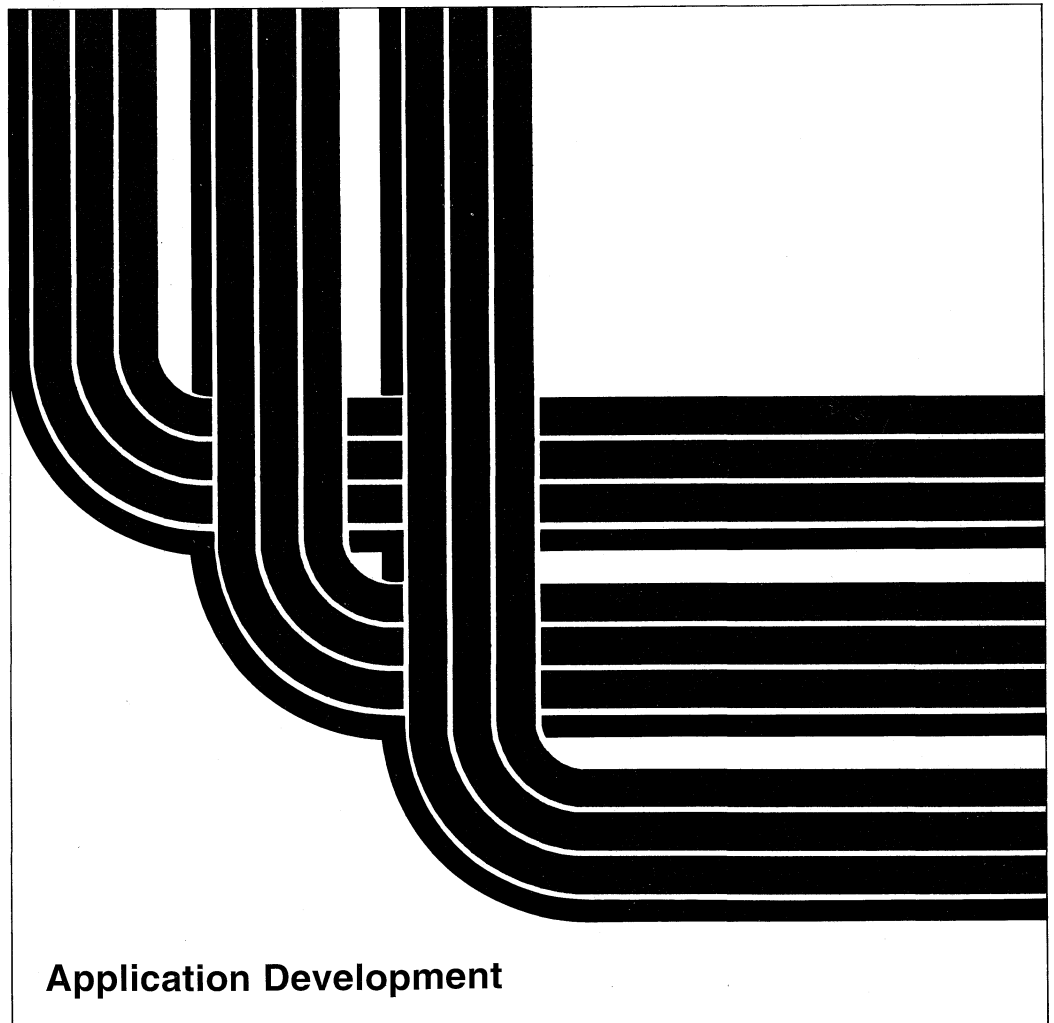IBM Application System/400

**Application Development Tools:
Source Entry Utility
User's Guide and Reference**

Version 2 Release 2

Application Development

IBM

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Contents

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Changes or additions to the text are indicated by a vertical line (|) to the left of the change or addition.

Refer to the "Summary of Changes" on page xiii for a summary of changes made to the Source Entry Utility and how they are described in this publication.

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About This Manual

This manual contains exercises and reference information to help you learn how to use the Source Entry Utility (SEU).

This manual contains information on:

- Starting an SEU session

- Creating, editing, browsing, and saving members using line commands, SEU commands, and the SEU displays

- Using prompts and format lines to create your own prompt

- Using the System/36 and System/38 environments, and double-byte character strings.

This manual also contains examples of creating and changing a source member.

This manual does not describe all of the functions of SEU.

You may need to refer to other IBM manuals for more specific information about a particular topic. The *Publications Guide*, GC41-9678, provides information on all the manuals in the AS/400 library.

For a list of related publications, see the "Bibliography" on page 225.

Who Should Use This Manual

This manual is intended for application programmers and system programmers who work in an AS/400 environment. To use this manual effectively, you must know how to use your workstation, understand and use messages, and have a general knowledge of the AS/400 system.

If you are unfamiliar with your workstation, refer to the specific manual for it. If you are unfamiliar with the AS/400 system, use the *System Operator's Guide*, SC41-8082.

Summary of Changes

The following enhancements have been made to SEU:

- The CICSCBL, CICSSQLCBL, CICSMAP, and MENU member types are supported by SEU. The CICSCBL members are COBOL members that contain CICS/400* calls. The CICSSQLCBL members are COBOL members that contain both SQL and CICS/400 calls. For information on prompting of the CICSSQLCBL members, see "Example: Using Prompts for Embedded SQL Statements" on page 85. The CICSMAP members contain the source for free-format CICS maps. The MENU members contain the UIM source for menus.

- The Change Session Defaults display has two new fields. You use the *Resequence member default* field to specify how the resequence member value defaults. You use the *Default to uppercase input for this source type* field to specify how a member type is displayed for an edit session. For more information, see "Using the Change Session Defaults Display" on page 35.

- The HIDE command has been added so that you can hide records that contain a string that you specify. For more information, see "Hiding Records on the Display" on page 111.

- If you use F16 = Find to begin a search, you do not have to type either F or FIND on the command line. For more information, see "FIND" on page 112.

- The RPG II (H) Control Specifications display has a new field, *Subprogram*, that you can use to indicate whether a program is a subprogram.

- The DATFMT and DATSEP keywords are supported so that you can print the list date format with the current job values.

- The TIMFMT keyword is supported so that you can specify the format of a TIME field.

- The ALWNULL keyword is supported so that a field can contain a null value.

- The VARLEN keyword is supported so that you can specify variable-length fields.

- The following data types are now supported:
  - L to indicate Date data
  - G to indicate DBCS-graphic data
  - T to indicate Time data
  - Z to indicate a Timestamp.

- The date on a source member listing is in the format specified by the job date format and date separator values. Previously, the date was printed in a fixed MM/DD/YY format.

- You can use SEU on the following DBCS-capable work stations:
  - 5555-G01
  - 5555-G02.

Chapter 1. Introducing the Source Entry Utility

The Source Entry Utility (SEU) is a full screen editor that you use to create and update source file members. This chapter discusses the specific functions you can perform with SEU and describes how to use the displays and function keys.

Features of SEU

You use SEU to create new source members, or list, edit, browse, print, or delete the existing members in a source physical file. When you start an edit session with SEU, you can:

- Insert new records
- Change existing records
- Delete records
- Move records from one point to another within a member
- Find a specified character string in the member.

In addition, you can use other features to create and edit source members, such as SEU commands, options displays, line commands, prompts and format lines, split session editing and browsing, syntax checking, and selection lists.

SEU Commands

You use SEU commands to work with members without leaving your SEU work screen. With the SEU FIND and CHANGE commands you can search for and change a specific string of characters. With the SEU SAVE, FILE, and CANCEL commands you can save, file, and cancel your changes to a member. With the SEU TOP and BOTTOM commands, you can position your source quickly. With the SEU HIDE command, you can hide records that contain a specific string on the display. With the SEU SET command, you can tailor your:

- Edit session by setting, for example, the amount to move on the display and what tabs to use

- Find function by setting the type of case to match in a search string

- Change function by setting whether the data should shift when a string is replaced.

The F21 = System command key displays a window in which you can enter system commands.

See Chapter 6, "Using SEU Commands" on page 105 for more information.

Options Displays

You can use options displays to control the SEU environment and to perform operations on file members and spooled files. You can request them by using the function keys. Each one of these displays prompts you for the information required to do a specific operation. The following options displays are used frequently in SEU:

- Change Session Defaults

  Use the Change Session Defaults display to specify the characteristics of your SEU edit or browse session, such as how much of the display the Page

Up and Page Down keys move, if input is in uppercase only, how records are assigned sequence numbers, or if syntax checking is performed. For more information, see "Using the Change Session Defaults Display" on page 35.

- Browse/Copy Options

  Use the Browse/Copy Options display while editing a member to look at another member or spooled file, to copy another member or spooled file into the member you are editing, or to copy specific records from another member or spooled file into the member you are editing. For more information, see "Browsing or Copying Another Member" on page 55.

- Find/Change Options

  Use the Find/Change Options display to search for a specified string in some or all records, change a specified string in some or all records, or to search for records that contain syntax errors. For more information, see "Using the Find/Change Options Display" on page 48.

Line Commands

You use line commands to insert, delete, copy, move, or prompt for records. You type the line commands on the sequence number of the records you want to work with. For more information, see Chapter 5, "Using Line Commands" on page 65.

Prompts and Format Lines

You can use SEU to create error-free records by specifying that SEU prompt you for data one field at a time, or that SEU display a format line directly above the record you are typing. SEU provides predefined prompts and format lines for high-level-language (HLL) and Application System/400* (AS/400*) control language (CL) commands. You can also define prompts for your own applications. When you use SEU prompts in full screen mode, the prompts are displayed in an abbreviated form. This allows you to see more edit lines while prompting. For more information, see Chapter 10, "Using Prompts and Format Lines" on page 151.

Split Session Editing and Browsing

You can split the Edit or Browse display into two parts, so that one member can be edited and another displayed (or two members displayed) on the work screen at the same time. You can use this feature with the Browse/Copy Options display to copy records from one of the members shown on the display into another member that you are editing. For more information, see Chapter 8, "Splitting the Edit and Browse Displays" on page 139.

Syntax Checking

You can use SEU to perform the syntax checking of source statements for several high level languages, including BASIC, PL/I, COBOL, FORTRAN, and RPG, as well as AS/400 CL programs. For more information, see "Using Syntax Checking" on page 43.

Member List

The member list shows all members in a specified file. Use the list to select a member to edit, browse, print, or delete. For more information, see Chapter 3, "Working with the Member List" on page 17.

File List

The file list shows all files in a specified library. Use the list to select a file with members that you want to edit, browse, print, or delete. For more information, see "Selecting Another File" on page 60.

Spooled File List

The spooled file list shows all spooled files for a specified user. Use the list to select a spooled file that you want to browse or copy. For more information, see "Selecting a Spooled File" on page 61.

User List

The user list shows all user IDs under which a job was run. Use the list to select the user ID from which you want to browse or copy a job. For more information, see "Selecting Another User" on page 63.

Using SEU

The following describes how you use SEU:

- Start an SEU session with the Start SEU (STRSEU) command, the Programmer menu, or the Programming Development Manager (PDM). For more information, see Chapter 2, "Starting the Source Entry Utility" on page 9.

- Specify a new member to create or select an existing member to edit, print, browse, or delete by using the Work with Members Using SEU display. For more information, see Chapter 3, "Working with the Member List" on page 17.

- Edit a new or existing member by using the Edit display, SEU commands, line commands, and associated options displays. Use the Edit display to perform frequently used operations such as deleting, copying, moving, or inserting records. Use SEU commands to perform operations such as finding and changing character strings, saving a member, or setting the tabs on. Use the options displays to perform less frequently used operations such as syntax checking the whole member, requesting a split session, or looking at an output queue. You can request these operations by specifying line commands on the display, by entering SEU commands, or by pressing a positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right. For more information, see Chapter 4, "Editing Members" on page 25, Chapter 5, "Using Line Commands" on page 65, and Chapter 6, "Using SEU Commands" on page 105.

  The following is a list of some of the options available in an SEU session:

  - Request SEU to display a high-level-language (HLL) prompt or a command prompt to help you create or change records in a source member, one field at a time. For more information, see "Using Command Prompts" on page 151 and "Using High-Level-Language Prompts" on page 152.

- Request SEU to display a format line to help you verify the positioning of data within high-level-language source statements. For more information, see "Using Format Lines" on page 156.

- Request SEU to remove the format line and function keys from the SEU work screen. This provides you with four additional edit or browse lines on your display. For more information, see "Using Full Screen Mode on the Edit Display" on page 42 and "Using Full Screen Mode on a Browse Display" on page 128.

- Look at a member without making changes to it from the Browse display. Look at additional members, perform find operations, or browse an output queue by using the options displays. For more information, see Chapter 7, "Browsing Members" on page 123.

- Split the Edit display to browse another source or physical file member or a spooled file, or copy records from a source or physical file member or a spooled file into the member you are editing. Split the Browse display to look at another source or physical file member or a spooled file. For more information, see Chapter 8, "Splitting the Edit and Browse Displays" on page 139.

• Complete your editing session by entering an SEU command or by using the Exit display. You can save the changes to the member, ignore the updates and leave the member unchanged, return to the member list, create a new member, print the member, return to the editing session, log OCL statements (System/36 source or procedure members), cancel a Programming Development Manager (PDM) Find string operation (Option 25 (Find string) on the Work with Objects Using PDM display), or exit from SEU. For more information, see Chapter 9, "Exiting from SEU" on page 147.

The SEU commands and the displays are discussed in detail in the following chapters. Figure 131 on page 121 gives a summary of the SEU commands.

Function Keys for SEU Displays

Each SEU display supports a set of function keys that you use to perform specific tasks. For example, you can press F12 = Cancel to access the display you worked on previous to the current display. The keys are listed at the bottom of each display. If F24 = More keys is shown, press this key to see additional function keys for the display.

Note: Generally, a function key is valid on a specific display only if it is listed at the bottom of the display. If you are using SEU in full screen mode, the full set of function keys for that display are operable, even though they are not shown. For more information, see "Using Full Screen Mode on the Edit Display" on page 42.

Figure 1 on page 5 gives a brief description of all the function keys available for SEU.

Figure 1 (Page 1 of 3). Description of SEU Function Keys

Function Key	Name of Function Key	Description
F1/Help	Help	Provides information about the display.
F3	Exit	Exits from SEU. On the Exit display you can save the member you have edited or created. Valid from the Edit or Browse display.
	Exit	Returns the Edit or Browse display. Valid from any options display called from an Edit, Browse, or split display.
F4	Prompt	Displays a prompt for a record or command, or presents a selection list display. Prompting for a command is valid only from the system command window and may call a command menu depending on the member type. Valid also in specific prompts on the Browse/Copy Options, Browse Options, and Exit displays.
F5	Refresh	Resets the values on the display to the values that were on it after you last pressed Enter or when the display was first shown.
F6	Move the split line	Splits the display at the cursor position. Valid only on split displays.
F9	Retrieve	Retrieves the last command you entered. Valid only on the Edit, Browse, and split displays.
F10	Save	Saves a user-defined prompt. Valid only from User-Defined Prompt displays.
	Cursor	Moves the cursor from the data area to the SEU command line on the work screen. Press F10 again to move the cursor back to the data area.
F11	Display prompt	Shows the prompt you are defining. Valid only on User-Defined Prompt displays.
	Previous record	Places the previous record in a prompt. Valid only when you are using a prompt.
F12	Cancel	Cancels the operation and returns the previous display. For example:
		• Returns the Edit, split, or options display from which you called the Exit display
		• Returns the Edit or Browse display from which you called the options display
		• Returns the Edit or Browse display from which you started a split session.
F13	Change session defaults	Calls the Change Session Defaults display.
F14	Display date/type	Shows the date or type for the member list. Valid only from the Work with Members Using SEU display and the Select Member Using SEU display.

Figure 1 (Page 2 of 3). Description of SEU Function Keys

Function Key	Name of Function Key	Description
	Find/Change options	Calls the Find/Change Options display. Valid only from the Edit display and from the top edit session of a split display.
	Find options	Calls the Find Options display. Valid only from the Browse or split Browse/Browse display, or the bottom browse session of a split Edit/Browse display.
F15	Sort by date/name	Sorts the member list by date or name. Valid only from the Work with Members Using SEU display and the Select Member Using SEU display.
	Browse/Copy options	Calls the Browse/Copy Options display. Valid only from the Edit display or a split Edit/Browse display.
	Browse options	Calls the Browse Options display. Valid only from the Browse display or a split Browse display.
F16	Find	Performs a find operation. Valid only from the Find/Change Options or Find Options displays. See "Performing Find and Change Operations" on page 47 for more information.
	Repeat find	Repeats a find operation. See "Performing Find and Change Operations" on page 47 for more information.
F17	Change	Performs a change operation. Valid only from the Find/Change Options display. See "Performing Find and Change Operations" on page 47 for more information.
	Repeat change	Repeats a change operation. See "Performing Find and Change Operations" on page 47 for more information.
	Subset	Shows a partial member list. Valid only on the Work with Members Using SEU display.
	Top	Shows the first set of spooled files. Valid only from the Select Spooled File Using SEU display.
F18	Bottom	Shows the last set of spooled files. Valid only from the Select Spooled File Using SEU display.
	DBCS conversion	Only used with double-byte character strings. See Appendix C, "Working with Double-Byte Character Sets" on page 209 for more information.
F19	Left	Positions the records to the left.
F20	Right	Positions the records to the right.
F21	System command	Displays a window in which you enter a system command. Valid only from Edit, Browse and split displays. The displayed window is not valid for S/38 commands.

Figure 1 (Page 3 of 3). Description of SEU Function Keys

Function Key	Name of Function Key	Description
F23	Select prompt	Press this key to select a prompt from the Select Prompt display. After you select a prompt, SEU returns the edit session and displays the prompt.
	Select user prompt	Calls the Select User-Defined Prompt display. Valid only from the Select Prompt Display.
F24	More keys	Lists additional function keys at the bottom of the display.
Clear	Clear	Performs a partial refresh on the display.
Del	Delete	Deletes the characters above the cursor and shifts all characters to the right of the cursor one position to the left. Nulls (hex 00, which are shown as blanks) are inserted at the end of the field as the characters are shifted. SEU provides these nulls at the end of each line.
Dup	Duplicate	Duplicates information from the same field of the previous record. Valid only when using a prompt.
Enter	Enter	Processes commands or data you have typed in the display. Ends a browse session if no commands are entered on the work screen.
Home	Home	Returns the cursor to the home position. If the cursor is not on the SEU command line, press this key a second time to move the cursor from the home position to the SEU command line. This key is valid on Edit, Browse and split displays. On split displays, this key is session dependent.
Page Up	Page Up (Roll Down)	Press Page Up to see the previous records on the display. If the cursor is on the message line, SEU shows the previous message.
Page Down	Page Down (Roll Up)	Press Page Down to see subsequent records on the display. If the cursor is on the message line, SEU shows the next message.
Print	Print	Prints the current display to the default printer device file.
SysReq	System Request	Interrupts the job you are currently working on and shows a menu from which you can do various tasks.

You can find detailed information on function keys in the online help information for the AS/400 system. If you place the cursor on the function keys section of any display and press Help, detailed information for the available function keys on the display appears.

Source Member Size and Security

SEU allows a maximum number of 32 764 records in a source member. The maximum record length SEU allows is 240 characters, which includes 6 characters for the sequence number and 6 characters for the date.

Figure 2 shows the minimum authority you need for a file before you can perform SEU operations on a file member. To add a member to a file, you require add authority for the library containing the file.

Figure 2. Authority Required to Perform SEU Operations							
	Object Authority			**Data Authority**			
Operation	**Object Operational Authority**	**Object Management Authority**	**Object Existence Authority**	**Read**	**Add**	**Update**	**Delete**
Edit a member	X	X		X	X		X
Browse a member	X			X			
Add a member	X	X		X	X		X
Remove a member	X		X	X			
Revise type or text of member	X	X		X			

For some SEU functions, you also require the authority to use CL commands such as Work with Output Queue (WRKOUTQ), Create Physical File (CRTPF), or Work with Spooled Files (WRKSPLF). If you change or replace the IBM*-supplied version of these commands, specify the values *INTERACT and *EXEC for the new version on the ALLOW parameter of the Create Command (CRTCMD) or Change Command (CHGCMD) commands.

For further information on object authority, see the *Security Reference* manual.

Chapter 2. Starting the Source Entry Utility

This chapter describes how to start an SEU session by using the Start SEU (STRSEU) command, the Work with Members Using PDM display in the Programming Development Manager (PDM), or the Programmer menu.

Using the STRSEU (Start Source Entry Utility) Command

Figure 3 shows the syntax for the STRSEU command. A description of the STRSEU command follows Figure 3.

```
                                              Job: I  Pgm: I  REXX: I  Exec
►►──STRSEU──────────────────────────────────────────────────────────────►
              ┌─*PRV────────────────────────────────┐
              │ ┌─*LIBL/──────┐                      │
         └─SRCFILE──(──┼─────────────┼──source-file-name──)─┘
                       ├─*CURLIB/────┤
                       └─library-name/─┘

►────────────────────────────────────────────────────────────────────────►
           ┌─*PRV─────────────────────┐        ┌─*SAME─┐
           ├─*SELECT──────────────────┤   └─TYPE──(──┼─type──┼──)─┘
      └─SRCMBR──(──┴─source-file-member-name──)─┘

►────────────────────────────────────────────────────────────────────◄
           ┌─*BLANK─┐          ┌─*BLANK────────┐
      └─OPTION──(──┼─2──────┼──)─┘  └─TEXT──(──┴─'description'─┴──)─┘
           ├─5──────┤
           └─6──────┘
```
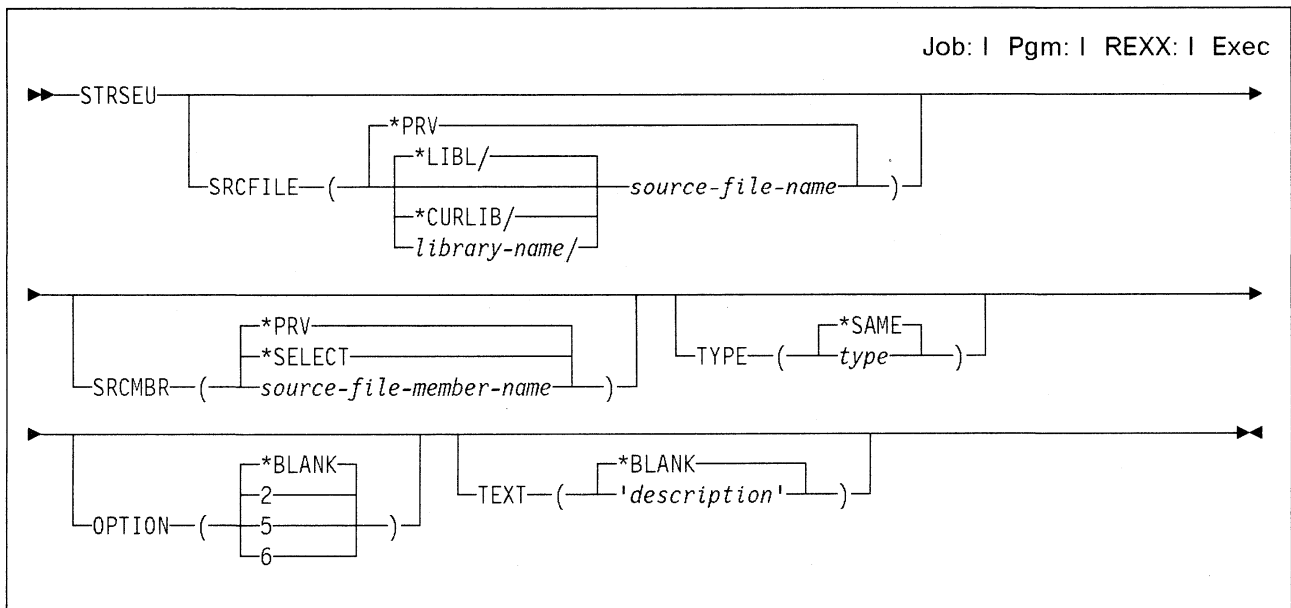
Figure 3. STRSEU (Start SEU) Command

Purpose

The STRSEU command allows the user to create, change, show, or print a source member.

The STRSEU command can be used to create a source member, but it cannot create a source file that contains source members. Use the Create Source Physical File (CRTSRCPF) command to create a source file. If the user does not have a library for the source file, use the Create Library (CRTLIB) command to create one.

Optional Parameters
SRCFILE

Specifies the qualified name of the source physical file that contains the member being edited or created.

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*PRV: The previously specified qualified source physical file name is used.

The possible library values are:

*LIBL: The library list is used to locate the source file.

*CURLIB: The current library for the job is used to locate the source file. If no library is specified as the current library for the job, the QGPL library is used.

library-name: Specify the name of the library where the source file is located.

source-file-name: Specify the name of an existing source physical file.

SRCMBR

Specifies the names of the source physical file members being edited or created. The default value for this parameter depends on whether the SRCFILE parameter is specified.

*PRV: The previously specified source member name is used. This is the default value if *PRV is specified for the SRCFILE parameter.

*SELECT: The SEU shows a list of members from which the user selects one to edit, show, print, or delete. This is the default value if a value other than *PRV is specified for the SRCFILE parameter.

source-file-member-name: Specify the name of the source physical file member being created or edited.

TYPE

Specifies the type of source physical file member being edited or created.

*SAME: For members that already exist, this value indicates that the member type does not change. For members being created, this value indicates that the member type is assigned the default associated with the name of the source physical file. The default member types for specific source file names are shown in Figure 6 on page 12.

type: Specify the type of source physical file member to edit. This can be any combination of up to 10 characters, or one of the following types supported by the SEU:

- AS/400 types: BAS, BASP, C, CBL, CICSCBL, CICSMAP, CICSSQLCBL, CL, CLD, CLP, CMD, DFU, DSPF, FTN, ICFF, LF, MENU, MNU, MNUCMD, MNUDDS, PAS, PF, PLI, PNLGRP, PRTF, QRY, REXX, RMC, RPG, RPT, SPADCT, SQLC, SQLCBL, SQLFTN, SQLPLI, SQLRPG, TBL, or TXT.

- System/38 types: BAS38, BASP38, BSCF38, CBL38, CL38, CLP38, CMD38, CMNF38, DFU38, DSPF38, LF38, MXDF38, PF38, PLI38, PRTF38, QRY38, RPG38, RPT38, or TXT38.

- System/36 types ARS36, ASM36, BAS36, BASP36, BGC36, BGD36, BGF36, CBL36, DFU36, DSPF36, DTA36, FOR36, MNU36, MSGF36, OCL36, PHL36, RPG36, RPT36, SRT36, TXT36, UNS36, or WSU36.

OPTION

Specifies the function to perform on the selected member. The default value depends on whether the member name is specified.

*BLANK: This is the default value if a member name is not specified. *BLANK specifies no action; instead, a member list is shown from which the user can specify one of the following options:

2: A member is to be edited (Option 2 is the default value if a member name is specified)

5: A member is to be displayed

6: A member is to be printed.

TEXT

Specifies text that describes the member. This text is stored in the text field for the member. For an expanded description of this parameter, see the *CL Reference*.

*BLANK: This is the default for a new member. This value directs the SEU to specify blanks in the text field of the member. For an existing member, this value does not change the text field of the member.

'description': Specify no more than 50 characters of text, enclosed in apostrophes.

Example

```
STRSEU  SRCFILE(QGPL/FILE1)  SRCMBR(TELEDIR)
TYPE(CLP)  TEXT('CL program to create office
telephone directory')
```

This command starts SEU by using the source member TELEDIR in source file FILE1, which is located in the QGPL library. The TYPE(CLP) parameter indicates that this member is the source for a CL program. The TEXT parameter supplies a description of the member.

The default for the OPTION parameter (2 - edit a member) is used. If the member exists, SEU starts an Edit session for the member. If the member does not exist, SEU creates a member with the name, type and text specified in the command, and starts an Edit session for the member.

Note: The STRSEU command can create a source member but it cannot create a source file used to contain the source member. Use the Create Library (CRTLIB) command to create a library for the source files, and use the Create Source Physical File (CRTSRCPF) command to create a source file.

The initial default source file is QTXTSRC. For information about creating source files and libraries, see the *CL Reference*.

Default Values for the STRSEU Command

The default values for the source file, library, and member are interdependent. If you do not specify the SRCFILE parameter or the SRCMBR parameter when you call SEU, SEU uses the default values, as shown in Figure 4 on page 12.

Figure 4. Defaults for File, Library, and Member Parameters

File Is Specified?	Library Is Specified?	Member Is Specified?	Default for File	Default for Library	Default for Member
Yes	Yes	Yes	Supplied	Supplied	Supplied
Yes	Yes	No	Supplied	Supplied	*SELECT
Yes	No	Yes	Supplied	*PRV	Supplied
Yes	No	No	Supplied	*PRV	*SELECT
No	Yes	Yes	*PRV	Supplied	Supplied
No	Yes	No	*PRV	Supplied	*SELECT
No	No	Yes	*PRV	*PRV	Supplied
No	No	No	*PRV	*PRV	*PRV

The default for the TYPE and OPTION parameters depends on whether or not you specify a member name. Figure 5 shows the defaults SEU uses if you do not specify TYPE or OPTION.

Figure 5. Defaults for Type and Option Parameters

Member Is Specified?	Type Is Specified?	Option Is Specified?	Default for Type	Default for Option
Yes	Yes	Yes	Supplied	Supplied
Yes	Yes	No	Supplied	2 (Edit)
Yes	No	Yes	*SAME	Supplied
Yes	No	No	*SAME	2 (Edit)
No	Yes	Yes	Supplied	Supplied
No	Yes	No	Supplied	*BLANK
No	No	Yes	*SAME	Supplied
No	No	No	Supplied	*BLANK

When you create a new member, the default for the TYPE parameter depends on the name of the source file in which the new member is located. Figure 6 shows the default values for new members based on the source file names.

Figure 6 (Page 1 of 2). Defaults for Member Types When New Members Are Created

Source File Name	Default for Type
QBASSRC	BAS
QCBLSRC	CBL
QCLSRC	CLP
QCMDSRC	CMD
QCSRC	C
QDDSSRC	PF
QFTNSRC	FTN
QMAPSRC	CICSMAP
QMENUSRC	MNUDDS
QMNUSRC	MENU
QPASSRC	PAS

Source File Name	Default for Type
QPLISRC	PLI
QPNLSRC	PNLGRP
QRMCSRC	RMC
QREXSRC	REXX
QRPGSRC	RPG
QS36PRC	OCL36
QS36SRC	UNS36
QTBLSRC	TBL
QTXTSRC	TXT
QUDSSRC	QRY38
All Others	TXT

Entering the STRSEU Command

All commands are entered either on the Command Entry display, or on a command line. You can:

- Type the entire STRSEU command with parameters
- Type the name of the command and press F4 = Prompt to request a prompt.

Using the STRSEU Command with Parameters

If you know all the parameters and values for the STRSEU command, type the complete command on the Command Entry display as follows:

```
STRSEU SRCFILE(LIBRNAME01/FILENAME01) SRCMBR(MEMBNAME05) TYPE(TXT)
OPTION(2) TEXT('Customer data file for mailing list')
```

Press Enter to process the command.

If you specify the values in the correct order, you do not have to type the names of the first four parameters. You can type the STRSEU command as follows:

```
STRSEU LIBRNAME01/FILENAME01 MEMBNAME05 TXT 2
TEXT('Customer data file for mailing list')
```

This is called positional coding and is described in detail in the *CL Reference*. For more information on the Command Entry display, view the online help information for the display.

Using Command Prompts

You can use command prompts to enter the parameters for the STRSEU command. After typing only the STRSEU command name, or after typing the command name and some parameter values, press F4 = Prompt. The Start Source Entry Utility (STRSEU) display appears as shown in Figure 7 on page 14.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                     Start Source Entry Utility (STRSEU)                   │
│                                                                           │
│  Type choices, press Enter.                                               │
│                                                                           │
│  Source file  . . . . . . . . . .    *PRV_____    Name, *PRV             │
│     Library . . . . . . . . . . .    _____    Name, *LIBL, *CURLIB, *PRV │
│  Source member  . . . . . . . . .    *PRV_____    Name, *PRV, *SELECT     │
│  Source type  . . . . . . . . . .    *SAME_____    Name, *SAME, BAS, BASP, C... │
│  Option . . . . . . . . . . . . .    *BLANK____    *BLANK, ' ', 2, 5, 6    │
│  Text 'description' . . . . . . .    *BLANK_____ │
│  _____                                                                   │
│                                                                           │
│                                                                           │
│                                                                           │
│                                                                           │
│                                                                           │
│                                                                    Bottom │
│  F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel    F13=How to use this display │
│  F24=More keys                                                            │
└─────────────────────────────────────────────────────────────────────────┘
```
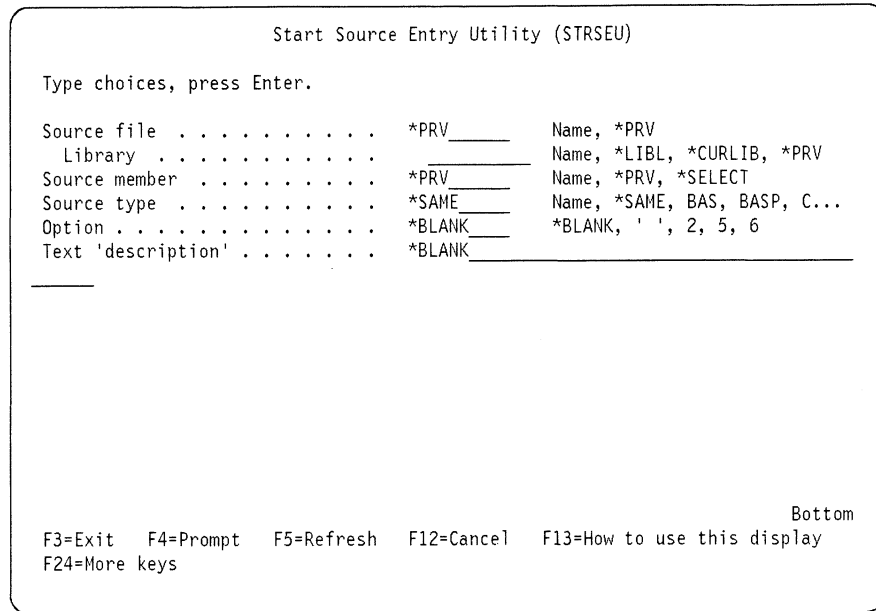
Figure 7. Start Source Entry Utility (STRSEU) Display

This display lists the parameters and supplies the default values. Press Enter to accept the default values, or type values for the parameters and press Enter to process the command.

Other Ways to Begin SEU

In addition to using the Command Entry display and command prompt, you can request an SEU session from the Programming Development Manager (PDM) or from the Programmer menu.

Using the Work with Members Using PDM Display

From the Programming Development Manager (PDM), select option 2 (Edit) or option 5 (Display) on the Work with Members Using PDM display for PDM.

For an example of using the Work With Members Using PDM display, see "Example 2: Changing a Source Member" on page 191.

Using the Programmer Menu

From the Programmer menu, select option 5 (Run a command) or option 8 (Edit a source file member) to request an SEU session.

Preparing the Work Space

After you enter the STRSEU command to edit or browse a member, SEU must prepare the work space before you can begin to work with the member. The work space holds a copy of the member you are working on, so the original member remains unchanged until you decide to save any changes you make. The Load SEU Work Space display appears to confirm the operation (you may not see the display if the member is loaded quickly). The display is shown in Figure 8 on page 15 for member MEMBNAME05.

```
                    Member . . . . . :   MEMBNAME05

                    File . . . . . . :   FILENAME01
                      Library  . . . :     LIBRNAME01

         This member is now being copied into the work space for SEU.
```
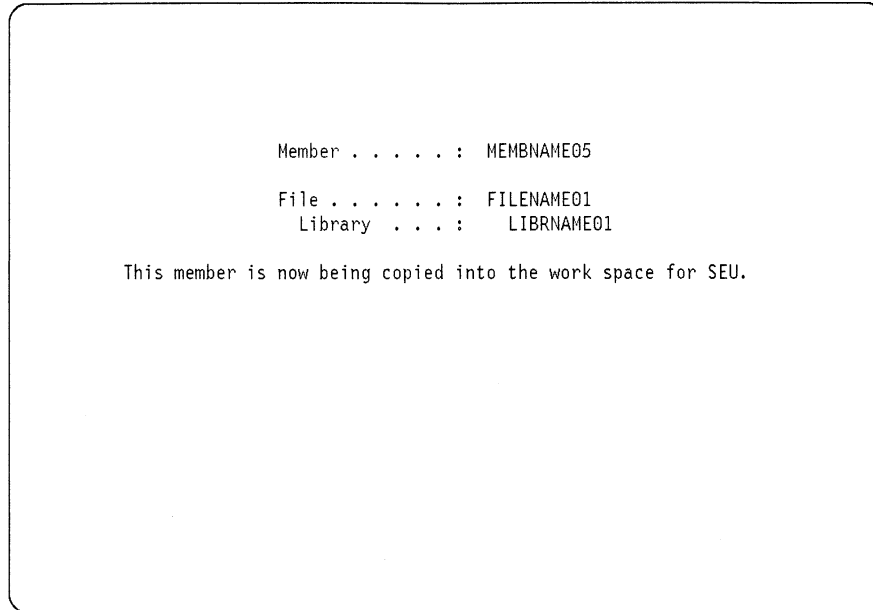
Figure 8. Load SEU Work Space Display

The display shows the name of the member that SEU is copying into the work space, and the name of the file and library that contain the member.

The work space copy allows SEU to recover changes from sessions that ended abnormally. See Appendix D, "Recovering from Errors" on page 217, for information on the recovery process.

Chapter 3. Working with the Member List

This chapter describes how to:

- Select a member to work with or create a new member by using the Work with Members Using SEU display
- Delete members by using the Confirm Delete of Members display
- Change the member list by using the Subset Member List display.

Selecting a Member

You can create a member or select a member to work with from the Work with Members Using SEU display, which lists all members alphabetically in a file.

The Work with Members Using SEU display appears when you start AS/400 SEU and do one of the following:

- Specify the value *SELECT for the SRCMBR parameter
- Specify a source file for the SRCFILE parameter but do not specify a member for the SRCMBR parameter
- Enter the STRSEU command without any parameters if the Work with Members Using SEU display was chosen in the previous session.

You can also request the Work with Members Using SEU display from the Exit display. On the Exit display, type Y (Yes) for the *Go to member list* field to access the Work with Members Using SEU display for the file you are editing, and press Enter. The Exit display is described in detail in Chapter 9, "Exiting from SEU" on page 147.

Figure 9 on page 18 shows how to access the Work with Members Using SEU display.
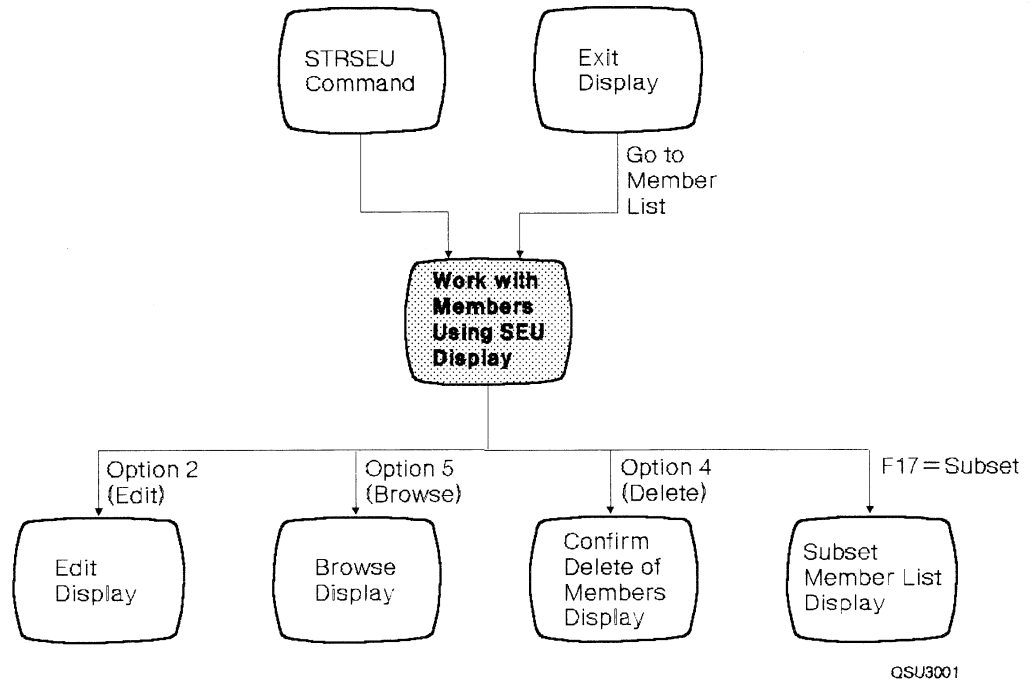
Figure 9. Accessing the Work with Members Using SEU Display

Using the Work with Members Using SEU Display

You can do the following on the Work with Members Using SEU display:

- Select a member to edit
- Select a member to delete
- Select a member to browse
- Select a member to print
- Specify the name of the member you want to create
- Revise the TYPE or TEXT parameter of a member
- Reposition the member list to a specific member
- List the last change date of the members
- Sort the members by the date when they were last updated
- Change the library name or source file name to show a new member list.

Figure 10 on page 19 is an example of the Work with Members Using SEU display. The display shown is for a source file with no members.

```
                    Work with Members Using SEU

Source file . . . . . .   FILENAME01          Library . . . . .   LIBRNAME01
Position to . . . . . . . . . . . . . . . . . . . . . . . . . .   _____
New member  . . . . . . . . . . . . . . . . . . . . . . . . . .   MEMBNAME05
   Type for new member . . . . . . . . . . . . . . . . . . . .    TXT_____
   Text  . . . . . . . . .   Customer data file for mailing list_____

Type options, press Enter.
   2=Edit      4=Delete       5=Browse       6=Print

Opt Member      Type        Text

   (No members in the file)




   F3=Exit         F5=Refresh     F12=Cancel       F14=Display date
   F15=Sort by date               F17=Subset
                                      (C) COPYRIGHT IBM CORP. 1981, 1992.
```

Figure 10. Work with Members Using SEU Display with No Members

Figure 11 and Figure 12 on page 20 are examples of the Work with Members
Using SEU display with existing members.

```
                    Work with Members Using SEU

Source file . . . . . .   FILENAME01          Library . . . . .   LIBRNAME01
Position to . . . . . . . . . . . . . . . . . . . . . . . . . .   _____
New member  . . . . . . . . . . . . . . . . . . . . . . . . . .   MEMBNAME05
   Type for new member . . . . . . . . . . . . . . . . . . . .    TXT_____
   Text  . . . . . . . . .   Customer data file for mailing list_____

Type options, press Enter.
   2=Edit      4=Delete       5=Browse       6=Print

Opt Member      Type        Text
 _ MEMBNAME01   TXT_____   Customer data file for mailing list_____
 _ MEMBNAME02   TXT_____   Customer data file for mailing list_____
 _ MEMBNAME03   TXT_____   Customer data file for mailing list_____
 _ MEMBNAME04   TXT_____   Customer data file for mailing list_____



                                                              Bottom
   F3=Exit         F5=Refresh     F12=Cancel       F14=Display date
   F15=Sort by date               F17=Subset
                                      (C) COPYRIGHT IBM CORP. 1981, 1992.
```

Figure 11. Work with Members Using SEU Display with Type Field Shown

The Work with Members Using SEU display in Figure 11 shows the *Type* field.
Press F14=Display date to switch to the *Date* field from the *Type* field, as shown
in Figure 12 on page 20.

```
                         Work with Members Using SEU

   Source file . . . . . .   FILENAME01            Library . . . . .  LIBRNAME01
   Position to . . . . . . . . . . . . . . . . . . . . . . . . . . . .  _____
   New member  . . . . . . . . . . . . . . . . . . . . . . . . . . . .  MEMBNAME05
     Type for new member . . . . . . . . . . . . . . . . . . . . . . .  TXT_____
     Text  . . . . . . . . .   Customer data file for mailing list_____


   Type options, press Enter.
      2=Edit      4=Delete      5=Browse        6=Print

   Opt Member .    Date        Text
    _  MEMBNAME01   09/10/92    Customer data file for mailing list_____
    _  MEMBNAME02   09/10/92    Customer data file for mailing list_____
    _  MEMBNAME03   09/10/92    Customer data file for mailing list_____
    _  MEMBNAME04   09/10/92    Customer data file for mailing list_____




                                                                      Bottom
    F3=Exit          F5=Refresh        F12=Cancel        F14=Display type
    F15=Sort by date                   F17=Subset
                                          (C) COPYRIGHT IBM CORP. 1981, 1992.
```

Figure 12. Work with Members Using SEU Display with Date Field Shown

The top part of this display contains information you enter for the source file and library name, and the information required to create a new member. The bottom part contains the list of members and specifies the list position (Bottom or More) in the bottom right-hand corner of the display.

The fields on the top part of the display are:

Source file. This field contains the source physical file name you specified with the STRSEU command. If you specify a new source file name, the display changes to show the member list for the new file.

Library. This field contains the library name you specified with the STRSEU command. If you specify a new library name, the display changes to show the member list for the file in the new library.

Position to. Specify a partial member name (when sorted by name) or date (when sorted by date) to reposition the list to that name or date. When you press Enter, the list is repositioned so that the specified name or date appears at the top and this field is cleared. You can specify another value for this field to reposition the list again. Two special values for this field are *BOT (to display the bottom of the list) and *TOP (to display the top of the list).

The list is sorted by member name by default. To sort by date, press F15 = Sort Date; SEU sorts the list by date and changes the *Position to* field to *Position to date.*

If the member or date specified is not found, SEU positions the list so that the closest previous member or date appears at the top.

New member. Specify a name to create a new member.

Type for new member. Specify the type for the new member. The type of the member determines the syntax checker used while editing.

Text. Specify text for the new member.

The fields on the bottom part of the display are:

Opt. Specify an operation to perform on a member. Specify 2 (Edit) to edit a member (you access the Edit display). Specify 4 (Delete) to delete a member (you access the Confirm Delete of Members display). Specify 5 (Browse) to browse a member (you access the Browse display). Specify 6 (Print) to print a member. If you specify 6 (Print), a message appears to confirm that the member has been sent to the print queue.

You can specify operations on more than one member at a time in the *Opt* field. For example, you can specify 4 (Delete) for one member in the list and 6 (Print) for another, and then press Enter to have SEU delete the one member and print the other.

Member. These fields contain the member name.

Type. These fields contain the type of the members.

Date. These fields contain the date the members were created or last changed.

Text. These fields contain up to 50 characters of text describing the members.

Processing the Work with Members Using SEU Display

SEU processes the Work with Members Using SEU display as follows:

1. When you press the Page Up or Page Down keys, or perform a reposition request, SEU begins processing by checking the display for errors.

   If errors exist, SEU highlights them and lists the appropriate error messages. If no errors occur, SEU processes the page or reposition request.

2. When you press Enter, SEU checks for errors. If no errors occur, SEU begins processing the options on the display.

   a. If you have changed the source file or library name, SEU checks for pending options in the list and for a new member name.

      If there are no pending options, or if a new member name has not been specified, SEU changes the list to show the members in the new source file or library. If there are pending options, or if a new member name is specified, SEU issues an error message.

   b. If you did not change the source file or library name, SEU checks the *Position to* field.

      If you specified a value for this field, SEU repositions the list as requested, then processes any options you specified.

   c. SEU begins processing all options on the display in the order they occur. When it finds a delete option, SEU shows the Confirm Delete of Members display. This display lists all members marked for deletion on the Work with Members Using SEU display. Confirm that each delete choice is correct, or return to the Work with Members Using SEU display to change your choices.

      If you confirm all delete choices, SEU returns the Work with Members Using SEU display and performs the delete choices. It then continues to process the remaining options on the display in the order they occur.

d. If you press F17 = Subset, SEU checks for pending operations in the member list. If there are pending operations, SEU issues an error message.

Deleting Members

You can delete members listed on the Work with Members Using SEU display by specifying option 4 (Delete), as shown in Figure 13.

```
                          Work with Members Using SEU

Source file . . . . . .   FILENAME01            Library . . . . .   LIBRNAME01
Position to . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
New member  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .   MEMBNAME05
   Type for new member . . . . . . . . . . . . . . . . . . . . . . . .   TXT_____
   Text  . . . . . . . .   _____

Type options, press Enter.
   2=Edit      4=Delete       5=Browse         6=Print

Opt Member       Date         Text
 _  MEMBNAME01   09/10/92     Customer data file for mailing list_____
 _  MEMBNAME02   09/10/92     Customer data file for mailing list_____
 4  MEMBNAME03   09/10/92     Customer data file for mailing list_____
 4  MEMBNAME04   09/10/92     Customer data file for mailing list_____
```

Figure 13. Work with Members Using SEU Display with Members Marked for Deletion

When you press Enter, the Confirm Delete of Members display appears.

Using the Confirm Delete of Members Display

The Confirm Delete of Members display lists all members you marked to be deleted on the Work with Members Using SEU display. Check this list to ensure that you are deleting the correct members.

Figure 14 on page 23 is an example of the Confirm Delete of Members display. In this example, members MEMBNAME03 and MEMBNAME04 are listed for deletion. When you press Enter, SEU deletes both members.

```
┌─────────────────────────────────────────────────────────────────────┐
│                       Confirm Delete of Members                       │
│                                                                       │
│   Source file . . . . . :   FILENAME01                                │
│     Library . . . . . . :     LIBRNAME01                              │
│                                                                       │
│   Press Enter to confirm your choices for 4=Delete.                   │
│   Press F12 to return to change your choices.                         │
│                                                                       │
│   Opt  Member       Type       Text                                   │
│    4   MEMBNAME03   TXT        Customer data file for mailing list     │
│    4   MEMBNAME04   TXT        Customer data file for mailing list     │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                Bottom │
│   F12=Cancel                                                          │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```
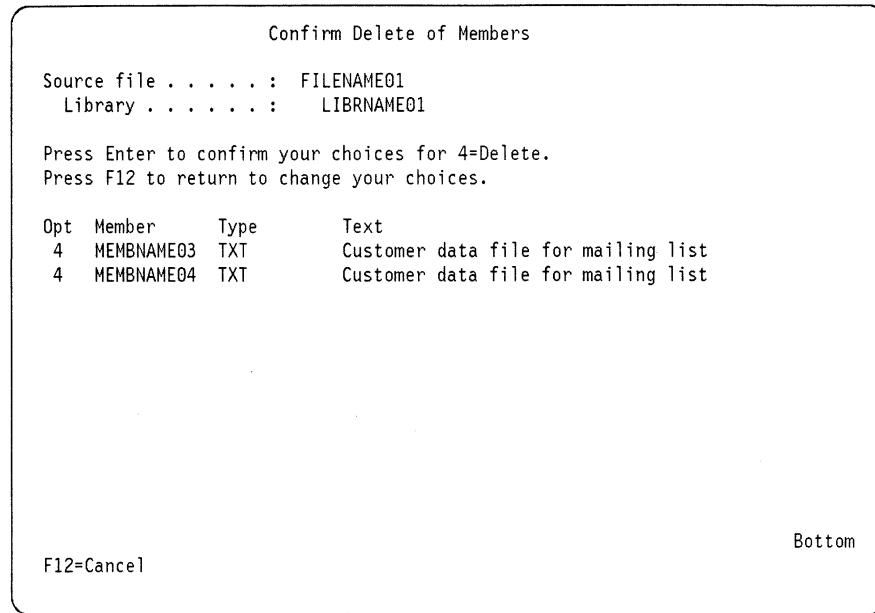
Figure 14. Confirm Delete of Members Display

Changing the Member List

You can change the member list that appears on the Work with Members Using SEU display so that only members that meet certain criteria are included in the member list. You can select or subset the list so that members match specific name, type, date, or text criteria. You change the member list by using the Subset Member List display. To access this display, press F17 = Subset on the Work with Members Using SEU display.

Using the Subset Member List Display

You use the Subset Member List display to change the list that appears on the Work with Members Using SEU display. You can change the list so it shows only members that have the same:

- Partial name
- Member type
- Date of creation or last change
- Text or partial text.

Figure 15 on page 24 is an example of the Subset Member List display.

```
                          Subset Member List

  Type choices, press Enter.

  Member . . . . . . . .   *ALL_____    *ALL, *generic*, name

  Member type  . . . . .   .*ALL_____   *ALL, *BLANK, type

  From date  . . . . . .   01/01/00    Earliest date to include

  To date  . . . . . . .   12/31/99    Latest date to include

  Text . . . . . . . . .   *ALL_____




  F5=Refresh   F12=Cancel
```

Figure 15. Subset Member List Display

The fields on the Subset Member List display are:

Member. Identify a particular or generic name to subset the list. For example:

Specify	To Show
ABC*	Only members that begin with ABC
*ABC	Only members that end with ABC
ABC	Only members that have ABC in their names
A*B	Only members that start with A and end with B
**ALL	Only members that end with ALL
*ALL	All members
"A*"	Only members that begin with A and are enclosed in quotation marks.

Member type. Specify any valid member type to show only members of that type. For example, specify RPG to show only members of type RPG, *BLANK to show members with no types, and *ALL to show all member types. See the TYPE parameter of the STRSEU command on page 11 for a list of AS/400 member types.

From date and *To date.* Specify the date of creation or last change for the members to be shown. You must use the system format for the date. For example, to show only members created or updated between July 1, 1992, and September 1, 1992, inclusive, type 07/01/92 in the *From date* field and 09/01/92 in the *To date* field.

Text. Specify a character string to be searched for in the *Text* field.

Chapter 4. Editing Members

This chapter describes the edit environment and how to:

- Use the Edit display

- Use the Screen Design Aid (SDA) to call SEU to edit DDS comments

- Change the edit session parameters using the Change Session Defaults display or the SEU SET command

- Perform find and change operations using the Find/Change Options display or SEU commands

- Use the Programming Development Manager (PDM) find string function

- Browse or copy additional members using the Browse/Copy Options display

- Select a member to copy or browse using the Select Member Using SEU display

- Select another file that contains members you want to copy or browse using the Select File Using SEU display

- Select a spooled file to copy or browse using the Select Spooled File Using SEU display

- Select another user from whom to copy or browse a spooled file using the Select User Using SEU display.

Using the Edit Display

Use the Edit display to add or change records in a new or existing member.

For existing members, you can do the following to access the Edit display:

- Specify 2 (Edit) for the OPTION parameter of the STRSEU command

- Specify 2 (Edit) on the *Opt* field on the Work with Members Using SEU display

- Specify 2 (Edit) on the Work with Members Using PDM display

- Specify 2 (Edit comments) on the Work with Display Records display in SDA.

For new members, you can do the following to access the Edit display:

- Specify the name of the member to be created for the SRCMBR parameter of the STRSEU command

- Specify the name of the member to be created on the *New member* field on the Work with Members Using SEU display.

Figure 16 on page 26 shows how to access the Edit display.
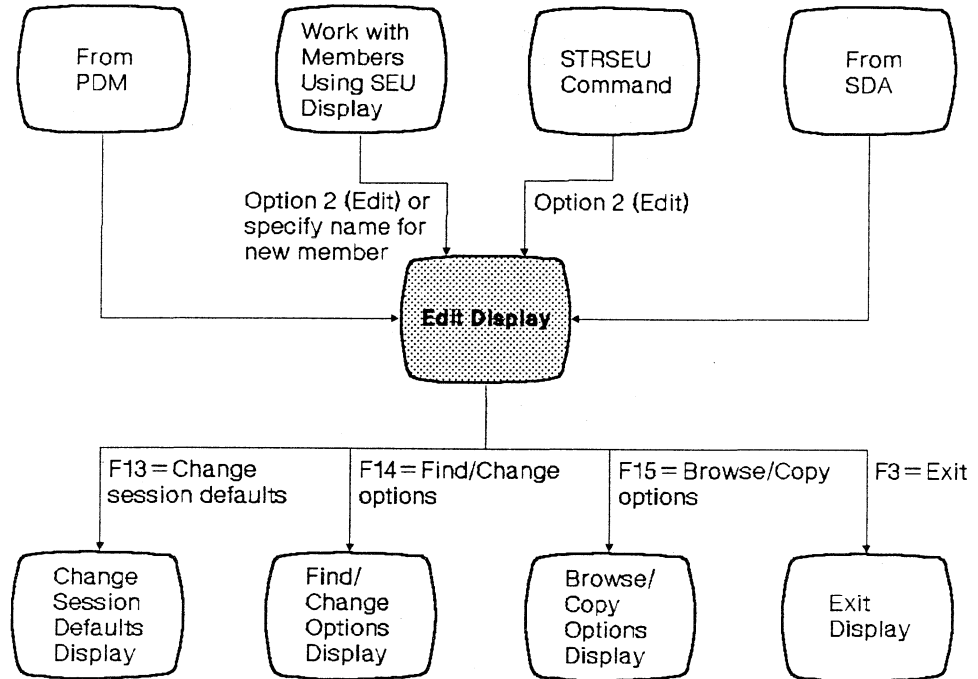
Figure 16. Accessing the Edit Display

With the Edit display, you can look at the records in a specific member or perform the following operations:

- Change the data in a record
- Shift the data in a record
- Copy a record to one or more places
- Move a record to one or more places
- Delete a record
- Insert a new record
- Exclude one or more records on the display
- Hide one or more records on the display
- Overlay nonblank data from one record onto another record
- Find a specified character string in the records
- Change a specified character string in the records
- Request a specific language or user-defined prompt
- Syntax-check records in a member
- Set tab positions for your edit session
- Set the case (upper or mixed) for data input
- Set the case match for the find string function
- Set the work screen to full screen mode
- Set the amount to roll the display.

You can perform these operations by using line commands, SEU commands, or options displays. Line commands are discussed in detail in Chapter 5, "Using Line Commands" on page 65. SEU commands are discussed later in this chapter and in detail in Chapter 6, "Using SEU Commands" on page 105. Options displays are discussed later in this chapter.

Figure 17 shows an example of the Edit display for a new member.

```
 Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
         *************** Beginning of data **********************************
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '

         ***************** End of data ***************************************
  F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find         F17=Repeat change         F24=More keys
 Member MEMBNAME01 added to file LIBRNAME01/FILENAME01.
```

Figure 17. Edit Display for New Member

Figure 18 shows an example of the Edit display for an existing member.

```
 Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
         *************** Beginning of data **********************************
 0001.00 This is the first record in the member.
 0002.00 This is record number 2.
 0003.00 This is record number 3.
 0004.00 This is record number 4.
 0005.00 This is record number 5.
 0006.00 This is record number 6.
 0007.00 This is record number 7.
 0008.00 This is record number 8.
 0009.00 This is record number 9.
 0010.00 This is record number 10.
 0011.00 This is record number 11.
 0012.00 This is record number 12.
 0013.00 This is record number 13.
 0014.00 This is record number 14.
 0015.00 This is record number 15.
 0016.00 This is the last record in the member.
         ***************** End of data ***************************************
  F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find         F17=Repeat change         F24=More keys
```

Figure 18. Edit Display for Existing Member

The Edit display consists of three main sections: the heading section, the edit
section, and the function key/message section.

The heading section consists of:

- Title line. The first line on the display contains the following fields:

  Columns. This field shows which columns of each source record are currently visible in the body of the display. The first number in this field is the number of the first column of the source record that is shown.

  Library name/File name, Record comment, File comment, or *Pending operation.* This field has one of three values: (1) the name of the library and source physical file, (2) the file comment or record comment if file-level or record comments are being edited from SDA, or (3) the pending operation.

  If you are not editing DDS comments and there are no pending operations, the first two lines of the display appear as shown in Figure 19.

```
 Columns . . . :   1  71          Edit           LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
```

Figure 19. Partial Edit Display with No Pending Operations

If you are editing DDS record comments from SDA, the first two lines of the display appear as shown in Figure 20.

```
 Columns . . . :   1  71          Edit                 Record comments
 SEU==> _____ CUSTMAINT
```

Figure 20. Partial Edit Display When Editing DDS Record Comments

If you are editing DDS file-level comments from SDA, the first two lines of the display appear as shown in Figure 21.

```
 Columns . . . :   1  71          Edit                   File comments
 SEU==> _____
```

Figure 21. Partial Edit Display When Editing DDS File Level Comments

If there are pending operations, the first two lines of the display appear as shown in Figure 22.

```
 Columns . . . :   1  71          Edit          Pending . . . . . . :   CC
 SEU==> _____
```

Figure 22. Partial Edit Display with Pending Operations

The *Pending* field contains the first incomplete line command, usually a Move (M), Copy (C), Copy Repeated (CR), block (MM or CC), or a target (A, B, O, or OO) command. See "Pending Operations" on page 101 for more information. If there is a pending operation, the message line may contain an error message.

- Command line, and Member name or Record Format name. The second line on the display contains the following fields:

  SEU===>. Enter an SEU command. To see help for an SEU command, type the command and press the Help key. SEU commands are fast paths to SEU functions such as the find/change options, edit and browse session defaults, and exiting. SEU commands are free format commands with required positional parameters and optional parameters that can be entered

in any order. SEU commands are discussed later in this chapter, in Chapter 6, "Using SEU Commands" on page 105, and in Chapter 9, "Exiting from SEU" on page 147.

Member name or Record Format name. This field has one of two values: (1) the name of the member you are editing, or (2) the record format name, if you are editing DDS record comments from SDA. This field is not shown if there is a pending operation.

- Format line. The third line on the display is a format line. For more information on the layout of format lines, see "Format and Insert-with-Format Commands" on page 87.

The edit section consists of:

- Source Lines. Line 5 to line 20 are the source lines. Each source line consists of two fields:

Sequence number. This field contains the sequence number (in the form *nnnn.nn*) that SEU provides when it sequences the records in the member. This field can also temporarily contain line commands. You can type line commands in this field to perform an operation on the record (such as M to move or C to copy), or to insert a special record.

Record. This field contains a record from the source member. You can change the current record by typing information over the old record.

The *Record* field can also contain special records. Special records exist only during the edit session and are not placed in your source member. Special records include:

- Beginning-of-data
- End-of-data
- Format
- Insert
- Columns
- Tabs
- Exclude.

Beginning-of-data and end-of-data lines are automatically shown to designate the beginning and end of a member. You cannot remove these special records.

You create format lines, set tabs, insert lines, or exclude lines by using line commands. You can delete these special records while in the edit session by pressing F5=Refresh.

Figure 23 shows an example of a partial member that contains several types of special records.

```
  Columns . . . :   1  71            Edit             LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
           *************** Beginning of data *********************************
  0001.00 The "Beginning of data" record above is a special record.
  0002.00 This record has sequence number 0002.00.
  - - - - ------------- 2 data records excluded --------------------------------
  0005.00 The "End of data" record below is a special record.
           ****************** End of data ************************************
```

Figure 23. Partial Edit Display with Special Records

The function key/message section consists of:

- List of function keys. Lines 22 and 23 list all the valid function keys for the display. Three sets of function keys are available for the Edit display. You can press any function key that appears in these three sets at any time while the Edit display is shown. The first set of function keys is shown in Figure 24.

```
F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
F16=Repeat find          F17=Repeat change          F24=More keys
```
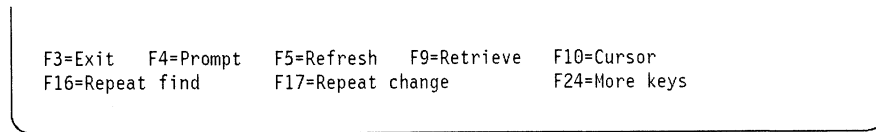
Figure 24. First Set of Function Keys for the Edit Display

From the display shown in Figure 24, press F24 = More keys to see the second set of function keys for the Edit display, shown in Figure 25.

```
F13=Change session defaults   F14=Find/Change options
F15=Browse/Copy options       F24=More keys
```
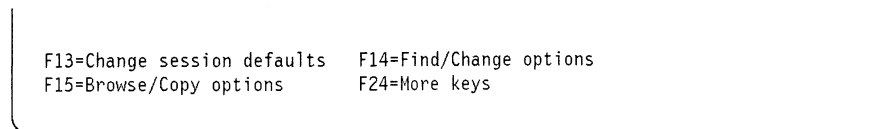
Figure 25. Second Set of Function Keys for the Edit Display

Press F24 = More keys a second time to see the third set of function keys for the Edit display, shown in Figure 26.

```
F19=Left    F20=Right    F21=System command
F23=Select prompt        F24=More keys
```
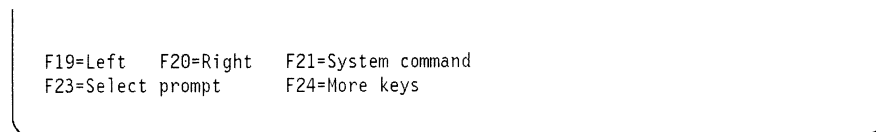
Figure 26. Third Set of Function Keys for the Edit Display

- Message line. Line 24 lists any error messages. A plus sign (+) in the bottom right-hand corner of the display indicates additional messages. Position the cursor on the message line and press Page Up or Page Down to look at the messages.

Processing the Edit Display

SEU processes the Edit display in the following order:

1. Processes Clear and Home operations: this removes all input typed in since the last key was pressed, and immediately shows the Edit display.

2. Refreshes the display (F5): this immediately shows the Edit display without a prompt, temporary lines, pending line commands, or SEU commands, and removes all input typed in since the last key was pressed.

3. Shows additional function keys (F24).

4. Enters changes to records.

5. Enters changes to fields in a prompt.

6. Enters changes to insert lines.

7. Performs syntax checking on the data records.

8. Parses line commands and SEU commands: severe line commands or SEU command errors cause the display to be shown again without further processing of this list.

9. Processes continuous insert.

10. Processes all line commands.

11. Processes all SEU commands.

12. Starts a prompt (F4).

13. If a prompt is active and a prompt line command is not entered:

    • Places the next record in a prompt when you press Enter
    • Places the previous record in a prompt (F11).

14. If a prompt is active:

    • Presents the Select Prompt display (F23)
    • Cancels the prompt (F12).

15. Removes the split display (F12).

16. Processes the Page Up, Page Down, F19 = Left, and F20 = Right keys.

17. Sets the new starting position of the find and change operation, if required.

18. Processes the F13 = Change session defaults, F14 = Find/Change options, and F15 = Browse/Copy options keys.

19. Performs any F16 = Repeat find, and F17 = Repeat change operations.

20. Repositions the display to show the result of the find and change operation.

21. If the display has not been repositioned:

    • Repositions for continuous inserting, if required.

    • Repositions for continuous prompting. If the record is no longer on the screen, SEU removes the prompt, if required.

22. Determines whether a prompt is still shown.

23. Quits the SEU session (F3).

System/38 commands and System/36 commands are not performed in SEU, but you can access the Command Entry display by using the Attn key to enter these commands.

Errors are placed in a list in the order in which they are encountered, with the exception of syntax errors. Syntax errors are placed last on the list.

For cases where different items affect the same function, SEU processes the last item on the list. For example, if all the following are in effect, only the Page key takes effect:

• The display must roll to show the next line for the prompt
• You enter a line command to position the display
• You press Page Up or Page Down.

The other functions are preempted.

Processing Data during an Edit Session

Figure 27 shows the basic steps SEU uses to process data when you are editing source members. The highlighted steps are described following the figure.
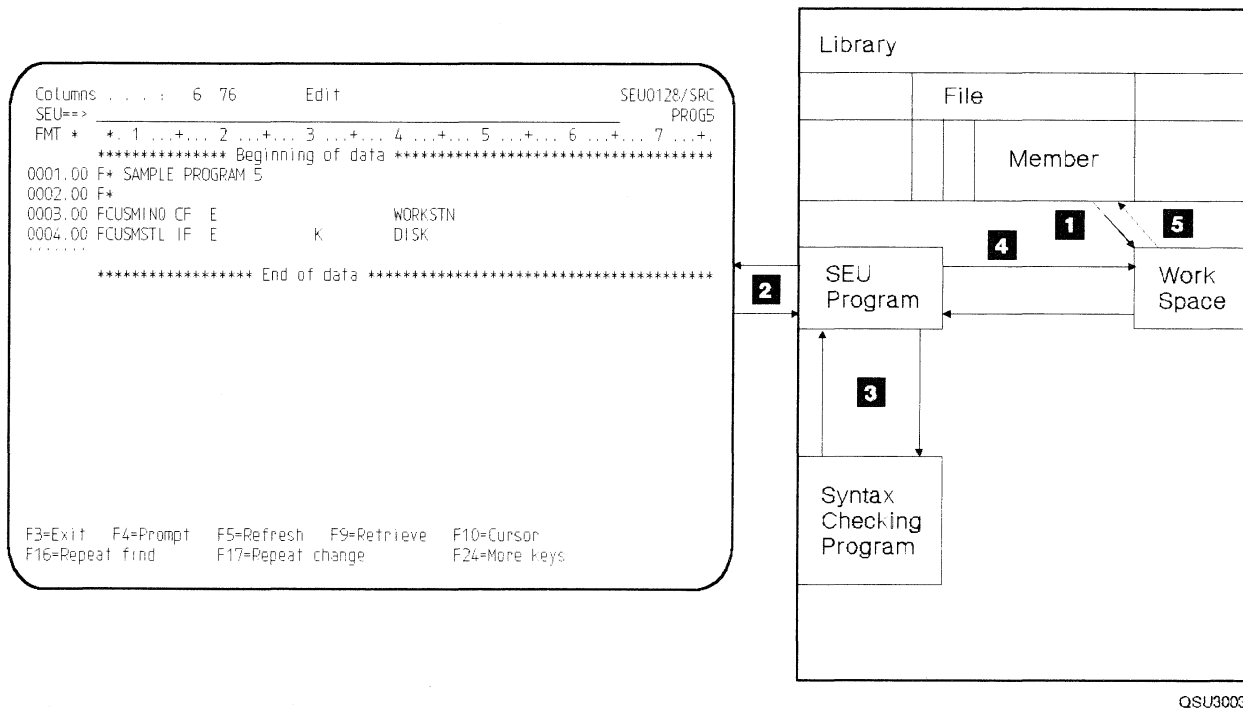
Figure 27. Processing Data during an Edit Session

1 SEU places a copy of the member in a work space when an edit session is started.

2 SEU shows the records at the work station so you can add new source records and change existing source records.

3 SEU optionally has new and changed source records checked by a syntax-checking program.

4 SEU places the new or changed records in the work space.

5 SEU optionally resequences the records and transfers the records from the work space to the source member when you exit from editing.

Using SEU to Edit DDS Comments

You can use the Edit comments feature (option 2 on the Work with Display Records display) in the Screen Design Aid (SDA) to edit record comments in display file source. Press F15 = File-level comments to edit the file-level comments. When you specify option 2 (Edit comments) or press F15, SDA calls SEU to edit the comments.

For more information on working with display records, see the *SDA User's Guide and Reference*. Figure 28 on page 33 shows the Work with Display Records display.

Editing DDS Comments

To edit DDS comments for a specific record, do the following:

1. Type 2 (Edit comments) in the *Opt* field to edit record comments. To edit file-level comments, press F15 = File-level comments. SDA calls SEU to edit the comments.

```
                      Work with Display Records

 File . . . . . . :   QDDSSRC              Member . . . . . . :   NEWDSPF
      Library  . . . :    QGPL             Source type  . . . :   DSPF

 Type options, press Enter.
   1=Add              2=Edit comments      3=Copy           4=Delete
   7=Rename           8=Select keywords   12=Design image

 Opt  Order   Record       Type     Related Subfile   Date       DDS Error

  _2    __10   REC1        RECORD                      09/10/92
  _     __20   REC2        RECORD                      09/10/92
  _     __30   FKEYS       RECORD                      09/10/92
  _     __40   HELP        RECORD                      09/10/92




                                                               Bottom
 F3=Exit                   F12=Cancel      F14=File-level keywords
 F15=File-level comments   F17=Subset      F24=More keys
```

Figure 28. Work with Display Records Display

2. Add, change, or delete file-level or record comments as required. Figure 29 shows an example of the Edit display for editing record comments using the SEU editor.

```
 Columns . . . :   1  71            Edit                    Record comments
 SEU==> _____         REC1
 FMT A* .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 *************** Beginning of data ***********************************
 0000.10     A*
 ***************** End of data *************************************







 F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find         F17=Repeat change          F24=More keys
                                (C) COPYRIGHT IBM CORP. 1981, 1992.
```

Figure 29. Edit Display for Record Comments

Figure 30 on page 34 shows an example of a partial Edit display for editing file-level comments.

```
Columns . . . :   1  71              Edit                    File comments
SEU==> _____
FMT A*  .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
        *************** Beginning of data **********************************
0000.10      A*
        ****************** End of data ****************************************
```

Figure 30. Partial Edit Display for File-Level Comments

The additional fields on the Edit display for editing DDS comments are:

- *Record comments.* Displays when record comments are being edited.

- *File comments.* Displays when file-level comments are being edited.

- *Record format name.* Displays when record comments are being edited.

3. Save, file, or cancel your changes. You can save your changes in one of three ways:

- Enter SAVE on the SEU command line and press a positional function key (such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right) to save your changes and continue editing.

- Enter FILE on the SEU command line to file your changes and return the Work with Display Records display in SDA.

- Press F3 = Exit to go to the Exit display. This display appears as shown in Figure 31.

```
                                      Exit

Type choice, press Enter.

    Save comments  . . . . . . . . . . .  N         Y=Yes, N=No














F3=Exit    F5=Refresh    F12=Cancel
```

Figure 31. Exit Display for DDS Comments

The field on the Exit display is:

> *Save comments.* Type Y (Yes) to have SDA save your comments made during the edit session. Type N (No) to have SDA discard any comments you made during the edit session. When you press Enter, you return the Work with Display Records display in SDA.

The default for this field is Y if you made changes to the file-level comments or record comments, or N if you did not. You made changes if you changed, added, copied, or deleted a comment.

Note: Your comments are stored temporarily by SDA in the SDA work space when you exit the Edit comments session. The comments are not saved to the source member until you save the DDS source while exiting from SDA.

4. To cancel your changes, enter CANCEL or CAN on the SEU command line, or specify N in the *Save comments* field on the Exit display. This returns the Work with Display Records display.

Changing the Edit Session Environment

You can specify parameters to change the edit session environment (such as using syntax checking or forcing uppercase input) by using the Change Session Defaults display. Press F13 = Change session defaults on the Edit display to access the Change Session Defaults display, as shown in Figure 32. You can also change your edit session without using this display by using the SEU SET command. For more information, see "Using the SEU SET Command" on page 41 and "Tailoring Your Session Defaults" on page 117.
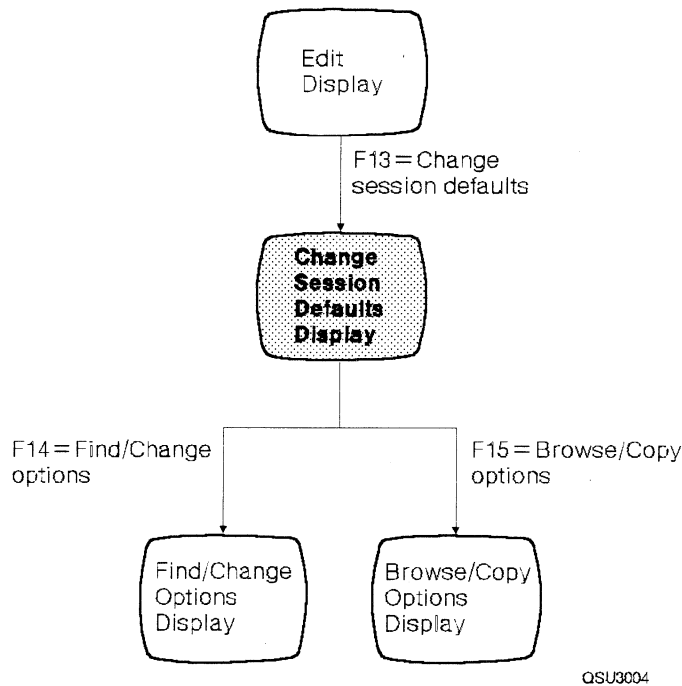
Figure 32. Accessing the Change Session Defaults Display

Using the Change Session Defaults Display

You can use the Change Session Defaults display to specify the following for the edit session:

• The amount by which the data is scrolled when you press Page Up, Page Down, F19 = Left, or F20 = Right. Depending on the value you specify, the data scrolls by a full page, by a half page, by the cursor position, by data (a full page minus a column or a line), or by a specific number of lines.

- Uppercase only or mixed-case input.

- Tabs turned on or off. You set the tabs on the Edit display by using the Tabs line command. See "Tabs Command" on page 91 for more information.

- The amount to increment sequence numbers for inserted records.

- Full screen mode turned on or off.

- The screen size (for 27 X 132 displays only).

- The type of the source member you are editing.

- Syntax checking turned on or off.

- Syntax checking of a range of statements.

- Setting margins (PL/I, C, SQLC, SQLPL/I member types only).

- Setting all existing records to a specific date.

- Setting the resequence member default.

- Changing the default input case for a source type.

Figure 33 and Figure 34 on page 37 show an example of the Change Session Defaults display in an edit session for a PL/I member. The *Screen size* field appears only if you are working with a 27 X 132-capable display.

```
                            Change Session Defaults

  Type choices, press Enter.

     Amount to roll . . . . . . . . . . .   H__          H=Half, F=Full
                                                         C=Cursor, D=Data
                                                         1-999
     Uppercase input only . . . . . . . .   N            Y=Yes, N=No
     Tabs on  . . . . . . . . . . . . . .   N            Y=Yes, N=No
     Increment of insert record . . . . .   0.01         0.01-999.99
     Full screen mode . . . . . . . . . .   N            Y=Yes, N=No
     Screen size  . . . . . . . . . . . .   2            1=27X132, 2=24X80
     Source type  . . . . . . . . . . . .   PLI_____
     Syntax checking:
        When added/modified  . . . . . . .  Y            Y=Yes, N=No
        From sequence number . . . . . . .  _____       0000.00-9999.99
        To sequence number . . . . . . . .  _____       0000.00-9999.99
        Left margin  . . . . . . . . . . .  2_           1-80
        Right margin . . . . . . . . . . .  72           1-80
     Set records to date  . . . . . . . .   __/__/__     YY/MM/DD or YYMMDD
                                                                  More...

  F3=Exit   F5=Refresh       F12=Cancel
  F14=Find/Change options    F15=Browse/Copy options
```

Figure 33. Change Session Defaults Display (Part 1)

To access the second part of the Change Session Defaults display, shown in Figure 34 on page 37, press the Page Down key.

```
┌─────────────────────────────────────────────────────────────────┐
│                      Change Session Defaults                      │
│                                                                   │
│  Type choices, press Enter.                                       │
│                                                                   │
│    Resequence member default  . . . . .  P       Y=Yes, N=No      │
│                                                  P=Previous        │
│    Default to uppercase input                                     │
│       for this source type . . . . . . .  N      Y=Yes, N=No       │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                          Bottom    │
│   F3=Exit   F5=Refresh      F12=Cancel                            │
│   F14=Find/Change options   F15=Browse/Copy options              │
│                                                                   │
└─────────────────────────────────────────────────────────────────┘
```
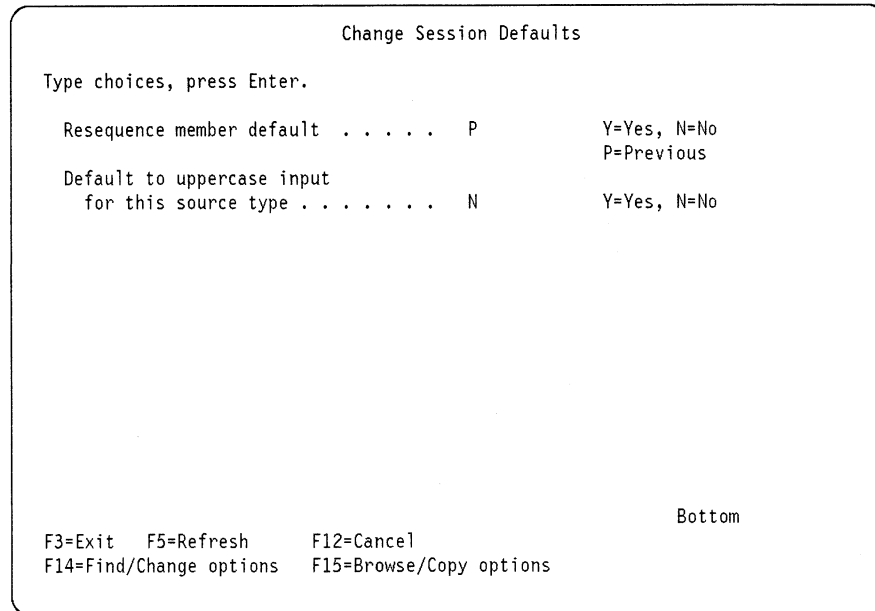
Figure 34. Change Session Defaults Display (Part 2)

The default is shown for each field on the Change Session Defaults display. Specify a new value for each field or press Enter to use the default values. Some default values are dependent on the source type of the member, while others are dependent on the value you entered and used during the last edit session. If there is an error in the input, SEU highlights the incorrect input. You must correct the error before you can save the fields.

The fields on the Change Session Defaults display are:

Amount to roll. Specify the number of lines to move on the display when you press Page Up, Page Down, F19 = Left, and F20 = Right. Type H (Half) to move a half page of records. Type F (Full) to move a full page of records. Type C (Cursor) to move by the cursor position. Type D (Data) to move by the data (a full page of records minus a line or minus a column). Type the number of lines or columns you want to move.

Uppercase input only. Type Y (Yes) to enter all alphabetic characters in uppercase. Type N (No) to enter the data in both uppercase and lowercase. The initial value displayed in this field is the same value that you specified for the *Default to uppercase input for this source type* field.

Tabs on. Type Y (Yes) to use the tabs. Type N (No) to temporarily turn the tabs off.

Increment of insert record. Specify the amount to increment the sequence number of inserted records. For example, type 0.1 to increment from 0001.00 to 0001.10.

Full screen mode. Type Y to use SEU in full screen mode. Full screen mode removes the function key list from the bottom and the format line from the top of the Edit display. This gives you four additional edit or browse records to work with. When you use SEU language prompts, these prompts are abbreviated to give you additional edit lines.

Screen size. Type 1 (27x132) to set the screen size at 27 x 132. Type 2 (24x80) to set the screen size at 24 x 80. This field appears only if you are working with a 27 X 132-capable display.

Source type. Specify the member source type. SEU uses this type to determine which syntax checker to use. For the syntax checkers that SEU supports, see "Syntax Checkers for SEU" on page 44.

Note: SQL embedded in COBOL, FORTRAN, PLI, and RPG member types is syntax checked. A nonembedded SQL program, however, cannot be syntax checked because the AS/400 system does not support an SQL member type.

Syntax checking. These fields determine whether or not SEU checks syntax:

When added/modified. Type Y (Yes) to check each line for syntax errors as you add or change it. Type N (No) if you do not want to check the syntax.

From sequence number and *To sequence number.* Specify two sequence numbers as a range of records. SEU checks the syntax of the corresponding records, then resets the range to include all sequence numbers again. When this field is specified, the *When added/modified* field is ignored.

Left margin and *Right margin.* Specify the left margin and the right margin of the records. SEU checks the syntax on the portions of the records within these margins only.

When you edit a PL/I, C, SQLC, or SQLPLI member, the Change Session Defaults display shows margin fields. Specify a left margin and a right margin for these statements so that SEU performs syntax checking only on the portions of the records within these margins. Syntax checking performed by language processors is also performed only on the portions of the records within these margins.

Note: Syntax checking performed by SEU is not meant to replace the more comprehensive syntax checking performed by language processors. The scope of a source member that is syntax checked is limited to single records or statements only. Errors in identifier references or procedure calls are examples of syntax-related issues that are not dealt with by the syntax checker in SEU.

Set records to date. Specify a date. SEU sets all records to this date.

Resequence member default. The value you specify here determines the value that is used for the *Resequence member* field on the Exit display. Type one of the following:

- Y (Yes) to set the value on the Exit display to Y (Yes)

- N (No) to set the value on the Exit display to N (No)

- P (Previous) to set the value on the Exit display to that used in the previous session.

The initial value in this field is P.

Default to uppercase input for this source type. Type Y (Yes) to have all edit sessions for members of the type that you are editing default to uppercase input. For example, if you are editing a CBL member and type Y, all CBL type members accept uppercase input only. Type N (No) to have all

members of this source type accept mixed case input. When you specify a value for this field, that value becomes the default on the Change Session Defaults display.

Note: If you are editing a source type that SEU does not recognize, the field is displayed as *Default to uppercase input for unknown source type.* If you change the default for an unknown source type, the default case is changed for all unknown source types.

Figure 35 shows the default case in which the different source types are displayed. The default case for source types not shown in this table is uppercase.

Figure 35 (Page 1 of 3). Default Case for Source Types

Description	Default Case	Source Type
AS/400 System		
Auto report	Upper	RPT
BASIC	Upper	BAS
BASIC program	Upper	BASP
C	Mixed	C
C with embedded SQL	Mixed	SQLC
C locale description	Mixed	CLD
CICS maps	Mixed	CICSMAP
CL	Upper	CL
CL program	Upper	CLP
COBOL	Upper	CBL
COBOL with embedded CICS/400 statements	Upper	CICSCBL
COBOL with embedded SQL	Upper	SQLCBL
COBOL with embedded SQL and CICS/400 statements	Upper	CICSSQLCBL
Command definition	Upper	CMD
DFU	Upper	DFU
Display	Upper	DSPF
FORTRAN/400* member	Mixed	FTN
FORTRAN/400 member with embedded SQL	Mixed	SQLFTN
ICF	Upper	ICFF
Logical	Upper	LF
Menu	Upper	MNU
Menu (UIM)	Mixed	MENU
Menu command source	Upper	MNUCMD
Menu DDS source	Upper	MNUDDS
Panel group source	Upper	PNLGRP
Pascal	Mixed	PAS
Physical	Upper	PF
PL/I	Mixed	PLI
PL/I with embedded SQL	Mixed	SQLPLI

Figure 35 (Page 2 of 3). Default Case for Source Types

Description	Default Case	Source Type
Printer	Upper	PRTF
Query	Upper	QRY
REXX	Mixed	REXX
RM/COBOL** member	Upper	RMC
RPG	Upper	RPG
RPG with embedded SQL	Upper	SQLRPG
Spelling dictionary	Mixed	SPADCT
Table	Upper	TBL
Text	Mixed	TXT
System/36		
Assembler	Upper	ASM36
Auto report	Upper	RPT36
Auto response	Upper	ARS36
BASIC	Upper	BAS36
BASIC program	Upper	BASP36
BGU chart	Upper	BGC36
BGU data	Upper	BGD36
BGU format	Upper	BGF36
COBOL	Upper	CBL36
Data	Upper	DTA36
DFU	Upper	DFU36
Fortran	Upper	FOR36
Menu	Upper	MNU36
Message source	Upper	MSGF36
Operator control language	Upper	OCL36
Phone list	Upper	PHL36
RPG	Upper	RPG36
SFGR format source	Upper	DSPF36
Sort	Upper	SRT36
Unspecified	Mixed	UNS36
Work Station Utility	Upper	WSU36
System/38		
Auto report	Upper	RPT38
BASIC	Upper	BAS38
BASIC program	Upper	BASP38
Binary synchronous communications	Upper	BSCF38
Command definition	Upper	CMD38
Communication	Upper	CMNF38

Figure 35 (Page 3 of 3). Default Case for Source Types

Description	Default Case	Source Type
CL	Upper	CL38
CL program	Upper	CLP38
COBOL	Upper	CBL38
DFU/38	Upper	DFU38
Display	Upper	DSPF38
Logical	Upper	LF38
Mixed	Upper	MXDF38
Physical	Upper	PF38
PL/I	Mixed	PLI38
Printer	Upper	PRTF38
Query/38	Upper	QRY38
RPG	Upper	RPG38
SRT	Upper	SRT38
Text	Mixed	TXT38

To change the default case setting for a member type, do the following:

1. Edit a member of the type that you want to change.

2. Press F13 = Change session defaults.

3. Press the Page Down key to access the second part of the Change Session Defaults display.

4. Type either of the following in the *Default to uppercase input for this source type* field:

   • Y (Yes) to assign the current source member type an uppercase input default for subsequent edit sessions

   • N (No) to assign the current source member type a mixed case input default for subsequent edit sessions.

Using the SEU SET Command

You can use the SEU SET command to change the following for the edit session:

• The amount by which the display moves when you press Page Up, Page Down, F19 = Left, or F20 = Right: by a full page, by a half page, by the cursor position, by data (a full page minus a column or a line), or by a specific number of lines.

• Uppercase only or mixed-case input.

• Tabs turned on or off. You set the tabs on the Edit display by using the Tabs line command. See "Tabs Command" on page 91 for more information.

• Full screen mode turned on or off.

For more information on the SEU SET command, see Chapter 6, "Using SEU Commands" on page 105.

Figure 36 shows an example of the SET command on the Edit display. The SET ROLL command is used to set the amount to move on the display when you press Page Up, Page Down, F19=Left, and F20=Right.

```
  Columns . . . :    1  71           Edit            LIBRNAME01/FILENAME01
  SEU==> SET ROLL H_____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
          *************** Beginning of data *************************************
  0001.00 This is the first record in the member.
  0002.00 This is record number 2.
  0003.00 This is record number 3.
  0004.00 This is record number 4.
  0005.00 This is record number 5.
  0006.00 This is record number 6.
  0007.00 This is record number 7.
  0008.00 This is record number 8.
  0009.00 This is record number 9.
  0010.00 This is record number 10.
  0011.00 This is record number 11.
  0012.00 This is record number 12.
  0013.00 This is record number 13.
  0014.00 This is the last record in the member.
          ****************** End of data ****************************************


  F3=Exit    F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find        F17=Repeat change          F24=More keys
```

Figure 36. SET Command with ROLL Option on the Work Screen

To set the amount to roll to half a page, type SET ROLL H on the SEU command line as shown in Figure 36. Press a positional function key such as Enter, Page Up, Page Down, F19=Left, or F20=Right to move half a page of data up, down, left, or right.

Using Full Screen Mode on the Edit Display

Full screen mode lets you remove the format line from the top and the function key list from the bottom of the Edit display so that it gives you four additional Edit records to work with. If you use SEU language prompts, these language prompts are displayed in an abbreviated form. For example, the *Prompt type* field is shown as the *Pmt* field. Figure 37 on page 43 shows an example of the Edit display in full screen mode with abbreviated prompts.

Note: The function keys are still valid for the Edit display in full screen mode, even though they are not shown.

```
    Columns . . . :   1  71              Edit                      QGPL/RPGSRC
    SEU==>                                                                PROG5
           *************** Beginning of data ********************************
    0001.00    H
    0002.00    FCUSMINQ CF   E                     WORKSTN
    0003.00    FCUSMSTL IF   E          K          DISK
    0004.00    ICUSMSTL NS   01
    0005.00    I                                        1    5 CUSNO
    0006.00    I                                        6   25 CUSNAM
    0007.00    I                                       26   55 ADDRES
    0008.00    C         START     TAG
    0009.00    C                   EXFMTCUSPMT                 CUST# PROMPT
    0010.00    C    15             SETON                    LR 15 - END PRO
    0011.00    C    15             GOTO END
    0012.00    C         CUST      CHAINCUSREC              99 GET ADDR REC
    0013.00    C                   GOTO START                 99 - NOT FOU
    0014.00    C                   EXFMTCUSFLDS               WRITE ADDR R

    Pmt  SeqNbr   Lvl  N01N02N03  Factor 1  OpCode  Factor 2  Result
    C    0008.00  ___  _____   START___  TAG___  _____  _____
         Len  Dec H/N/P Hi  Lo  Eq  Comment
         _    _   _   _   _   _   _____
```

Figure 37. SEU Edit Display in Full Screen Mode with Abbreviated Language Prompts

To switch to full screen mode, press F13 = Change session defaults on the Edit display to access the Change Session Defaults display shown in Figure 33 on page 36, and type Y in the *Full screen mode* field. To switch to full screen mode without using the Change Session Defaults display, type SET EXPERT ON on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19 = Left, or F20 = Right).

To cancel full screen mode and return to the normal mode of operation in SEU, press F13 = Change session defaults to access the Change Session Defaults display, and type N in the *Full screen mode* field. To switch to the normal mode without using the Change Session Defaults display, type SET EXPERT OFF on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19 = Left, or F20 = Right). SEU returns the normal Edit display. If you use SEU language prompts, full language prompts appear.

Using Syntax Checking

SEU can syntax-check high-level-language (HLL) and control language (CL) source statements to help you create error-free source members.

You can use the syntax checking feature of SEU in two ways:

- SEU can check records for syntax errors as you insert or change them.
- SEU can check existing records for syntax errors if you specify two sequence numbers as a range of records to check.

When a syntax error is found in a line, SEU flags it by displaying the line in reverse image, and issues an error message. The source type of the member you are editing determines the syntax checker that SEU uses.

Syntax Checkers for SEU

Figure 38 shows the syntax checkers used for various SEU source types.

Figure 38 (Page 1 of 3). Syntax Checkers for SEU Source Types

Description	Syntax Checker	Source Type
AS/400 System		
Auto report	Y	RPT
BASIC	Y	BAS
BASIC program	Y	BASP
C	N	C
C with embedded SQL	N	SQLC
C locale description	N	CLD
CICS map	N	CICSMAP
CL	Y	CL
CL program	Y	CLP
COBOL	Y	CBL
COBOL with embedded CICS/400 statements	Y	CICSCBL
COBOL with embedded SQL	Y	SQLCBL
COBOL with embedded SQL and CICS/400 statements	Y	CICSSQLCBL
Command definition	Y	CMD
DFU	Y	DFU
Display	Y	DSPF
FORTRAN/400 member	Y	FTN
FORTRAN/400 member with embedded SQL	Y	SQLFTN
ICF	Y	ICFF
Logical	Y	LF
Menu	Y	MNU
Menu (UIM)	N	MENU
Menu command source	N	MNUCMD
Menu DDS source	Y	MNUDDS
Panel group source	N	PNLGRP
Pascal	N	PAS
Physical	Y	PF
PL/I	Y	PLI
PL/I with embedded SQL	Y	SQLPLI
Printer	Y	PRTF
Query	Y	QRY
REXX	N	REXX
RM/COBOL member	N	RMC
RPG	Y	RPG
RPG with embedded SQL	Y	SQLRPG
Spelling dictionary	N	SPADCT

Figure 38 (Page 2 of 3). Syntax Checkers for SEU Source Types

Description	Syntax Checker	Source Type
Table	N	TBL
Text	N	TXT
System/36		
Assembler	N	ASM36
Auto report	Y	RPT36
Auto response	N	ARS36
BASIC	N	BAS36
BASIC program	N	BASP36
BGU chart	N	BGC36
BGU data	N	BGD36
BGU format	N	BGF36
COBOL	Y	CBL36
Data	N	DTA36
DFU	N	DFU36
Fortran	N	FOR36
Menu	N	MNU36
Message source	N	MSGF36
Operator control language	N	OCL36
Phone list	N	PHL36
RPG	Y	RPG36
SFGR format source	N	DSPF36
Sort	N	SRT36
Unspecified	N	UNS36
Work Station Utility	N	WSU36
System/38		
Auto report	Y	RPT38
BASIC	Y	BAS38
BASIC program	Y	BASP38
Binary synchronous communications	Y	BSCF38
Command definition	Y	CMD38
Communication	Y	CMNF38
CL	Y	CL38
CL program	Y	CLP38
COBOL	Y	CBL38
DFU/38	Y	DFU38
Display	Y	DSPF38
Logical	Y	LF38
Mixed	Y	MXDF38

Figure 38 (Page 3 of 3). Syntax Checkers for SEU Source Types

Description	Syntax Checker	Source Type
Physical	Y	PF38
PL/I	Y	PLI38
Printer	Y	PRTF38
Query/38	Y	QRY38
RPG	Y	RPG38
SRT	N	SRT38
Text	N	TXT38

Inserting or Changing Records

To use the syntax-checking feature of SEU when inserting or changing records in a member, do the following:

1. Start an SEU edit session with a new or an existing member.

2. Press F13 = Change session defaults to go to the Change Session Defaults display.

3. Verify that a syntax checker exists for the source type of the member you are editing. If the source type shown in the *Source type* field does not have a syntax checker, specify the correct source-type name in the *Source type* field. See Figure 38 on page 44 for a list of syntax checkers used by SEU.

4. Type Y (Yes) in the *When added/modified* field in the Syntax Checking section of the display to have SEU check each line for syntax errors as you add or change it.

5. Verify the default values for the portion of each record to check in the *Left margin* and *Right margin* fields if you are editing a PL/I, C, SQLC, or SQLPLI member.

6. Press Enter to return to the Edit display.

7. Insert a new record by using the Insert (I) or Insert-with-Prompt (IP) line commands, or make changes to an existing record.

8. Press Enter. SEU checks the line you added or modified for syntax errors. If there is a syntax error in the line, SEU flags the error by displaying the line in reverse image, and issues an error message. If there is more than one error in a line, SEU deals with each error, moving from left to right across the line.

Finding Existing Errors in Members

To use the syntax-checking feature of SEU to find existing syntax errors in a member, do the following:

1. Start an SEU edit session with the member you want to check.

2. Press F13 = Change session defaults to go to the Change Session Defaults display.

3. Verify that a syntax checker exists for the source type of the member you are editing. If the source type shown in the *Source type* field does not have a syntax checker, change it by typing a new source-type name in the *Source type* field.

4. Specify two sequence numbers in the *From sequence* and *To sequence* fields as a range of records to check. When you specify the starting and ending sequence numbers, SEU checks the syntax of all records in the member you are editing within the range specified by the two sequence numbers. If you specify 0 for the *From sequence* field or 9999.99 for the *To sequence* field, SEU checks all records in the member for syntax errors.

5. Verify the default values for the portion of each record to check in the *Left margin* and *Right margin* fields if you are editing a PL/I member.

6. Press Enter. SEU checks all lines within the range you specified on the Change Session Defaults display. If there is a syntax error in a line, SEU flags the error by displaying the line in reverse image, and issues an error message. If there is more than one error in a line, SEU deals with each error, moving from left to right across the line.

Additional Considerations

Keep the following in mind when you are using the syntax checking feature of SEU:

- If you specify to check records when they are added or modified, errors are flagged only on lines that are added or changed in the current edit session. If you edit a member that was saved in a previous edit session, lines that contained syntax errors from that session are flagged only if:

  - They are changed in the current session

  - You specify a range of records to check on the Change Session Defaults display

  - A modified record affects its surrounding records.

- You can syntax-check records while you are using a prompt or a format line. If you are using a prompt, SEU checks for syntax errors while the record is in the prompt. If there are errors, the record is retained in the prompt, and a message is issued. You can correct the error at this time, or press Enter to tell SEU to insert the record into the member anyway.

- Syntax checking performed by SEU is not meant to replace the more comprehensive syntax checking performed by language processors. The scope of a source member that is syntax checked is limited to single records or statements only. Errors in identifier references or procedure calls are examples of syntax-related issues that are not dealt with by the syntax checker in SEU.

- You can also search for records added or changed that contain syntax errors. For more information, see "Finding Syntax Errors" on page 51.

Performing Find and Change Operations

You can search a set of records for a string of characters, and change that string to a new string by using SEU commands or by using the Find/Change Options display. To access this display, press F14 = Find/Change options on the Edit display, as shown in Figure 39 on page 48.

QSU3005
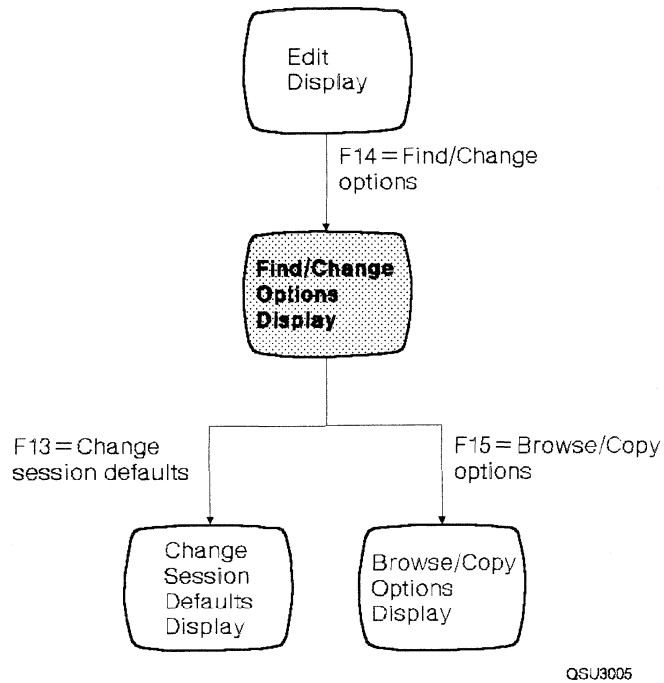
Figure 39. Accessing the Find/Change Options Display

Using the Find/Change Options Display

You can do the following on the Find/Change Options display:

- Search for a specified string
- Change a specified string
- Search for records with a specified date
- Search for syntax errors.

Figure 40 on page 49 shows an example of the Find/Change Options display.

```
                        Find/Change Options

Type choices, press Enter.

    Find . . . . . . . . . . . . .  _____
    Change . . . . . . . . . . . .
    From column number. . . . . . .  1__         1-80
    To column number. . . . . . . .  80_         1-80 or blank
    Occurrences to process . . . .   1           1=Next, 2=All
                                                 3=Previous
    Records to search . . . . . . .  1           1=All, 2=Excluded
                                                 3=Non-excluded
    Kind of match . . . . . . . . .  2           1=Same case
                                                 2=Ignore case
    Allow data shift . . . . . . .   Y           Y=Yes, N=No

    Search for date . . . . . . . .  92/09/10    YY/MM/DD or YYMMDD
       Compare . . . . . . . . . . .  _          1=Less than
                                                 2=Equal to
                                                 3=Greater than

    F3=Exit    F5=Refresh       F12=Cancel   F13=Change session defaults
    F15=Browse/Copy options     F16=Find     F17=Change
```

Figure 40. Find/Change Options Display

When you begin an SEU edit session, the Find/Change Options display you see
at first contains the default values for each field. On subsequent uses of the
display, the value for some fields is the value you previously entered and saved.
If there is an error in the input, SEU highlights the incorrect input. You must
correct the error before you can save the fields.

To save the values you entered for the *Find* and *Change* fields, press Enter,
F16 = Find, or F17 = Change. If the input contains no errors, SEU saves the
values for all fields except *Occurrences to process*, and shows them the next
time you call the Find/Change Options display.

The fields on the Find/Change Options display are:

> *Find.* Specify the character string you want to find. This field can also
> contain the string entered for the SEU FIND command on the SEU command
> line on the Edit display. SEU searches the member for this character string.
>
> For additional information on the find operation, see "Finding Strings with
> Quotation Marks, Apostrophes, and Blanks" on page 50, "Finding Dates" on
> page 51, "Finding Syntax Errors" on page 51, and "Finding and Changing
> DBCS Strings" on page 213.
>
> *Change.* Specify the character string that will replace the find string. This
> field can also contain the string entered for the SEU CHANGE command on
> the SEU command line on the Edit display.
>
> *From column number* and *To column number.* Specify the column numbers
> which define the left and right boundaries for the find operation. The
> boundary columns are included in the range. The default values are 1 and
> the record length. Leave the *To column number* field blank to search for a
> string starting just in the *From column number.*
>
> SEU only searches this range for the find string, so only data within this
> range is affected by a find or change operation.
>
> *Occurrences to process.* Type 1 (Next) to process only the next relevant
> occurrence of the find string. Type 2 (All) to process all relevant

occurrences. Type 3 (Previous) to process only the previous occurrence of the find string. A relevant occurrence is dependent upon the *Records to search, Kind of match, Occurrences to process, From column number,* and *To column number* fields, and the cursor position.

The default for this field is 1 (Next). The field resets to 1 (Next) after you perform either a change-all operation or a find-all operation.

Records to search. Type 1 (All) to search for the find string in excluded and nonexcluded records (excluded records are discussed in "Exclude and Show Commands" on page 94). Type 2 (Excluded) to search only excluded records. Type 3 (Non-excluded) to search only nonexcluded records. The default for this field is 1 (All).

Note: If an excluded record contains the find or change string, SEU performs an implicit Show (S) line command to redisplay that record. See "Exclude and Show Commands" on page 94 for more information on the Exclude and Show line commands.

Kind of match. Type 1 (Same case) to only match strings if the corresponding alphabetic characters are the same case. Type 2 (Ignore case) to match strings with the same corresponding alphabetic characters regardless of case. The default for this field is 2 (Ignore case).

Note: For display devices configured for the Japanese language, the default for this field is 1 (Same case).

Allow data shift. Type Y (Yes) to shift the data following the find string to the right or left to fit the length of the change string, when replacing a find string with a change string. Type N (No) if you do not want the data to shift. If the strings are the same length, this field has no effect.

If you type N and the change string is shorter than the find string, spaces are inserted between the string and the following data. If you type N and the change string is longer than the find string, the find string will not accept the replacement.

Only data in the range specified for the *From column number* and *To column number* fields is shifted.

Search for date. Specify a date. SEU searches for records updated before that date, on that date, or after that date, depending on the value you specify for the *Compare* field. The default is the current system date.

Compare. Specify which records SEU searches by using this value and the date specified for the *Search on date* field. Type 1 (Less than) to search for records last changed before the specified date. Type 2 (Equal to) to search for records last changed on the specified date. Type 3 (Greater than) to search for records last changed after the specified date. Leave this field blank to search for the find string and not for the date. See "Finding Dates" on page 51 for more information. The default value is a blank.

Finding Strings with Quotation Marks, Apostrophes, and Blanks

If the string you type for the *Find* or *Change* field is enclosed in quotation marks or apostrophes, the quotation marks and apostrophes are ignored for the search. Otherwise, the string begins in the first position and includes all characters up to and including the last nonblank character. Enclose the string in quotation marks or apostrophes to include beginning and ending quotation marks, apostrophes, and trailing blanks. Two quotation marks adjacent to each other define the null string.

Figure 41 shows how to find strings with quotation marks, apostrophes, and blanks.

Figure 41. Finding Strings with Quotation Marks, Apostrophes, and Blanks

To Find This String	Specify This String
ABC	ABC, 'ABC' or "ABC"
'ABC'	''ABC'' or "'ABC'"
'ABC	'ABC
ABC'	ABC'
ƀ'ABC'ƀ	'ƀ'ABC'ƀ' or "ƀ'ABC'ƀ"
O'NEIL	O'NEIL
ƀƀƀƀABC	ƀƀƀƀABC
ABCƀƀƀƀ	'ABCƀƀƀƀ' or "ABCƀƀƀƀ"
ABCƀDEF	ABCƀDEF
*ERR	'*ERR' or "*ERR"
*	'*' or "*"

Note: ƀ = blank

Note: To search for an asterisk (*) character in a member, you must enclose it in quotation marks when you type it as the find string. Otherwise, SEU interprets the asterisk as a request to search for the previous find string. This is only valid for the SEU FIND and CHANGE commands if strings were entered previously.

Finding Dates

You can use the find operation to locate all records last changed on a specified date. Specify the date in the *Search on date* field, and specify 1, 2, or 3 for the *Compare* field. When you press F16 = Find, SEU locates the records with the specified date.

Searching for a date and searching for the find string are mutually exclusive. The *Compare* field determines which type of find is performed when you press F16 = Find. If the *Compare* field is blank, SEU searches for the find string. If the compare field is not blank, SEU searches for the date.

Finding Syntax Errors

You can use the find operation to locate syntax errors detected in a source member by an SEU syntax checker. To find syntax errors, type *ERR in the *Find* field, leaving the remainder of the field blank. When you press F16 = Find, SEU locates any syntax errors found by the syntax checker.

You can also use the SEU FIND command to locate syntax errors in source members and spooled files. Type FIND *ERR on the SEU command line and press F16 = Repeat find or a positional function key (Enter, Page Up, Page Down, F19, or F20). SEU locates any syntax errors.

Note: To search for the string *ERR in a member, you must enclose it in quotation marks when you type it as the find string. Otherwise, SEU interprets the asterisk as a request to search for syntax errors.

When searching for syntax errors, the find parameters (*Occurrences to process* and *Records to search* fields) function the same as for a normal find. You cannot perform a change operation with a find operation that specifies syntax errors.

See "Using Syntax Checking" on page 43 for details on how to set up syntax checking in your edit session.

Using the SEU FIND, CHANGE, and SET Commands

You can perform most of the functions on the Find/Change Options display by using the SEU FIND, CHANGE, and SET commands on the Edit display. All the values you specified on the Find/Change Options display are retained. Values entered in the FIND, CHANGE, and SET commands appear in the Find/Change Options display. Any parameters not specified are reset to the defaults.

Use the SEU FIND command to search for a string of characters in the records. Use the SEU CHANGE command to search for a string of characters in the records and to change that string to a new string. Use the SEU SET MATCH command to match the case of the search string. Use the SEU SET SHIFT command to allow the data to shift if the change string is longer or shorter than the find string.

See "Using the SEU SET Command" on page 41 and Chapter 6, "Using SEU Commands" on page 105 for more information on the SEU FIND, CHANGE, and SET commands.

Figure 42 shows an example using the SEU CHANGE command.

```
  Columns . . . :    1  71                  Edit                     QGPL/QRPGSRC
  SEU==> C GOTP GOTO_____        PROG5
  FMT H  ....:..H........1..CDYI....S..............1.F............................
         *************** Beginning of data ************************************
  0001.00      H
  0002.00      FCUSMINQ CF  E                       WORKSTN
  0003.00      FCUSMSTL IF  E           K           DISK
  0004.00      ICUSMSTL NS  01
  0005.00      I                                    1   5 CUSNO
  0006.00      I                                    6  25 CUSNAM
  0007.00      I                                   26  55 ADDRES
  0008.00      C           START     TAG
  0009.00      C                     EXFMTCUSPMT                    CUST# PROMPT
  0010.00      C   15                SETON                     LR   15 - END PRO
  0011.00      C   15                GOTP END
  0012.00      C           CUST      CHAINCUSREC               99   GET ADDR REC
  0013.00      C                     GOTO START                     99 - NOT FOU
  0014.00      C                     EXFMTCUSFLDS                    WRITE ADDR R
  0015.00      C                     GOTO START
         ***************** End of data ***********************************

  F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find         F17=Repeat change          F24=More keys
```

Figure 42. SEU CHANGE Command for an RPG Member

C is a short form for CHANGE. To find all occurrences of the string GOTP in all records in all columns and change it to GOTO in the member, type C GOTP GOTO ALL and press F17=Repeat change, or a positional function key (Enter, Page Up, Page Down, F19, or F20). All occurrences of the string GOTP (for

example, line 0011.00 in Figure 42 on page 52) are found and changed to GOTO in the member.

Using the SEU SET MATCH and SET SHIFT Options

To match the case of your search string, you can use the SET MATCH command. To match strings with the corresponding alphabetic characters with the same case, type SET MATCH ON on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19, or F20). To match strings with the corresponding alphabetic characters regardless of case, type SET MATCH OFF and press a positional function key. The default value is OFF (Ignore case). The SET MATCH command is the same as the *Kind of match* field on the Find/Change Options display. The value entered through the SET MATCH command appears in this field on the Find/Change Options display.

When replacing a find string with a change string, type SET SHIFT ON on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19, or F20) to shift the data following the find string to the right or left to fit the length of the change string. Type SET SHIFT OFF if you do not want the data to shift. If the strings are the same length, this command has no effect. The default value is ON. The SET SHIFT command is the same as the *Allow data shift* field on the Find/Change Options display. The value entered through the SET SHIFT command appears in this field on the Find/Change Options display. For more information, see the *Allow data shift* field in "Using the Find/Change Options Display" on page 48.

See "Tailoring Your Find and Change Operations" on page 116 for more information on the SET MATCH and SET SHIFT options.

Using SEU with the Programming Development Manager (PDM) Find String Function

You can use the find string function (Option 25 on the Work with Members Using PDM display) of the Programming Development Manager (PDM) to search selected members in a list or a subset of a list for a character string. You can use an option of the find string function to use SEU for editing members that contain the string you specify. For more information on using the find string function of PDM, refer to the *PDM User's Guide and Reference*.

If you specify 2 (Edit) for the *Option* field on the Programming Development Manager (PDM) Find String display, PDM calls SEU to edit the selected members in the list that contain the string you specify. Also, PDM passes the values for the *Find Columns to search* and *Kind of Match* fields to the Find/Change Options display of SEU each time it calls SEU.

When SEU starts, the cursor is positioned on the first occurrence of the find string. Press F16 = Find to find each subsequent occurrence.

Changing Strings

You can use SEU to replace the string you specified in the *Find* field with another string. To change strings located with the find string function of the Programming Development Manager (PDM) do the following:

1. Select the members you want to search by using option 25 (Find string) on the PDM member list and then press Enter. The Find String display appears as shown in Figure 43 on page 54.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                              Find String                                  │
│                                                                           │
│   Type choices, press Enter.                                              │
│                                                                           │
│       Find . . . . . . . . . . . . . . .   BEGIN_____  │
│           From column number . . . . . .   1_____    1 - *RCDLEN          │
│           To column number . . . . . . .   40____    1 - *RCDLEN          │
│           Kind of match  . . . . . . . .   2         1=Same case, 2=Ignore case │
│                                                                           │
│       Option . . . . . . . . . . . . . .   2___      *NONE, Valid option  │
│           Prompt . . . . . . . . . . . .   N         Y=Yes, N=No          │
│       Print list . . . . . . . . . . . .   N         Y=Yes, N=No          │
│       Print records  . . . . . . . . . .   N         Y=Yes, N=No          │
│           Number to find . . . . . . . .   *ALL_     *ALL, number         │
│           Print format . . . . . . . . .   *CHAR__   *CHAR, *HEX, *ALTHEX │
│           Mark record  . . . . . . . . .   Y         Y=Yes, N=No          │
│           Record overflow  . . . . . . .   1         1=Fold, 2=Truncate   │
│       Find string in batch . . . . . . .   N         Y=Yes, N=No          │
│       Parameters . . . . . . . . . . . .   _____      │
│                                                                           │
│       ─────────────────────────────────────────────────────────────      │
│       F3=Exit            F5=Refresh        F12=Cancel      F16=User options │
│       F18=Change defaults                                                 │
└─────────────────────────────────────────────────────────────────────────┘
```

Figure 43. Programming Development Manager (PDM) Find String Display

2. Specify values for the *Find, From column number, To column number* and *Kind of match* fields. These values are used for each member selected for the search.

   You may also specify values for the print options. These allow you to print either the list of members which contain the find string, or the records in the member which contain the match. For more information on the print options, refer to the *PDM User's Guide and Reference*.

3. Type 2 in the *Option* field. Press Enter. The Programming Development Manager (PDM) searches the members you selected for the string specified in the *Find* field. If PDM finds the string, it calls SEU to edit the member. SEU positions the member so that the cursor is under the first occurrence of the string.

4. Press F14 = Find/Change options to access the Find/Change Options display.

   Use the Find/Change Options display to specify the options for the change operation.

   Note: The *Find, From column number, To column number*, and *Kind of match* fields are already filled in with the values you specified on the Find String display.

5. Press F17 = Change to perform the change operation.

   If you specified 2 (All) for the *Occurrences to process* field, SEU changes all of the strings in the member to the one you specified. If you specified 1 (Next) or 3 (Previous), press F17 to change following or previous strings one at a time.

6. Press F3 = Exit to access the Exit display when you finish changing the member. Type Y in the *Create/Change member* field, then press Enter to save the changes.

   The Programming Development Manager (PDM) continues to search the remaining members you selected for the find string.

Notes:

a. All of the values you specified on the PDM Find String display are retained for each of the members searched. For example, the value you type in the *Find* field is used to search all of the members that you select.

b. The value you specify for the *Change* field on the SEU Find/Change Options display is retained from the first change operation you perform. When PDM calls SEU for another member that contains the *Find* string, you can press F17 = Repeat change to perform the same type of change as you did for the previous member.

   If you specify 2 (All) for the *Occurrences to process* field, this value is also retained for subsequent change operations. If you specify any other value for the *Occurrences to process* field, this field assumes the value 1 (Next) for each subsequent member.

c. The value you specify for the *Allow data shift* field on the Find/Change Options display in SEU is not retained for future edit sessions when you use the Find String function. The default for this value depends on the type of the source member being edited.

Leaving SEU

When you leave an edit session, you can continue searching the remaining members you selected on the Work with Members Using PDM display, or you can cancel the search and return the Work with Members Using PDM display.

To leave SEU while in an edit session, press F3 = Exit. If you want to continue searching members for the find string, type N in the *Cancel PDM Find String* field, then press Enter. If you want to cancel the search for the find string, type Y in this field. N is the default for this field.

You can also press F3 = Exit twice to cancel the search for the find string. Any changes you made to the member are discarded.

Browsing or Copying Another Member

While you are editing a member, you can look at another member, a spooled file, or an output queue. You can also copy records from a browse member into the member you are editing. Use the Browse/Copy Options display to do these operations. You access the options display by pressing F15 = Browse/Copy options on the Edit display, as shown in Figure 44 on page 56.
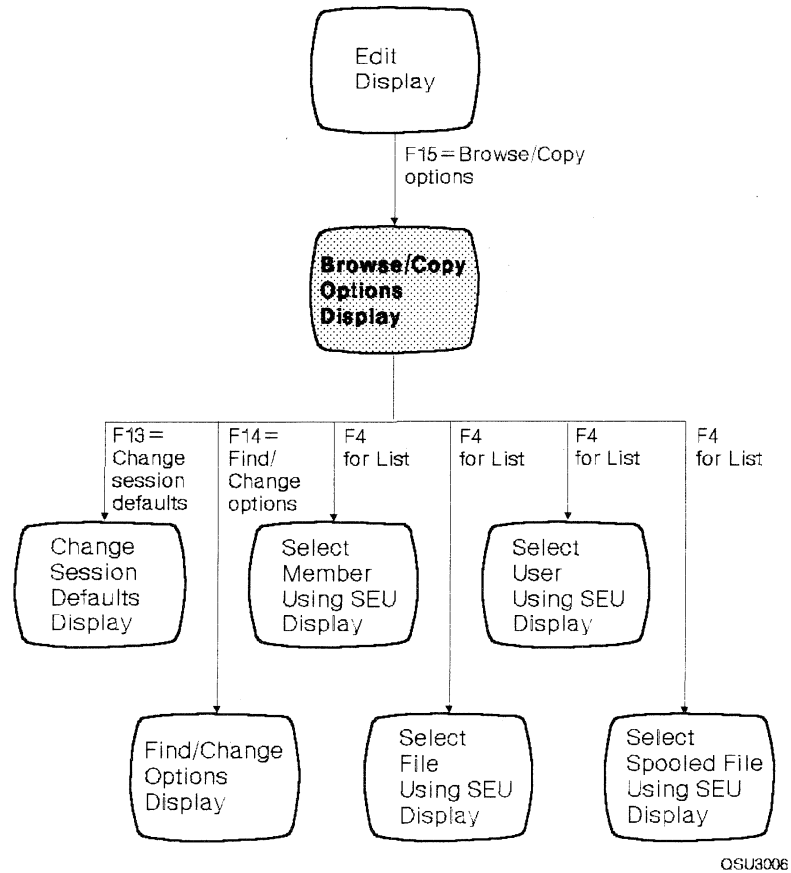
Figure 44. Accessing the Browse/Copy Options Display

Using the Browse/Copy Options Display

You can do the following on the Browse/Copy Options display:

- Start a split session while editing a member to look at another member in a source physical file, physical file, or spooled file. For more information, see Chapter 8, "Splitting the Edit and Browse Displays" on page 139.

- Look at an output queue while editing a member.

- Copy records from a member or spooled file into the member you are editing.

- Specify a new library or file from which to select a member.

- Select another file to browse or from which to copy another member.

- Select a spooled file to browse or copy.

- Select another user's spooled file to browse or copy.

Figure 45 on page 57 shows an example of the Browse/Copy Options display.

```
                          Browse/Copy Options
      Type choices, press Enter.

         Selection . . . . . . . . . . .    1              1=Member
                                                           2=Spool file
                                                           3=Output queue
         Copy all records  . . . . . . .    N              Y=Yes, N=No
         Browse/copy member  . . . . . .    MEMBNAME02     Name, F4 for list
            File  . . . . . . . . . . . .     FILENAME01   Name, F4 for list
               Library . . . . . . . . . .      LIBRNAME01 Name, *CURLIB, *LIBL

         Browse/copy spool file  . . . .    MEMBNAME02     Name, F4 for list
            Job . . . . . . . . . . . . .    MEMBNAME02    Name
               User  . . . . . . . . . . .     USERID____  Name, F4 for list
               Job number  . . . . . . . .      *LAST_     Number, *LAST
            Spool number  . . . . . . . .     *LAST        Number, *LAST, *ONLY

         Display output queue  . . . . .    QPRINT____     Name, *ALL
            Library . . . . . . . . . . .     *LIBL_____   Name, *CURLIB, *LIBL

      F3=Exit       F4=Prompt     F5=Refresh        F12=Cancel
      F13=Change session defaults   F14=Find/Change options
```

Figure 45. Browse/Copy Options Display

The fields on the Browse/Copy Options display are:

Selection. Type 1 (Member) or 2 (Spool file) to start a split session. Type 3 (Output queue) to look at an output queue.

Copy all records. Type Y (Yes) to copy all records from the browse member to the member in the edit session. Type N (No) if you do not want to copy the records to the member in the edit session. See "Copying All Records" on page 58 for additional information on using this feature.

Browse/copy member. Specify the name of the member you want to browse or copy. If you press F4 for List when the cursor is in this field, you access the Select Member Using SEU display. For more information, see "Selecting a Member" on page 59. To view a subset of the list of members, type the name or partial name and then press F4. For example:

Specify	To Show
ABC*	Only members that begin with ABC
*ABC	Only members that end with ABC
ABC	Only members that have ABC in their names
A*B	Only members that start with A and end with B
**ALL	Only members that end with ALL
*ALL	All members
"*A"	Only members that end with A and are enclosed in quotation marks.

File. Specify the name of the source physical file or physical file that contains the member listed in the *Browse/copy member* field. The default value for this field is the name of the file that contains the member being edited, or the last value entered during the session. If you press F4 for List when the cursor is in this field, you access the Select File Using SEU display. For more information, see "Selecting Another File" on page 60.

To view a subset of the list of files, type the name or partial name and then press F4. See the description of the *Browse/copy member* field for examples.

Library. Specify the name of the library that contains the source physical file or physical file listed in the *File* field. The default value for this field is the name of the library that contains the member being edited, or the last value entered during the session.

Browse/copy spool file. Specify the name of the spooled file you want to browse or copy. The default value for this field is the name of the member you are editing. If you press F4 for List when the cursor is in this field, you access the Select Spooled File Using SEU display. For more information, see "Selecting a Spooled File" on page 61. To view a subset of the list of spooled files, type the name or partial name and then press F4. See the *Browse/copy member* field for examples.

Job. Specify the name of the job that created the spooled file. The default value for this field is the name of the member you are editing.

User. Specify the user profile name under which the job ran. The default value for this field is the current user ID. If you press F4 for List when the cursor is in this field, you access the Select User Using SEU display. For more information, see "Selecting Another User" on page 63. To view a subset of the list of user profiles, type the name or partial name and then press F4. See the *Browse/copy member* field for examples.

Note: A user profile name or partial name cannot be entered with quotation marks.

Job number. Specify the 6-digit number of the job that created the spooled file. The default value for this field is *LAST.

Spool number. Specify the 5-digit number of the spooled file. The default value for this field is *LAST.

Display output queue. Specify the name of the output queue. The default value for this field is QPRINT. If you specify *ALL, do not specify a library name in the *Library* field.

Library. Specify the name of the library for the output queue. The default value for this field is *LIBL. If you specify *LIBL, do not specify *ALL in the *Display output queue* field.

Copying All Records

If you specify 1 (Member) or 2 (Spool File) for the *Selection* field, and Y (Yes) for the *Copy all records* field, one of the following occurs:

- If you specified a target in the edit member, SEU copies the entire member or spooled file specified on the Browse/Copy Options display to the target without starting a split session. See "Target Commands" on page 67 for details on specifying targets.

- If you did not specify a target, SEU starts a split session and places a Block Copy (CC) line command on the first and last record of the member or spooled file you are browsing. If you then specify a target in the edit member, SEU copies the member to the target. You must press F12 = Cancel to exit from the split session and return the Edit display.

If you specify N (No) for the *Copy all records* field, SEU starts a split session.

See Chapter 8, "Splitting the Edit and Browse Displays" on page 139 for more information on working with a split session.

Selecting a Member

You can select another member to browse or copy while you are working with a member on the Edit display. To do this, press F15=Browse/Copy options to access the Browse/Copy Options display. Move the cursor to the *Browse/copy member* field on the Browse/Copy Options display and press F4 for List to access the Select Member Using SEU display. Select a member to browse or copy on the Select Member Using SEU display, as shown in Figure 44 on page 56.

You can do the following on the Select Member Using SEU display:

- Select a member to browse or copy
- Reposition the list on the display
- Go to the Subset Member List display.

Figure 46 shows an example of the Select Member Using SEU display.

```
                        Select Member Using SEU

    File  . . . . . . . . . . :  FILENAME01        Library . . . :   LIBRNAME01

    Position to . . . . . . . .  _____        Starting character(s)
    Subset by name  . . . . . .  *ALL_____        *ALL, name, *generic*

    Type option, press Enter.
       1=Select

    Opt  Member      Type      Text
    _    MEMBNAME01   TXT       Customer data file for mailing list
    1    MEMBNAME02   TXT       Customer data file for mailing list




                                                                    Bottom
       F5=Refresh        F12=Cancel       F14=Display date     F15=Sort by date
       F17=Subset
```

Figure 46. Select Member Using SEU Display

The fields on the Select Member Using SEU display are:

> *File.* Identifies the name of the physical file or source physical file that contains the member you want to browse or copy.

> *Library.* Identifies the name of the library that contains the member you want to browse or copy.

> *Position to.* Specify a member name or partial member name to reposition the list to that member. You can type *TOP or *BOT to access the top or bottom of the list of members.

Subset by name. Identify a particular or generic name to subset the list. For example:

Specify	To Show
ABC*	Only members that begin with ABC
*ABC	Only members that end with ABC
ABC	Only members that have ABC in their names
A*B	Only members that start with A and end with B
**ALL	Only members that end with ALL
*ALL	All members
"*A"	Only members that end with A and are enclosed in quotation marks.

Opt. Type 1 (Select) to browse the selected member. Unlike the Work with Members Using SEU display, you can choose only one selection at a time from the Select Member Using SEU display.

Selecting Another File

You can select another file to browse or from which to copy another member while you are working with a member on the Edit display. To do this, press F15 = Browse/Copy options to access the Browse/Copy Options display. Move the cursor to the *File* field on the Browse/Copy Options display and press F4 for List to access the Select File Using SEU display. Select a file to browse or from which to copy a member on the Select File Using SEU display, as shown in Figure 44 on page 56.

You can do the following on the Select File Using SEU display:

- Select another physical file or source physical file that contains the member you want to browse or copy

- Reposition the list on the display.

Figure 47 on page 61 shows an example of the Select File Using SEU display.

```
                       Select File Using SEU

Library:    QTEMP

Position to . . . . . .    _____    Starting character(s)
Subset  . . . . . . . .    *ALL_____    *ALL, name, *generic*

Type option, press Enter.
   1=Select

Opt     File        Text
  _     QCBLSRC     COBOL source
  1     QDDSSRC     DDS source




                                                          Bottom
  F5=Refresh    F12=Cancel
```

Figure 47. Select File Using SEU Display

The fields on the Select File Using SEU display are:

> *Library.* Identifies the name of the library that contains the files.
>
> *Position to.* Specify a file name or partial file name to reposition the list to that file. You can type *TOP or *BOT to go to the top or bottom of the list of files.
>
> *Subset.* Identify a particular or generic name to subset the list. For example:

> | Specify | To Show |
> |---------|---------|
> | ABC* | Only files that begin with ABC |
> | *ABC | Only files that end with ABC |
> | *ABC* | Only files that have ABC in their names |
> | A*B | Only files that start with A and end with B |
> | **ALL | Only files that end with ALL |
> | *ALL | All files |
> | "*A" | Only files that end with A and are enclosed in quotation marks. |

> *Opt.* Type 1 (Select) to choose the file.
>
> *Text.* The description of the file.

Selecting a Spooled File

> You can select a spooled file to browse or copy while you are working with a member on the Edit display. To do this, press F15 = Browse/Copy options to access the Browse/Copy Options display. Move the cursor to the *Browse/copy spool file* field on the Browse/Copy Options display and press F4 for List to access the Select Spooled File Using SEU display. Select a file to browse or

copy on the Select Spooled File Using SEU display, as shown in Figure 44 on page 56.

You can do the following on the Select Spooled File Using SEU display:

- Select a spooled file to browse or copy
- Reposition the list on the display.

Figure 48 shows an example of the Select Spooled File Using SEU display.

```
                            Select Spooled File Using SEU

        User:    QSECOFR

        Type option, press Enter.
          1=Select

        Opt    File         File Nbr   Job         Number    Date        Time
          _    QSYSPRT           1     B230        002772    09/10/92    06:47:50
          1    QSYSPRT           2     B230        002772    09/10/92    06:47:52




                                                                         Bottom
          F5=Refresh    F11=View 2   F12=Cancel   F17=Top   F18=Bottom
```

Figure 48. Select Spooled File Using SEU Display

The fields on the Select Spooled File Using SEU display are:

User. Identifies the name of the user who owns the spooled file.

Opt. Type 1 (Select) to choose the spooled file.

File. The file name that was specified by the user program when the file was created, or the name of the device file used to create this file.

Queue. The name of the output queue that contains this spooled file. It appears on the Select Spooled File Using SEU display when you press F11 = View 2.

Library. The name of the library that contains the output queue. It appears on the Select Spooled File Using SEU display when you press F11 = View 2.

User Data. The 10 characters of user-specified data that describe this file. It appears on the Select Spooled File Using SEU display when you press F11 = View 2.

Total Pages. The total number of pages or records in the file (pages for print, records for diskette). If the file is still open, this field is blank. An R is displayed after the value if the file is a diskette file. It appears on the Select Spooled File Using SEU display when you press F11 = View 2.

File Number. The file number for the output file.

Job. The name of the job that produced the spooled file.

Number. The number of the job that produced the spooled file.

Date. The date when the file was created.

Time. The time when the file was created.

Selecting Another User

You can select another user's spooled file to browse or copy while you are working with a member on the Edit display. To do this, press F15 = Browse/Copy options to access the Browse/Copy Options display. Move the cursor to the *User* field on the Browse/Copy Options display and press F4 for List to access the Select User Using SEU display. Select a file to browse or copy on the Select User Using SEU display, as shown in Figure 44 on page 56.

You can do the following on the Select User Using SEU display:

- Select another user's spooled file to browse or copy
- Reposition the list on the display.

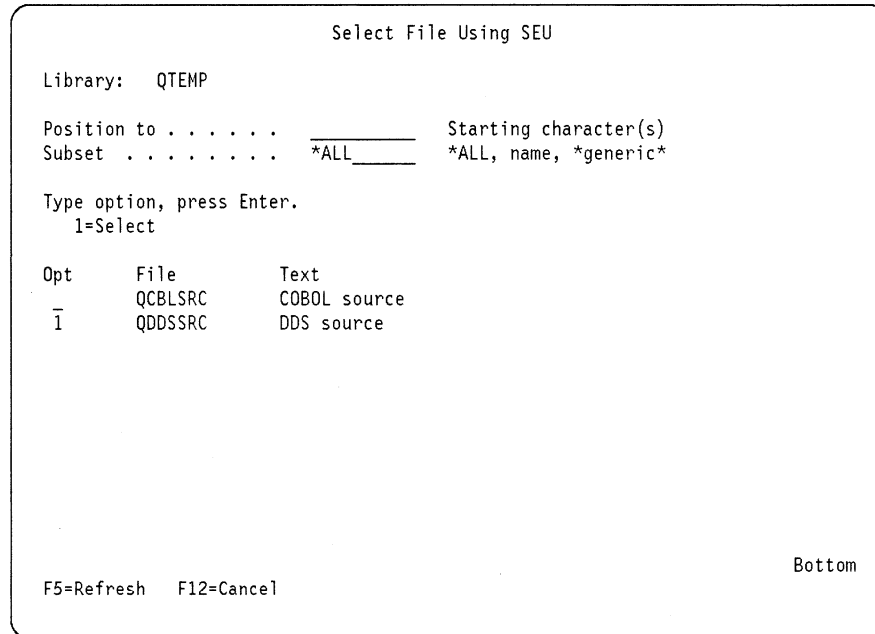Figure 49 shows an example of the Select User Using SEU display.

```
                          Select User Using SEU

   Position to . . . . . .   _____   Starting character(s)
   Subset  . . . . . . . .   *ALL_____   *ALL, name, *generic*

   Type option, press Enter.
     1=Select

   Opt     User           Description
    _      USER01         User profile 1
    1      USER02         User profile 2
    _      USER03         User profile 3
    _      USER04         User profile 4
    _      USER05         User profile 5
    _      USER06         User profile 6
    _      USER07         User profile 7
    _      USER08         User profile 8
    _      USER09         User profile 9
    _      USER10         User profile 10
    _      USER11         User profile 11
    _      USER12         User profile 12
                                                              More...
   F5=Refresh    F12=Cancel
```

Figure 49. Select User Using SEU Display

The fields on the Select User Using SEU display are:

Position to. Specify a user ID or a partial user ID to reposition the list to it. You can type *TOP or *BOT to access the top or bottom of the list of users.

Subset. Identify a particular or generic name to subset the list. For example:

Specify	To Show
ABC*	Only user IDs that begin with ABC
*ABC	Only user IDs that end with ABC
ABC	Only user IDs that have ABC in their names
A*B	Only user IDs that start with A and end with B

**ALL   Only user IDs that end with ALL

*ALL   All user IDs

Opt. Type 1 (Select) to choose a user.

User. The name of the user.

Description. A brief description of the user.

Chapter 5. Using Line Commands

Line commands are used to perform various operations on the edit and browse sessions. This chapter describes how to:

- Enter line commands

- Use line commands to copy, delete, insert, or move records

- Use line commands to assist in entering data for new records, such as format lines and tab settings

- Use line commands to change which records you see on the display.

Entering Line Commands

Line commands direct SEU to perform various functions on the records. You type line commands in the *Sequence number* field for a record. For example, type the D (delete) line command in the sequence number of a record to delete that record. Type the D3 line command to delete three records.

Note: In the examples that follow, the line commands shown in the *Sequence number* field on the Edit display are followed by blanks to make them easier to read. Unless otherwise specified, you are not required to type blanks.

Figure 50 shows a D line command typed in the *Sequence number* field for record 0010.00, and a D3 line command typed in the *Sequence number* field for record 0014.00.

```
  Columns . . . :   1  71            Edit              LIBRNAME01/FILENAME01
  SEU==> _____       MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0009.00 This is record 9.
  D       This record has a D (Delete) line command.
  0011.00 This is record 11.
  0012.00 This is record 12.
  0013.00 This is record 13.
  D3      This record has a D3 (Delete 3) line command.
  0015.00 This record is the second record to be deleted.
  0016.00 This record is the third record to be deleted.
  0017.00 This is record 17.
  0018.00 This is record 18.
  0019.00 This is record 19.
  0020.00 This is record 20.
  0021.00 This is record 21.
  0022.00 This is record 22.
          ****************** End of data ***************************************



  F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find        F17=Repeat change          F24=More keys
```

Figure 50. Edit Display with Delete Commands

After you have typed in line commands or made changes to existing line commands, you tell SEU to run the command in one of three ways:

- Press Enter
- Press a valid function key
- Press Page Up or Page Down.

For example, press Enter and SEU deletes records 0010.00, 0014.00, 0015.00, and 0016.00, as shown in Figure 51.

```
  Columns . . . :    1  71              Edit                LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0009.00 This is record 9.
0011.00 This is record 11.
0012.00 This is record 12.
0013.00 This is record 13.
0017.00 This is record 17.
0018.00 This is record 18.
0019.00 This is record 19.
0020.00 This is record 20.
0021.00 This is record 21.
0022.00 This is record 22.
        ****************** End of data ****************************************
```

Figure 51. Edit Display with Records Deleted

Sequencing Records

As you enter source statements into a member, SEU assigns a unique sequence number to each record.

When you create a new source member or add records to the end of an existing member, SEU uses a 1.00 increment to assign sequence numbers. For example, SEU numbers the first records in a new source member as follows:

0001.00
0002.00
0003.00
.
.
.
$000n.00$

When you copy, move, or insert records, SEU uses 0.01 increments. For example, if you insert three records between records 0003.00 and 0004.00, SEU assigns sequence numbers 0003.01, 0003.02, and 0003.03 to the inserted records.

You can change the increment SEU uses for inserted records by specifying the increment you want on the *Increment of insert record* field on the Change Session Defaults display. If you specify an increment greater than 1.00, the sequence number for each record inserted is incremented by that amount. If you specify an increment less than 1.00, the sequence numbers for the records inserted before the end of the member are incremented by that amount, while those added to the end of the member are incremented by 1.00.

SEU automatically resequences when you add a record between two consecutively numbered records (for example, between records 1.01 and 1.02).

SEU also automatically resequences if you copy or move a group of records to a target location that cannot receive all the records.

Using Line Commands to Copy, Delete, Insert, or Move Records

To copy, delete, insert, or move records in a member, use the following types of line commands:

After, Before, and Overlay (target commands)
Copy
Copy Repeat
Delete
Insert
Move
Repeat.

Target Commands

The After (A), Before (B), and Overlay (O) commands are target commands. You specify the After, Before, or Overlay command as a target for a Copy (C), Copy Repeat (CR), Move (M), or block (MM, CC) command.

The Overlay command replaces blank data in a selected line with nonblank data from another line. The Overlay command selects the target, or the line whose blanks are replaced. The Copy, Copy Repeat, and Move commands select the line that replaces the blanks.

Use the following line commands to specify a target:

Command	Description
A	Move, copy, or include the specified records after this record.
B	Move, copy, or include the specified records before this record.
An	Move, copy, or include the specified records after this record and repeat the lines n-1 times.
Bn	Move, copy, or include the specified records before this record and repeat the lines n-1 times.
O	Overlay this record with the first record specified by the Copy, Copy Repeat, or Move line command.
On	Overlay the specified records on this record and the next n-1 lines.
OO	Overlay all records in this block (defined by a pair of OO commands) with the records defined by the Copy, Copy Repeat, or Move line commands.

Using Overlay Commands

When you use the Overlay line commands, keep the following in mind:

- If you specify more records to overlay than you are copying or moving, SEU reuses the moved or copied records to complete the overlay.

- The records to be moved are deleted from their original location after the overlay is performed, unless one of the following is true:

  - There are more records to overlay than to move

- Not all nonblank characters from the move records are copied to the overlay records.

In either situation, SEU retains the records in their original position and issues a message.

For examples of using the target commands, see "Copy Commands," "Copy Repeat Commands" on page 71 , and "Move Commands" on page 75.

Copy Commands

You can copy a record or block of records to another location in a member or to another member with the following line commands:

Command	Description
C	Copy this record to the target specified by A, B, O, or OO.
CC	Copy this block of records (defined by a pair of CC commands) to the target specified by A, B, O, or OO.
Cn	Copy n records, starting with this record, to the target specified by A, B, O, or OO.

You can type the line commands for a copy operation in any order. For example, you can type the target (A, B, or O) line command before or after typing the CC and CC line commands that identify the block of records to be copied, but the target must be outside the range of the block command. For more information, see "Summary of Rules for Entering Line Commands" on page 100.

Example: Copying a Block of Records

Type the CC line command in sequence numbers 0021.00 and 0024.00, and type the A line command in sequence number 0026.00, as shown in Figure 52.

```
/                                                                          \
  Columns . . . :   1  71            Edit            LIBRNAME01/FILENAME01
  SEU==>  _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0020.00 Original record number 20
  CC      This is the first record in the block
  0022.00 This is the second record in the block
  0023.00 This is the third record in the block
  CC      This is the fourth record in the block
  0025.00 Original record number 25
  A       Original record number 26
  0027.00 Original record number 27
          ****************** End of data ****************************************
```

Figure 52. Edit Display with Block Copy Commands

Press Enter. SEU copies the records, places them immediately after record 0026.00, and renumbers the records as shown in Figure 53 on page 69.

```
Columns . . . :   1 71          Edit              LIBRNAME01/FILENAME01
SEU==>  _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0020.00 Original record number 20
0021.00 This is the first record in the block
0022.00 This is the second record in the block
0023.00 This is the third record in the block
0024.00 This is the fourth record in the block
0025.00 Original record number 25
0026.00 Original record number 26
0026.01 This is the first record in the block
0026.02 This is the second record in the block
0026.03 This is the third record in the block
0026.04 This is the fourth record in the block
0027.00 Original record number 27
        ***************** End of data *****************************************
```

Figure 53. Edit Display with Block of Records Copied

You can also copy the same records by typing the C4 line command in sequence
number 0021.00, and typing the A line command for record 0026.00.

Example: Copying a Record More than Once

Type the C line command in sequence number 0021.00, and type the A2 line
command in sequence number 0026.00, as shown in Figure 54.

```
Columns . . . :   1 71          Edit              LIBRNAME01/FILENAME01
SEU==>  _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0020.00 Original record number 20
C       This record (21) is copied
0022.00 Original record number 22
0023.00 Original record number 23
0024.00 Original record number 24
0025.00 Original record number 25
A2      Original record number 26
0027.00 Original record number 27
        ***************** End of data *****************************************
```

Figure 54. Edit Display with After and Copy Commands

Press Enter. SEU copies record 0021.00 twice, places the copies immediately
after record 0026.00, and renumbers the records, as shown in Figure 55.

```
Columns . . . :   1 71          Edit              LIBRNAME01/FILENAME01
SEU==>  _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0020.00 Original record number 20
0021.00 This record (21) is copied
0022.00 Original record number 22
0023.00 Original record number 23
0024.00 Original record number 24
0025.00 Original record number 25
0026.00 Original record number 26
0026.01 This record (21) is copied
0026.02 This record (21) is copied
0027.00 Original record number 27
        ***************** End of data *****************************************
```

Figure 55. Edit Display with Record Copied to Target

Example: Using Copy to Overlay a Single Record

To overlay blanks in a single record with nonblank data, type the O line command in sequence number 0004.00, and type the C line command in sequence number 0006.00, as shown in Figure 56.

```
/‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾
   Columns . . . :   1  71            Edit           LIBRNAME01/FILENAME01
   SEU==> _____ MEMBNAME01
   FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
   0003.00 This is record 3.
   O       This    record will have    its blanks      overlaid.
   0005.00 This is record 5.
   C       NON-BLANKS FROM THIS RECORD WILL OVERLAY BLANKS IN THE TARGET RECORD
   0007.00 This is record 7.
           ****************** End of data ****************************************
```

Figure 56. Edit Display with Overlay and Copy Commands

Press Enter. SEU overlays record 0004.00 with the nonblank data from record 0006.00, as shown in Figure 57.

```
/‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾
   Columns . . . :   1  71            Edit           LIBRNAME01/FILENAME01
   SEU==> _____ MEMBNAME01
   FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
   0003.00 This is record 3.
   0004.00 ThisBLANrecordM will haveRD Wits blanksY BLAoverlaid.E TARGET RECORD
   0005.00 This is record 5.
   0006.00 NON-BLANKS FROM THIS RECORD WILL OVERLAY BLANKS IN THE TARGET RECORD
   0007.00 This is record 7.
           ****************** End of data ****************************************
```

Figure 57. Edit Display with Single Record Overlaid

Example: Using Copy to Overlay More than One Record

To select one record to overlay three records, type the C line command in sequence number 0004.00, and type the O3 line command in sequence number 0006.00, as shown in Figure 58.

```
/‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾
   Columns . . . :   1  71            Edit           LIBRNAME01/FILENAME01
   SEU==> _____ MEMBNAME01
   FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
   0003.00 DCL I FIXED;
   C       /*                                       */
   0005.00 DCL J FIXED;
   O3          LEN_STR:
   0007.00             The length of the
   0008.00             string in variable STR.
   0009.00 DCL LEN_STR FIXED;
           ****************** End of data ****************************************
```

Figure 58. Edit Display with Overlay and Copy Commands

Press Enter. SEU overlays records 0006.00, 0007.00, and 0008.00 with the non-blank data from record 0004.00, as shown in Figure 59 on page 71.

```
 Columns . . . :    1  71              Edit               LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 0003.00 DCL I FIXED;
 0004.00 /*                                            */
 0005.00 DCL J FIXED;
 0006.00 /*   LEN_STR:                                 */
 0007.00 /*               The length of the            */
 0008.00 /*               string in variable STR.      */
 0009.00 DCL LEN_STR FIXED;
         ****************** End of data *****************************************
```

Figure 59. Edit Display with Records Overlaid

Copy Repeat Commands

You can repeatedly copy a record or block of records to one or more locations by using the Copy Repeat (CR) command. This command is used with the target commands, similar to the way you use the Copy command. After processing the operation, SEU removes the target commands but retains the CR command on the display. Enter the same or new targets for the records to repeat the copy operation as many times as you need. To cancel the command, type over it or press F5 = Refresh.

Use the following line commands to repeatedly copy the same records:

Command	Description
CR	Copy this record to the targets specified by A, B, O, or OO, and retain this command.
CRn	Copy *n* records, starting with this record, to the targets specified by A, B, O, or OO, and retain this command.
CCR	Copy this block of records (defined by a pair of CCR commands) to the targets specified by A, B, O, or OO, and retain these commands.

When you use the Copy Repeat commands, keep the following in mind:

- Do not use the Copy Repeat line command in conjunction with the Copy or Move line commands. If you do, SEU issues an error message.

- Specify only one block of records to be copied. If you specify more than one block of records, SEU issues an error message.

Example: Copying a Record More than Once
Type the CR line command in sequence number 0021.00, and type the A line command in sequence number 0024.00, as shown in Figure 60 on page 72.

```
Columns . . . :    1  71              Edit                    LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0020.00 Original record number 20
CR       This record (21) is copied
0022.00 Original record number 22
0023.00 Original record number 23
A        This record (24) is a target
0025.00 Original record number 25
        ****************** End of data ****************************************
```

Figure 60. Edit Display with Copy Repeat Command

Press Enter. SEU copies the record, places it immediately after record 0024.00,
and renumbers the records. The CR command remains on the display, as
shown in Figure 61.

```
Columns . . . :    1  71              Edit              Pending . . . . . :   CR
SEU==> _____
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0020.00 Original record number 20
CR       This record (21) is copied
0022.00 Original record number 22
0023.00 Original record number 23
0024.00 This record (24) is a target
0024.01 This record (21) is copied
0025.00 Original record number 25
        ****************** End of data ****************************************
```

Figure 61. Edit Display with Copied Record and Copy Repeat Command

To copy record 0021.00 again, specify a new target or targets. To clear the CR
command, type over it or press F5 = Refresh.

Delete Commands

You can delete a record or a block of records from a member by using the fol-
lowing Delete line commands:

Command	Description
D	Delete this record.
DD	Delete this block of records (defined by a pair of DD commands).
Dn	Delete *n* records, starting with this record.

When you use the Delete command, keep the following in mind:

- Use a large value for *n* in a D*n* line command to delete all the records fol-
  lowing (and including) the record where the D*n* line command is typed.

- You can process more than one Delete line command at the same time.

Example: Deleting a Block of Records

Type the DD line command in sequence numbers 0021.00 and 0024.00, as shown
in Figure 62 on page 73.

```
 ┌─────────────────────────────────────────────────────────────────────┐
 │  Columns . . . :   1  71            Edit            LIBRNAME01/FILENAME01 │
 │  SEU==> _____ MEMBNAME01  │
 │  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 │
 │  0019.00 Original record number 19                                      │
 │  0020.00 Original record number 20                                      │
 │  DD      This record (21) is deleted                                    │
 │  0022.00 This record (22) is deleted                                    │
 │  0023.00 This record (23) is deleted                                    │
 │  DD      This record (24) is deleted                                    │
 │  0025.00 Original record number 25                                      │
 │  0026.00 Original record number 26                                      │
 │  0027.00 Original record number 27                                      │
 │          ***************** End of data *********************************** │
 └─────────────────────────────────────────────────────────────────────┘
```

Figure 62. Edit Display with Block Delete Command

Press Enter. SEU deletes the records but does not renumber the records at this time, as shown in Figure 63.

```
 ┌─────────────────────────────────────────────────────────────────────┐
 │  Columns . . . :   1  71            Edit          . LIBRNAME01/FILENAME01 │
 │  SEU==> _____ MEMBNAME01  │
 │  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 │
 │  0019.00 Original record number 19                                      │
 │  0020.00 Original record number 20                                      │
 │  0025.00 Original record number 25                                      │
 │  0026.00 Original record number 26                                      │
 │  0027.00 Original record number 27                                      │
 │          ***************** End of data *********************************** │
 └─────────────────────────────────────────────────────────────────────┘
```

Figure 63. Edit Display with Records Deleted

To renumber the records, specify Y (Yes) for the *Resequence member* field on the Exit display. You can also specify either Y (Yes) or P ((Previous) if you specified Y in the previous SEU session)) for the *Resequence member default* field on the Change Session Defaults display.

You can also delete the same records by typing the D4 line command in sequence number 0021.00.

Insert Commands

You can insert blank lines in a member to add new records. You can add one or more blank lines by using the following line commands:

Command	Description
I	Insert a blank line below this record. Each time you type data on the blank line and press Enter, SEU inserts another blank line.
In	Insert *n* blank lines below this record. When you type data on the last inserted line and press Enter, SEU inserts another blank line.

Note: Other Insert line commands are described in the sections "Format and Insert-with-Format Commands" on page 87, "Prompt and Insert-with-Prompt Commands" on page 80, and "Skeleton and Insert Skeleton Commands" on page 90.

When you use the Insert commands, keep the following in mind:

- The I line commands are repeating commands. Each time you type data (including a blank) on the blank line of an I line command, or the last blank line of an In command, and press Enter, SEU inserts another blank line. This continues until you:
  - Press F5 = Refresh
  - Press Enter without changing the newly inserted line
  - Move the cursor off the line.

- If the value of *n* in an In line command is greater than the number of records below the record where you enter the line command, SEU supplies only the number of blank lines that can fit on the display.

- If you press F19 = Left or F20 = Right, SEU shifts the display left or right, but does not insert a new line until you press Enter.

Example: **Inserting a New Record**

Type the I line command in sequence number 0013.00, as shown in Figure 64.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0012.00 This is an existing record.
I       This is another existing record.
        ****************** End of data *****************************************
```

Figure 64. Edit Display with Insert Command

Press Enter. SEU inserts a blank line after record 0013.00, as shown in Figure 65.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0012.00 This is an existing record.
0013.00 This is another existing record.
'''''''
        ****************** End of data *****************************************
```

Figure 65. Edit Display with Blank Line Inserted

Type a statement on the blank line, as shown in Figure 66.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0012.00 This is an existing record.
0013.00 This is another existing record.
''''''' This is a new record.
        ****************** End of data *****************************************
```

Figure 66. Edit Display with New Record Typed In

Press Enter. SEU assigns sequence number 0014.00 to the record to create a source record, and provides another insert line, as shown in Figure 67 on page 75.

```
  Columns . . . :   1  71              Edit                LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0012.00 This is an existing record.
  0013.00 This is another existing record.
  0014.00 This is a new record.
  ''''''
            ***************** End of data ****************************************
```

Figure 67. Edit Display with New Record Entered and New Insert Line

Press Enter without typing any data on the new insert line. SEU deletes the
blank line, as shown in Figure 68.

```
  Columns . . . :   1  71              Edit                LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0012.00 This is an existing record.
  0013.00 This is another existing record.
  0014.00 This is a new record.
            ***************** End of data ****************************************
```

Figure 68. Edit Display with Insert Line Deleted

Move Commands

You can move a record or block of records to another location in a member or to
another member by using the following line commands:

Command	Description
M	Move this record to the target specified by A, B, O, or OO.
MM	Move this block of records (defined by a pair of MM commands) to the target specified by A, B, O, or OO.
Mn	Move *n* records, starting with this record, to the target specified by A, B, O, or OO.

You can type the line commands for a move operation in any order. For
example, you can type the target (A, B, O, or OO) line command before or after
typing the MM and MM line commands that identify the records to be moved.

Example: Moving a Block of Records

Type the MM line command in sequence numbers 0021.00 and 0024.00, and type
the A line command in sequence number 0026.00, as shown in Figure 69 on
page 76.

```
/                                                                          \
|  Columns . . . :   1  71              Edit            LIBRNAME01/FILENAME01  |
|  SEU==> _____ MEMBNAME01       |
|  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 |
|  0019.00 Original record number 19                                         |
|  0020.00 Original record number 20                                         |
|  MM      This record (21) is moved                                         |
|  0022.00 This record (22) is moved                                         |
|  0023.00 This record (23) is moved                                         |
|  MM      This record (24) is moved                                         |
|  0025.00 Original record number 25                                         |
|  A       Original record number 26                                         |
|  0027.00 Original record number 27                                         |
|          ****************** End of data ***************************************** |
\                                                                          /
```

Figure 69. Edit Display with Block Move Commands

Press Enter. SEU moves the records immediately after record 0026.00 and renumbers them, as shown in Figure 70.

```
/                                                                          \
|  Columns . . . :   1  71              Edit            LIBRNAME01/FILENAME01  |
|  SEU==> _____ MEMBNAME01       |
|  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 |
|  0019.00 Original record number 19                                         |
|  0020.00 Original record number 20                                         |
|  0025.00 Original record number 25                                         |
|  0026.00 Original record number 26                                         |
|  0026.01 This record (21) is moved                                         |
|  0026.02 This record (22) is moved                                         |
|  0026.03 This record (23) is moved                                         |
|  0026.04 This record (24) is moved                                         |
|  0027.00 Original record number 27                                         |
|          ****************** End of data ***************************************** |
\                                                                          /
```

Figure 70. Edit Display with Block of Records Moved

You can also move the same records by typing the M4 line command in sequence number 0021.00 and the B line command in sequence number 0027.00.

Example: Moving a Record More than Once

To move a record and repeat it at a target location (as if you moved the line and then copied it), type the M line command in sequence number 0022.00, and type the A2 line command in sequence number 0024.00, as shown in Figure 71.

```
/                                                                          \
|  Columns . . . :   1  71              Edit            LIBRNAME01/FILENAME01  |
|  SEU==> _____ MEMBNAME01       |
|  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 |
|  0021.00 Original record number 21                                         |
|  M       This record (22) is moved                                         |
|  0023.00 Original record number 23                                         |
|  A2      Original record number 24                                         |
|  0025.00 Original record number 25                                         |
|          ****************** End of data ***************************************** |
\                                                                          /
```

Figure 71. Edit Display with Move and Target Commands

Press Enter. SEU moves record 0022.00 twice after record 0024.00 and before record 0025.00 and renumbers them, as shown in Figure 72 on page 77.

```
Columns . . . :   1  71            Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0021.00 Original record number 21
0023.00 Original record number 23
0024.00 Original record number 24
0024.01 This record (22) is moved
0024.02 This record (22) is moved
0025.00 Original record number 25
        ****************** End of data ****************************************
```

Figure 72. Edit Display with Record Moved to Several Targets

Example: Using Move to Overlay a Single Record

To move a record to overlay another record, type the M line command in
sequence number 0004.00, and type the O line command in sequence number
0006.00, as shown in Figure 73.

```
Columns . . . :   1  71            Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0003.00 DCL I FIXED;
M       /**                        **/
0005.00 DCL J FIXED;
O       /*  LEN_STR: length of the string
0007.00 DCL LEN_STR FIXED;
        ****************** End of data ****************************************
```

Figure 73. Edit Display with Move and Overlay Commands

Press Enter. SEU overlays record 0006.00 with the nonblank data from record
0004.00, as shown in Figure 74.

```
Columns . . . :   1  71            Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0003.00 DCL I FIXED;
0004.00 /**                        **/
0005.00 DCL J FIXED;
0006.00 /** LEN_STR: length of the string*/
0007.00 DCL LEN_STR FIXED;
        ****************** End of data ****************************************
```

Figure 74. Edit Display with Record Overlaid but Not Removed

In this example, all nonblank characters from the Move command (record
0004.00) are not overlaid on the target (record 0006.00). Therefore, SEU performs
the Move/Overlay command but does not remove record 0004.00.

If all the nonblank characters from a Move command are overlaid on the target,
SEU performs the move and removes the record. Figure 75 on page 78 shows
all the nonblank characters of the Move command (record 0004.00) overlaid on a
target (record 0006.00) and the record removed.

```
  Columns . . . :    1  71            Edit            LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0003.00 DCL I FIXED;
  0005.00 DCL J FIXED;
  0006.00 /** LEN_STR: length of the str. **/
  0007.00 DCL LEN_STR FIXED;
          ****************** End of data ****************************************
```

Figure 75. Edit Display with Record Overlaid and Removed

Repeat Commands

You can repeat a record or block of records on the display one or more times. The Repeat command is similar to the Copy command, but does not require a target command (A, B, O, or OO). The Repeat command automatically repeats the record or block of records immediately below the original record or records.

Use the following line commands to repeat a record on the display:

Command	Description
RP	Repeat this record immediately below this record.
RPn	Repeat this record immediately below this record *n* times.
RPP	Repeat a block of records (defined by a pair of RPP commands) immediately below this block.
RPPn	Repeat a block of records (defined by a pair of RPP commands) *n* times immediately below this block.

Example: Repeating a Record

Type the RP line command in sequence number 0021.00, as shown in Figure 76.

```
  Columns . . . :    1  71            Edit            LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0020.00 Original record number 20
  RP      This record (21) is repeated
  0022.00 Original record number 22
  0023.00 Original record number 23
  0024.00 Original record number 24
  0025.00 Original record number 25
          ****************** End of data ****************************************
```

Figure 76. Edit Display with Repeat Command

Press Enter. SEU copies record 0021.00 and places it immediately after record 0021.00, as shown in Figure 77 on page 79.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│  Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01 │
│  SEU==> _____       MEMBNAME01     │
│  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 │
│  0020.00 Original record number 20                                           │
│  0021.00 This record (21) is repeated                                        │
│  0021.01 This record (21) is repeated                                        │
│  0022.00 Original record number 22                                           │
│  0023.00 Original record number 23                                           │
│  0024.00 Original record number 24                                           │
│  0025.00 Original record number 25                                           │
│         ****************** End of data *************************************** │
└─────────────────────────────────────────────────────────────────────────────┘
```

Figure 77. Edit Display with Record Repeated

Using Commands to Assist Entering New Data

SEU supports a variety of commands that make it easier to enter new data by inserting lines or prompts that can be used as templates for the new data. These commands are:

> Columns line
> Prompt, Insert with Prompt
> Format line, Insert with Format line
> Skeleton line, Insert Skeleton line
> Tabs line.

Columns Command

You can request a columns line on the display to make it easier to insert or edit source. The columns line numbers the columns across the display, even if you shift the display to the left or right by using the F19 = Left and F20 = Right keys.

Use the following line command to request SEU to show a free-format columns line:

Command   **Description**

COLS   Insert a columns line above this record.

Example: Displaying the Columns Line
Type the COLS line command in sequence number 0021.00, as shown in Figure 78.

```
┌─────────────────────────────────────────────────────────────────────────────┐
│  Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01 │
│  SEU==> _____       MEMBNAME01     │
│  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 │
│  0019.00 This is record 19.                                                  │
│  0020.00 This is record 20.                                                  │
│  COLS    This is record 21.                                                  │
│  0022.00 This is record 22.                                                  │
│         ****************** End of data *************************************** │
└─────────────────────────────────────────────────────────────────────────────┘
```

Figure 78. Edit Display with Columns Line Command

Press Enter. SEU places a columns line on the display, as shown in Figure 79 on page 80.

```
  Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0019.00 This is record 19.
  0020.00 This is record 20.
  FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0021.00 This is record 21.
  0022.00 This is record 22.
          ****************** End of data ****************************************
```

Figure 79. Edit Display with Columns Line

Prompt and Insert-with-Prompt Commands

You can request a prompt for any data record. A prompt separates and labels each field in a record, and is shown at the bottom of the current display. You can specify the prompt type with the Prompt command, or you can select the type by using the Select Prompt display command. For more information on using prompts and the Select Prompt display, see "Using High-Level-Language Prompts" on page 152.

Use the following line commands to place an existing record in a prompt:

Command	Description
P	Place this record in a prompt that has the same format as this record.
P?	Show the Select Prompt display to select a prompt type. Place this record in the prompt selected from that display.
Pff	Place this record in a prompt that has specified format *ff*. For example, type the PCB line command to place this record in a COBOL prompt.

You can also request a prompt for a new record. SEU inserts a blank line into the member, then places the blank line in a prompt at the bottom of the display.

Use the following line commands to insert a blank line and place it in a prompt:

Command	Description
IP	Insert a blank line after this record, and place the blank record in a prompt with the format of this record.
IP?	Show the Select Prompt display to select a prompt type. Insert a blank line after this record, and place the blank line in the prompt selected from that display.
IPff	Insert a blank line after this record, and place the blank record in a prompt with the specified format *ff*. For example, type the IPCB line command to insert a blank line after this record, and to place the record in a COBOL prompt.

When you use the Prompt line commands, keep the following in mind:

- The *ff* code is the 1- or 2-character type of the format identifier to be used in the prompt.

- When you use the P line command, SEU checks positions of the record to determine its prompt type based on the source type you are using.

- The prompt command is a repeating operation:

  - For the P and P*ff* commands, SEU places the next record in the prompt each time you press Enter.

  - For the IP and IP*ff* line commands, SEU inserts another blank line for the prompt each time you press Enter. SEU stops inserting blank lines and removes the IP command if you press Enter without entering any data to the current prompt.

- SEU continues to place records in the prompt until you:

  - Reposition the Edit display so the line in the prompt is not on the display
  - Press F5=Refresh or F12=Cancel
  - Reach the end of the member
  - Reach the beginning of the member by using F11 (Previous record).

- You cannot use the Prompt or Insert-with-Prompt commands in a split session.

- You can use four additional function keys on an Edit display with a prompt, as shown in Figure 80.

Figure 80. Function Keys for the Edit Display with Prompt

Key	Function
F11	Previous record. Press this key to place the previous record in a prompt.
F12	Cancel. Press this key to return to the Edit display without the prompt.
F23	Select prompt. Press this key to choose another prompt from the Select Prompt display.
Dup	Press this key to duplicate data on a field-by-field basis. When the cursor is in a field in the prompt, press the DUP key. SEU places the DUP character (*) in the field. When you press Enter, SEU replaces the DUP character with the contents of the equivalent field of the previous record.

Example: Using Prompts for Existing Records

Type the P line command in sequence number 0042.00, as shown in Figure 81 on page 82. Note that the display in this example has been shifted six columns to the left by a previously entered Window command. For more information, see "Window Commands" on page 99.

```
Columns . . . :   6  76           Edit            LIBRNAME01/FILENAME01
SEU==>  _____   MEMBNAME01
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBlinPosFunctions++++++++++++++++++++++++
0038.00 A                                   1  2'MAILING LIST TRANSACTION - +
0039.00 A                                      CONFIRMATION'
0040.00 A                                      DSPATR(HI)
0041.00 A                                   3  2'Batch Number'
P       A          BATNUM    R                 DSPATR(HI)
0043.00 A                                   5  2'Batch Header is coded as +
0044.00 A                                      being keyed.'
0045.00 A                                   7  2'If this is a +
0046.00 A                                      Recovery situation use F10.'
0047.00 A                                   9  2'If no recovery, press ENTER +
0048.00 A                                      to return to first prompt.'
0049.00 A          R SUBFIL                    TEXT('Sub File for Transactions'
0050.00 A                                      SFL
0051.00 A          TRNTYP    R       I 5  2
0052.00 A          XACTNM    R       I 5  4
0053.00 A          XACTTP    R       I 5 11
0054.00 A


 F3=Exit   F4=Prompt    F5=Refresh    F9=Retrieve    F10=Cursor
 F16=Repeat find         F17=Repeat change           F24=More keys
```

Figure 81. Edit Display with Prompt Command

Press Enter. SEU determines that the source type of the member is DSPF, and
that record 0042.00 is of type DP; therefore it provides the DP prompt, as shown
in Figure 82.

```
Columns . . . :   6  76           Edit            LIBRNAME01/FILENAME01
SEU==>  _____   MEMBNAME01
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBlinPosFunctions++++++++++++++++++++++++
0038.00 A                                   1  2'MAILING LIST TRANSACTION - +
0039.00 A                                      CONFIRMATION'
0040.00 A                                      DSPATR(HI)
0041.00 A                                   3  2'Batch Number'
0042.00 A          BATNUM    R                 DSPATR(HI)
0043.00 A                                   5  2'Batch Header is coded as +
0044.00 A                                      being keyed.'
 Prompt type . . .   DP      Sequence number . . .  0042.00

 And/Or/                     Name
 Comment    N01N02N03        Type       Name         Ref      Length
  _         _____         _        BATNUM___      R
 Data       Decimal                    --- Location ---                 _____
 Type       Positions        Use       Line    Position
  _          __              _          __      __
 Functions
 DSPATR(HI)_____

 F3=Exit   F4=Prompt    F5=Refresh       F11=Previous record
 F12=Cancel             F23=Select prompt  F24=More keys
```

Figure 82. Edit Display with Prompt for Existing Record

The fields in the DP prompt are separated and have labels that identify them.
Use the prompt to make additions or changes to fixed-form language types (for
example, RPG and DDS) where the fields must be in specific positions.

Notes:

1. You can type line commands under the field label *Sequence number* in the prompt just as you would type line commands in the *Sequence-number* field of the records being shown.

2. You can also request a prompt by positioning the cursor on the record you want to place in a prompt, and pressing F4 = Prompt.

Example: Using Prompts for New Records

Type the IPC line command in sequence number 0004.00, as shown in Figure 83.

```
 Columns . . . :   6  76            Edit              LIBRNAME01/FILENAME01
 SEU==>  _____ MEMBNAME01
 FMT F   FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U1....
         *************** Beginning of data ************************************
 0001.00 F*    SAMPLE PROGRAM 5
 0002.00 F*
 0003.00 FCUSMINQ  CF      E                    WORKSTN
 IPC     FCUSMSTL  IF            K              DISK
         ***************** End of data ***************************************
```

Figure 83. Edit Display with Insert-with-Prompt Command

Press Enter. SEU shows the prompt with the RPG calculation format, as shown in Figure 84.

```
 Columns . . . :   6  76            Edit          \   LIBRNAME01/FILENAME01
 SEU==>  _____ MEMBNAME01
 FMT F   FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U1....
         *************** Beginning of data ************************************
 0001.00 F*    SAMPLE PROGRAM 5
 0002.00 F*
 0003.00 FCUSMINQ  CF      E                    WORKSTN
 0004.00 FCUSMSTL  IF            K              DISK
 '''''''

         ***************** End of data ***************************************



 Prompt type . . .    C       Sequence number . . . _'''''''

 Level     N01N02N03  Factor 1      Operation      Factor 2     Result
                                \
  __                  _____   _____         _____     _____
            Decimal   _____   _____         _____     _____
 Length     Positions   H/N/P   HI  LO  EQ     Comment
  __        _           __    __  __  __       _____
                                              \
 F3=Exit    F4=Prompt   F5=Refresh          F11=Previous record
 F12=Cancel             F23=Select prompt  \ F24=More keys
```

Figure 84. Edit Display with RPG Calculation Prompt

Example: Using Prompts for CL Commands

If you use the P line command (or press F4) when you are editing CL commands of source type CL, CL38, CLP, CLP38, CMD, or CMD38, SEU requests a command prompt.

For example, assume that you request a prompt for a record that contains the following CL command:

```
OVRDBF FILE(LPEOPLE) MBR(MEMBER)
```

Note: If you are working with a CL source member and use the *Pff* command, SEU displays the CL command in the prompt. To modify the CL command, press F4 for the command prompt and complete the command.

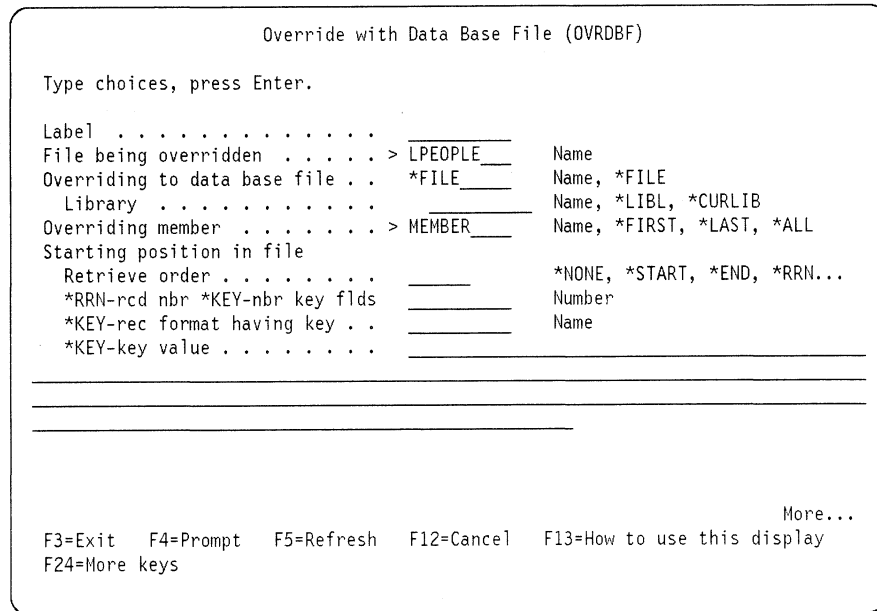The command appears as it currently exists, as shown in Figure 85.

```
┌────────────────────────────────────────────────────────────────────────────┐
│                   Override with Data Base File (OVRDBF)                      │
│                                                                              │
│  Type choices, press Enter.                                                  │
│                                                                              │
│  Label  . . . . . . . . . . . . .   _____                               │
│  File being overridden  . . . . . > LPEOPLE___    Name                       │
│  Overriding to data base file . .   *FILE_____    Name, *FILE                │
│    Library  . . . . . . . . . . .   _____    Name, *LIBL, *CURLIB       │
│  Overriding member  . . . . . . . > MEMBER____    Name, *FIRST, *LAST, *ALL  │
│  Starting position in file                                                   │
│    Retrieve order . . . . . . . .   _____         *NONE, *START, *END, *RRN... │
│    *RRN-rcd nbr *KEY-nbr key flds   _____    Number                     │
│    *KEY-rec format having key . .   _____    Name                       │
│    *KEY-key value . . . . . . . .   _____        │
│                                                                              │
│   _____        │
│   _____                           │
│                                                                              │
│                                                                              │
│                                                                    More...   │
│  F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display │
│  F24=More keys                                                               │
│                                                                              │
└────────────────────────────────────────────────────────────────────────────┘
```

Figure 85. Override with Data Base File (OVRDBF) Prompt Display

The command prompt shows the values you entered on the Edit display and default values for the command. You can complete the command using the command prompt. When you return to the Edit display, the record is reformatted to suit its type.

You can type selective prompt characters (such as ?? or ?*) in your CL command before or after calling for a prompt. On the Command Prompt display, the selective prompt characters are shown in front of the input field associated with each keyword. Add selective prompt characters and change existing ones by typing the new selective prompt characters in the first two positions of the input field for a keyword. If a keyword has more than one input field, use any field.

To remove existing selective prompt characters, use the characters ? —. Blanks cannot be entered between the selective prompt characters and the keyword. By pressing F14, you can show the command string, any specified parameters, and any selective parameters for selective prompts.

For more information on using command prompts with SEU, see "Using Command Prompts" on page 151. For a detailed description of command prompts, and selective prompt characters, refer to the *CL Programmer's Guide*.

Example: Using Prompts and Help for BASIC Commands and Statements

If you use the P line command (or press F4) when you are editing BASIC commands or statements of source type BAS, BAS38, BASP, or BASP38, SEU requests a BASIC help menu.

For example, assume that you request a prompt for the following BASIC statement:

```
100 WRITE #2, USING SCREEN: KEY$ ! Example of WRITE statement
```

The BASIC help menu shows the statement as it currently exists, and provides detailed help text, as shown in Figure 86.

```
WRITE                    Help for the WRITE Statement                1 of 3

    WRITE #f{,using}{,pos}{,fmt}{,descr}{,ind}: {expr-list} {error}

    f             - a numeric expression from 1 to 255.
    using         - either USING char-expr or USING line-ref
    pos           - REC=num-expr.
    fmt           - FORMAT char-expr
    descr         - EXTDESCR 'format-name'
    ind           - INDIC ind-expr.
    ind-expr      - '1' for each indicator that is on.
    expr-list     - expressions and/or MAT array-names.


Next help topic:          _____

===> 100 WRITE #2, USING SCREEN: KEY$ ! Example of a WRITE Statement_____
_____
_____
_____
_____
_____

 F1=Help   F3=Exit   F4=Prompt   F7=Page up   F8=Page down   F12=Cancel
```

Figure 86. Help for the WRITE Statement Display

Using the information in the help text, complete or modify this BASIC statement. When you press Enter to exit from the prompt, SEU places the revised BASIC statement into the member you are editing.

Refer to the *BASIC User's Guide and Reference* for detailed information on entering BASIC programs, procedures, and data.

Example: Using Prompts for Embedded SQL Statements

If you use the P line command (or press F4) when you are editing an embedded SQL statement in source types CICSSQLCBL, SQLCBL, SQLRPG, and SQLFTN, SEU requests an SQL prompt.

For example, Figure 87 on page 86 shows an embedded SQL statement in a COBOL member.

```
Columns . . . :   1  71              Edit            LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT CB ......-A+++B+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
         *************** Beginning of data ***********************************
0001.00           MOVE A TO B.
SQL               EXEC SQL
SQL               CREATE COLLECTION ABC
SQL               END-EXEC.
0005.00           MOVE A TO B.
SQL               EXEC SQL
         ****************** End of data ***************************************
```

Figure 87. COBOL Source with Embedded SQL Statement

If you use the P command or press F4 = Prompt in sequence numbers 0001.00,
0002.00, 0004.00, or 0005.00, SEU calls COBOL prompting for these lines. An IP
command in sequence numbers 0001.00, 0003.00, 0004.00, or 0005.00 inserts lines
with COBOL prompting being performed after that line. An IP command in
sequence number 0003.00 will result in an improper SQL statement if you enter a
regular COBOL statement during prompting.

If you use the P command or press F4 = Prompt in sequence number 0003.00,
SEU calls SQL prompting on that line. An IP command in sequence number
0006.00 calls SQL prompting. If a valid SQL statement is then entered in the
prompt, the member is returned as shown in Figure 88.

```
Columns . . . :   1  71              Edit            LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT CB ......-A+++B+++++++++++++++++++++++++++++++++++++++++++++++++++++++++
         *************** Beginning of data ***********************************
0001.00           MOVE A TO B.
SQL               EXEC SQL
SQL               CREATE COLLECTION ABC
SQL               END-EXEC.
0005.00           MOVE A TO B.
SQL               EXEC SQL
SQL               CLOSE DEF
SQL               END-EXEC
         ****************** End of data ***************************************
```

Figure 88. COBOL Source with Inserted SQL Statement

If the inserted line follows an EXEC SQL line, a blank line is passed to the SQL
prompter instead of performing COBOL prompting. If a new SQL statement is
returned to SEU, that new statement is inserted after the EXEC SQL line and a
new END-EXEC is added by SEU if one does not already exist (record 0008.00)
after the inserted line. The cursor is placed in the line command area of the
END-EXEC line.

Notes:

- SQL FORTRAN does not have closing delimiters so none will be added in
  SQL FORTRAN.

- The insert-with-prompt function is designed for users inserting new SQL
  statements as opposed to modifying existing ones. To modify existing
  SQL statements, it is recommended that you do not use the insert-with-
  prompt command.

- Multiple statements cannot be entered between SQL delimiters.

- Members of type CICSSQLCBL can have embedded CICS and SQL statements in the COBOL source. The lines that contain CICS statements must begin with EXEC CICS, and end with END-EXEC.

  The SQL prompting is done for SQL statements only. Statements that are CICS or AS/400 COBOL receive COBOL prompting. If an SQL statement is in a CICS statement, the SQL statement is invalid, and will receive COBOL prompting.

Since SQL only allows one SQL statement between a pair of SQL delimiters, SEU will treat all data between these lines as one SQL statement and will view data returned by the SQL prompter as one SQL statement.

Since SQL prompting takes you to a new display, SEU follows the same conventions as for CL and BASIC and continuous prompting is ended after an SQL prompt has been displayed.

SQL statements in host language programs are identified as follows:

- SQLCBL and CICSSQLCBL. Each SQL statement is preceded by an EXEC SQL delimiter and followed by an END-EXEC delimiter. These SQL delimiters must be the only entry on the line in which they occur or SEU will not recognize them.

- SQLFTN. Each SQL statement is preceded by an EXEC SQL delimiter. This delimiter must be the only entry on the line in which it occurs or SEU will not recognize it as a delimiter. SQL FORTRAN statements do not have closing SQL delimiters.

- SQLRPG. Each SQL statement is preceded by a C/EXEC SQL delimiter and followed by a C/END-EXEC delimiter. Each line between the SQL delimiters has a C+ in columns 6 and 7. The C/END-EXEC delimiter must be the only entry on the line in which it occurs.

Note: The rules for processing DBCS data across multiple lines in prompts, in such a way as to allow entering one continuous DBCS character string, are the same as those adopted by the Interactive SQL Utility. Each line must contain as many shift-in characters as shift-out characters. If during formatting, however, the prompter finds that the very last column on a line contains a shift-in and the very first column of the next line contains a shift-out, the shift-in and shift-out characters are removed by the prompter when the two lines are assembled. Also, if the last two columns of a line contain a shift-in followed by a single-byte blank, and the very first column of the next line contains a shift-out, the shift-in, blank, shift-out sequence is removed by the prompter when the two lines are assembled.

An unavoidable situation can arise as a result of the rules above. When a DBCS character string must be continued on more than one source line, additional shift-out and shift-in characters may be inserted by the prompter.

Format and Insert-with-Format Commands

You can insert a format line on the display to help you type or edit records in the member. A format line is shown immediately above the record you are editing or creating, and labels the fields in the record according to the source type. You can specify the source type with the Format command, or you can select the type by using the Select Format display. For more information on using format lines and the Select Format display, see "Using Format Lines" on page 156.

Use the following line commands to request SEU to show a format line. The format line appears above the line with the Format command.

Command	Description
F	Insert a format line above this record with the same format as the record.
F?	Show the Select Format display. Insert a format line above this record with the format type selected from that display.
Fff	Insert a format line above this record that has the specified format *ff*. For example, type the FCB line command to insert a COBOL format line above this record.

You can also request SEU to insert a format line followed by one or more blank lines for new records.

Use the following Insert-with-Format commands to insert a format line and one or more blank lines. The format line and blank lines are inserted after the line with the Insert-with-Format command.

Command	Description
IF	Insert a format line and one blank line below this record. The format line has the format of this record. Each time you type data on the blank line and press Enter, SEU inserts another blank line.
IFn	Insert a format line and *n* blank lines below this record. The format line has the format of this record.
IF?	Show the Select Format display to select a specific format. Insert a format line below this record with the format selected from that display. Insert a blank line below the format line.
IFff	Insert a format line and one blank line below this record. The format line has the specified format *ff*. Each time you type data on the blank line and press Enter, SEU inserts another blank line. For example, type the IFCB line command to insert a COBOL format line, and a blank record below it.
IFffn	Insert a format line and *n* blank lines below this record. The format line has the specified format *ff*.

When you use the Format or Insert-with-Format line commands, keep the following in mind:

- The code *ff* is a 1- or 2-character format identifier of the format to be displayed. When you do not specify a format identifier, SEU examines the record and determines the format based on the source type you are using.

- The format lines are only temporary records and are not part of the source member. Use the D line command or press F5 = Refresh to delete them while in the edit session. SEU ignores remaining format lines when it saves the changed member. (A D*n* command will do the same as a D command when specified on a format line.)

- The third line of the Edit display is an automatic format line. SEU automatically shows this format line based on the member source type and the type of the first data record below it.

- The IF and IFff line commands are repeating commands. Each time you type data on the blank line and press Enter, SEU inserts a blank line. This continues until you end the edit session, press F5 = Refresh, or move the cursor off the insert line and press any key.

Example: Inserting a Format Line

In the C program segment shown in Figure 89, type the F line command in sequence number 0023.00.

```
  Columns . . . :   1  71           Edit           LIBRNAME01/FILENAME01
  SEU==>                                                          MEMBNAME01
  FMT C    .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0014.00        H***************************************************
  0015.00        FCUSMSTL IF  E           K        DISK
  0016.00        FORDFILL UF  E           K        DISK
  0017.00        6FRD400D 12  E                    WORKSTN
  0018.00        F        G   SSSSSSSSSS                SFNUM KSFILE SFDATA
  0019.00        C            START    TAG
  0020.00        C            '   '    POST           DSPSTT
  0021.00        C            'B18'    POST           DSPSTT
  0022.00
  F              C            'B12'    POST           DSPSTT
  0024.00        C                     RETRN
  0025.00        C                     EXFMTEVOKE
                 ***************** End of data ****************************************
```

Figure 89. Edit Display with Format Line Command

Press Enter. SEU determines that the source type of record 0023.00 is C and inserts the FMT C format line above record 0023.00, as shown in Figure 90.

```
  Columns . . . :   1  71           Edit           LIBRNAME01/FILENAME01
  SEU==>                                                          MEMBNAME01
  FMT C    .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0014.00        H***************************************************
  0015.00        FCUSMSTL IF  E           K        DISK
  0016.00        FORDFILL UF  E           K        DISK
  0017.00        6FRD400D 12  E                    WORKSTN
  0018.00        F        G   SSSSSSSSSS                SFNUM KSFILE SFDATA
  0019.00        C            START    TAG
  0020.00        C            '   '    POST           DSPSTT
  0021.00        C            'B18'    POST           DSPSTT
  0022.00
  FMT C    .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0023.00        C            'B12'    POST           DSPSTT
  0024.00        C                     RETRN
  0025.00        C                     EXFMTEVOKE
                 ***************** End of data ****************************************
```

Figure 90. Edit Display with C Format Line

The format line lists the abbreviated titles of the fields. Use the format line to check that values are in the correct positions or to help you add or change values in the record.

Example: Inserting Blank Lines with a Format Line

Type the IFF2 line command in sequence number 0016.00 to request two blank lines under an F format line, as shown in Figure 91 on page 90.

```
  Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0014.00      H***************************************************
  0015.00      FCUSMSTL IF  E          K         DISK
  IFF2         FORDFILL UF  E          K         DISK
  0017.00      6FRD400D 12  E                    WORKSTN
  0018.00      F        G  SSSSSSSSSS                 SFNUM KSFILE SFDATA
  0019.00      C            START    TAG
  0020.00      C            '   '    POST         DSPSTT
  0021.00      C            'B18'    POST         DSPSTT
  0022.00
  FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0023.00      C            'B12'    POST         DSPSTT
  0024.00      C                     RETRN
  0025.00      C                     EXFMTEVOKE
          ***************** End of data *****************************************
```

Figure 91. Edit Display with Insert-with-Format Command

Press Enter. SEU inserts the F format line followed by two blank lines, as shown in Figure 92.

```
  Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0014.00      H***************************************************
  0015.00      FCUSMSTL IF  E          K         DISK
  0016.00      FORDFILL UF  E          K         DISK
  FMT F  .....FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U
  ' ' ' ' ' ' '
  ' ' ' ' ' ' '
  0017.00      6FRD400D 12  E                    WORKSTN
  0018.00      F        G  SSSSSSSSSS                 SFNUM KSFILE SFDATA
  0019.00      C            START    TAG
  0020.00      C            '   '    POST         DSPSTT
  0021.00      C            'B18'    POST         DSPSTT
  0022.00
  FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0023.00      C            'B12'    POST         DSPSTT
  0024.00      C                     RETRN
```

Figure 92. Edit Display with F Format Line and Insert Lines

Skeleton and Insert Skeleton Commands

You can define a line of data you type repeatedly as a skeleton line. Once you have defined the line, you can insert it into the member as you need it. You can keep the same data or use the line as a template to enter new data.

Use the following line commands to create and insert skeleton lines:

Command	Description
S	Define the contents of this line as the skeleton line.
IS	Insert the current skeleton line below this record.
ISn	Insert the current skeleton line *n* times below this line.

When you use the Skeleton line command, keep the following in mind:

• After you have selected a line as the skeleton line, SEU keeps it as the skeleton line until you specify another line.

- You must type data (or a blank) on an inserted skeleton line and press Enter to make it part of the member.

- If you type the S line command in a sequence number and then move the cursor to any column position of the record in the same line before you press Enter, SEU remembers the cursor position in the record for all subsequent Insert Skeleton commands with that skeleton line.

- If the sequence number area already contains the characters SQL or SOSI, you must type the S line command in the first column and follow it with at least one blank.

Example: Creating and Inserting a Skeleton Line

Type the S line command in sequence number 0022.00, and type the IS line command in sequence number 0025.00, as shown in Figure 93.

```
 Columns . . . :    1  71            Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 S        Name-1         Address-1      City-1        State-1
 0023.00    Zipcode-1      Phone-1        Status-1
 0024.00 Name-2         Address-2      City-2        State-2
 IS         Zipcode-2      Phone-2        Status-2
         ****************** End of data ****************************************
```

Figure 93. Edit Display with Skeleton and Insert Skeleton Commands

Press Enter. Record 0022.00 is stored as the skeleton line and is inserted after record 0025.00, as shown in Figure 94.

```
 Columns . . . :    1  71            Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 0022.00 Name-1         Address-1      City-1        State-1
 0023.00    Zipcode-1      Phone-1        Status-1
 0024.00 Name-2         Address-2      City-2        State-2
 0025.00    Zipcode-2      Phone-2        Status-2
 ''''''' Name-1         Address-1      City-1        State-1
         ****************** End of data ****************************************
```

Figure 94. Edit Display with Skeleton Line Inserted

You can now type values on the skeleton line, using it as a template for lines with similar contents.

Tabs Command

You can show a line on the display that indicates the current tab settings by using the following line command:

Command	Description
TABS	Set and show the tabs for the display.

When you use the Tabs command, keep the following in mind:

- To set tabs, type any characters in the columns where you want them. SEU converts each character to a dash (−) when it creates the tabs line.

- SEU does not create tabs for two consecutive columns.

- You must specify Y (Yes) for the *Tabs on* prompt on the Change Session Defaults display to use the tabs you set. After you have set the tabs, they remain on the Edit display until you clear them, reset them, or turn them off, even if you exit from SEU.

- To clear tabs, blank out the characters (−) indicating their positions, and press Enter.

- To set new tabs, enter characters in the new positions.

- To temporarily turn the tabs off, specify N (No) for the *Tabs on* prompt on the Change Session Defaults display.

  Note: You can type SET TABS ON or SET TABS OFF on the SEU command line instead of using the Change Session Defaults display. See "Tailoring Your Session Defaults" on page 117 for more details.

- To move the cursor from one tab position to the next tab position, press Enter.

- To remove the tabs line from the display, press F5 = Refresh or use the D line command. To show the tabs line again, type TABS.

Example: Inserting a Tabs Line

Type the TABS command in sequence number 0016.00, as shown in Figure 95.

```
  Columns . . . :   1  71          Edit              LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0014.00 This is a record
  0015.00 This is a record
  TABS    This is a record
  0017.00 This is a record
  0018.00 This is a record
  0019.00 This is a record
          ***************** End of data ****************************************
```

Figure 95. Edit Display with Tabs Command

Press Enter. SEU displays a blank tabs line, as shown in Figure 96.

```
  Columns . . . :   1  71          Edit              LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0014.00 This is a record
  0015.00 This is a record
  TABS
  0016.00 This is a record
  0017.00 This is a record
  0018.00 This is a record
  0019.00 This is a record
          ***************** End of data ****************************************
```

Figure 96. Edit Display with Blank Tabs Line

Type a character for each tab setting you want on the tabs line, as shown in Figure 97 on page 93.

```
Columns . . . :   1  71              Edit                LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0014.00 This is a record
0015.00 This is a record
TABS            $$$      &      *      6
0016.00 This is a record
0017.00 This is a record
0018.00 This is a record
0019.00 This is a record
        ****************** End of data ****************************************
```

Figure 97. Edit Display with Tab Settings Typed

Press Enter. SEU replaces each character you typed with a dash (−) to create a tabs line, as shown in Figure 98.

```
Columns . . . :   1  71              Edit                LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0014.00 This is a record
0015.00 This is a record
TABS            - -      -      . -      -
0016.00 This is a record
0017.00 This is a record
0018.00 This is a record
0019.00 This is a record
        ****************** End of data ****************************************
```

Figure 98. Edit Display with Tabs Line

Figure 97 shows tabs typed in columns 10, 11, and 12. Because SEU does not set tabs for consecutive columns, SEU sets tabs only for columns 10 and 12, as shown in Figure 98. These tab settings remain in effect until you reset them or turn them off by using the SET TABS OFF command or by using the Change Session Defaults display. Press Enter to move from one tab position to the next.

Using Commands to Change the Display

You can change which records or which part of the records you see on the display by using the following line commands:

Absolute position
Exclude
Shift
Show
Relative position
Window.

Absolute Positioning Command

You can reposition the records in the member to show the section you want to edit or browse. Use the following line commands to cause the next display to begin with the specified record:

Command	Description
n	Position record *n*.00 as the first record on the display.
.n	Position record 0.*n* as the first record on the display.
n.n	Position record *n.n* as the first record on the display.

If the member does not contain a record with the exact sequence number you specify, SEU positions the record with the next smallest sequence number as the first record on the display. If no record has a lower sequence number, SEU shows the beginning of the member, with the beginning-of-data record positioned as the first record on the display.

Notes:

1. If a blank appears in an Absolute Positioning command, SEU uses only the numbers to the left of the first blank to reposition the display.

2. Absolute Positioning commands cannot be entered in a sequence number that contains another type of line command.

Example: Positioning to a Sequence Number

To position the display to a specific sequence number, type the new sequence number value in any sequence number field.

When you use an Absolute Positioning command to position a record, you must press Field Exit to clear the remaining digits or insert a blank following the command. If this is not done, SEU interprets all the digits following the command as part of the positioning number.

Figure 99 shows the results of using various Absolute Positioning commands. The characters in boldface under the second column in the figure are Absolute Positioning commands.

Figure 99. Absolute Positioning Commands and Their Effects

Original Sequence Number	Sequence Number with Line Command	Result
1003.00	2003.00	Record 2003.00 is positioned at the top of the display.
1345.67	1345.**25**	Record 1345.25 is positioned at the top of the display.
1003.00	**2** 03.00	Record 0002.00 is positioned at the top of the display.
1003.00	**02** .00	This is not a valid Absolute Positioning command because there is no number to the left of the first blank. SEU ignores the line command.
1003.00	20**C**3.00	An Absolute Positioning command is combined with a C (Copy) line command. SEU recognizes the Copy line command, but ignores the absolute positioning command.

Exclude and Show Commands

You can exclude one or more records from appearing on the display with the Exclude command. The selected records are not shown on the display, but remain in the member. A special record appears with a message stating how many records are excluded from the display.

Use the following line commands to exclude records from the display:

Command	Description
X	Exclude this record from the display.
Xn	Exclude this and the next *n* records from the display.
XX	Exclude this block of records (defined by a pair of XX commands) from the display.

To display records that you previously excluded by using the EXCLUDE command or hid by using the HIDE command, use the following Show commands:

Command	Description
SF	Show the first record in the group of excluded records.
SFn	Show the first *n* records in the group of excluded records.
SL	Show the last record in the group of excluded records.
SLn	Show the last *n* records in the group of excluded records.

When you use the Exclude or Show commands, keep the following in mind:

- You can use the Exclude line command with the Find/Change Options display to search only parts of a member. For more information, see "Using the Find/Change Options Display" on page 48.

- You must type the Show line commands on special records.

- Press F5 = Refresh to show all excluded records.

- Line commands consider a group of excluded records as one record.

- Syntax checking is not affected by the Exclude line command. If you specify a range of lines on the Change Session Defaults display, all lines in the range are checked, including any lines you excluded. If any of the excluded lines have errors, SEU includes the lines again and lists the errors.

Example: Excluding Records from the Display

Type the X4 line command in sequence number 0013.00, as shown in Figure 100.

```
  Columns . . . :   1  71             Edit            LIBRNAME01/FILENAME01
  SEU==> _____ MEMBNAME01
  FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0012.00 This is a record
  X4      This is the first record to be excluded
  0014.00 This is the second record to be excluded
  0015.00 This is the third record to be excluded
  0016.00 This is the fourth record to be excluded
  0017.00 This is a record
  0018.00 This is a record
  0019.00 This is a record
          ***************** End of data ****************************************
```

Figure 100. Edit Display with Exclude Commands

Press Enter. SEU excludes the records and inserts the data-records-excluded special record, as shown in Figure 101 on page 96.

```
 Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 0012.00 This is a record
 - - - - ------------- 4 data records excluded --------------------------------
 0017.00 This is a record
 0018.00 This is a record
 0019.00 This is a record
         ****************** End of data ****************************************
```

Figure 101. Edit Display with Records Excluded

Example: Showing Excluded Records

Type the SF2 command on the data-records-excluded line, as shown in
Figure 102.

```
 Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 0012.00 This is a record
 SF2     ------------- 4 data records excluded --------------------------------
 0017.00 This is a record
 0018.00 This is a record
 0019.00 This is a record
```

Figure 102. Edit Display with Show Command

Press Enter. SEU shows the first two excluded records, as shown in Figure 103.

```
 Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
 0012.00 This is a record
 0013.00 This is the first record to be excluded
 0014.00 This is the second record to be excluded
 - - - - ------------- 2 data records excluded --------------------------------
 0017.00 This is a record
 0018.00 This is a record
 0019.00 This is a record
         ****************** End of data ****************************************
```

Figure 103. Edit Display with Previously Excluded Records Shown

To show all excluded records, press F5 = Refresh.

Relative Positioning Commands

You can roll the member to edit or browse another portion of the member by
using the following line commands:

Command	Description
+	Roll the member forward one line on the display.
+n	Roll the member forward *n* lines on the display.
—	Roll the member backward one line on the display.
—n	Roll the member backward *n* lines on the display.

You can also use the Page Up and Page Down keys to position the records.

Shift Commands

You can shift the data in a record or block of records right or left. Use the Shift command if you want to shift the data but do not want to truncate it.

Use the following line commands to shift data without truncating it:

Command	Description
L	Shift the data in this record left one position.
Ln	Shift the data in this record left *n* positions.
LL	Shift the data in this block of records (defined by a pair of LL commands) left one position.
LLn	Shift the data in this block of records (defined by a pair of LL commands) left *n* positions.
R	Shift the data in this record right one position.
Rn	Shift the data in this record right *n* positions.
RR	Shift the data in this block of records (defined by a pair of RR commands) right one position.
RRn	Shift the data in this block of records (defined by a pair of RR commands) right *n* positions.

When you use the Shift line command, keep the following in mind:

- If you request a shift value that would shift data off the end of the record, SEU shifts the data as far as possible and places the word SHIFT in the *Sequence-number* field of the record or records that it could not completely shift.

- For a block shift, you can type the *n* on either block command.

Example: Shifting a Single Record

Type an R10 line command in sequence number 0026.00, and type an L10 line command in sequence number 0028.00, as shown in Figure 104.

```
Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
 SEU==> _____  MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0025.00         This is record number 25
R10             This record has the Shift Right command
0027.00         This is record number 27
L10             This record has the Shift Left command
0029.00         This is record number 29
        ***************** End of data ***************************************
```

Figure 104. Edit Display with Shift Command

Press Enter. SEU shifts the data in record 0026.00 right 10 positions, and attempts to shift the data in record 0028.00 left 10 positions. SEU cannot shift record 0028.00 left 10 positions without truncating nonblank data. It shifts the data as many positions as it can, and places a SHIFT indicator in sequence number 0028.00, as shown in Figure 105 on page 98.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0025.00            This is record number 25
0026.00                      This record has the Shift Right command
0027.00            This is record number 27
SHIFT   This record has the Shift Left command
0029.00            This is record number 29
        ****************** End of data ****************************************
```

Figure 105. Edit Display with Records Shifted

To clear the SHIFT indicator, modify the record or press F5 = Refresh.

Example: Shifting a Block of Records

Type the RR line command in sequence number 0026.00 to indicate the beginning of the block. Type the RR5 line command in sequence number 0029.00 to indicate the end of the block and to tell SEU to shift the data 5 positions to the right. The display appears as shown in Figure 106.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0025.00            This is record number 25
RR                 This record has the first RR command
0027.00            This is record number 27
0028.00            This is record number 28
RR5                This record has the second RR command
0030.00            This is record number 30
        ****************** End of data ****************************************
```

Figure 106. Edit Display with Block Shift Commands

Press Enter. SEU shifts the block of records, as shown in Figure 107.

```
Columns . . . :   1  71              Edit              LIBRNAME01/FILENAME01
SEU==> _____  MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0025.00            This is record number 25
0026.00                      This record has the first RR command
0027.00                      This is record number 27
0028.00                      This is record number 28
0029.00                      This record has the second RR command
0030.00            This is record number 30
        ****************** End of data ****************************************
```

Figure 107. Edit Display with Block of Records Shifted

Shift-with-Truncate Commands

You can shift data right or left in the records and allow data to be truncated if necessary. Use the following Shift-with-Truncate line commands to perform these operations:

Command	Description
LT	Shift the data in this record one position to the left, possibly losing data off the beginning of the record.
LTn	Shift the data in this record *n* positions to the left, possibly losing data off the beginning of the record.

LLT	Shift the data in the block of records (defined by a pair of LLT commands) one position to the left, possibly losing data off the beginning of the record.
LLTn	Shift the data in the block of records (defined by a pair of LLT commands) *n* positions to the left, possibly losing data off the beginning of the record.
RT	Shift the data in this record one position to the right, possibly losing data off the end of the record.
RTn	Shift the data in this record *n* positions to the right, possibly losing data off the end of the record.
RRT	Shift the data in the block of records (defined by a pair of RRT commands) one position to the right, possibly losing data off the end of the record.
RRTn	Shift the data in the block of records (defined by a pair of RRT commands) *n* positions to the right, possibly losing data off the end of the record.

Example: Shifting Data Off the Display

Type an LT5 line command in sequence number 0025.00, as shown in Figure 108.

```
Columns . . . :   1  71          Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0024.00
LT5      The first 5 characters of this record are truncated
0026.00
        ***************** End of data ****************************************
```

Figure 108. Edit Display with Shift-with-Truncate Command

Press Enter. SEU shifts the data in the record 5 positions to the left, truncating the first 5 characters, as shown in Figure 109.

```
Columns . . . :   1  71          Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
0024.00
0025.00 irst 5 characters of this record are truncated
0026.00
        ***************** End of data ****************************************
```

Figure 109. Edit Display with Truncated Record

Note: Data is not considered to be lost with a Shift-with-Truncate command, if only blanks are shifted off the record.

Window Commands

You can control the horizontal position of the data on the display, allowing you to view different sections of a record. Use the following Window line commands to perform this operation:

Command	Description
W	Show data position 1 of the records as the first position of the display.

Wn   Show data position *n* of the records as the first position of the display.

In addition to the Window line commands, you can also press F19 = Left and F20 = Right to move the display horizontally.

If you specify an *n* that is larger than the total number of positions in your record, SEU shows the last positions in the record, which includes the date.

Example: Changing the Horizontal Position

Type the W6 line command in sequence number 0022.00, as shown in Figure 110.

```
  Columns . . . :   1  71          Edit           LIBRNAME01/FILENAME01
  SEU==>                                                     MEMBNAME01
  FMT **  ...+.... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  W6      12345678900000000002000000000300000000040000000005000000000600000000007
  0023.00 12345678900000000002000000000300000000040000000005000000000600000000007
  0024.00 12345678900000000002000000000300000000040000000005000000000600000000007
          ***************** End of data ****************************************
```

Figure 110. Edit Display with Window Command

Press Enter. SEU repositions the display so that data in column 6 appears as the first position, as shown in Figure 111.

```
  Columns . . . :   6  76          Edit           LIBRNAME01/FILENAME01
  SEU==>                                                     MEMBNAME01
  FMT **  ... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ... + .
  0022.00 678900000000002000000000300000000040000000005000000000600000000007
  0023.00 678900000000002000000000300000000040000000005000000000600000000007
  0024.00 678900000000002000000000300000000040000000005000000000600000000007
          ***************** End of data ****************************************
```

Figure 111. Edit Display with Records Windowed

Summary of Rules for Entering Line Commands

Follow these rules when entering line commands:

- Type the line command anywhere in the *Sequence-number* field.

  If the sequence number area does not contain a sequence number, however, type the line command starting in the first position of the sequence number area followed by a blank.

- Type suffixes (numbers or format identifiers) immediately after the command. Do not type a blank between the code and the suffix. For example, type D3 (not Db3) or FP (not FbP).

- Use only the following line commands on a format or tabs line: D, W*n*, +*n*, −*n*, and *n*.

- Use only the following line commands on the beginning-of-data display line: A, A*n*, W*n*, +*n*, −*n*, *n*, I, I*n*, IP, IP*ff*, IF, IF*n*, IF*ff*, IF*ffn*, IS, and IS*n*.

- Use only the following line commands on the end-of-data display line: B, B*n*, W*n*, +*n*, −*n*, and *n*.

SEU issues an error message if you enter an invalid line command. To continue processing, you must correct the error, type over it to blank it out, or press F5 = Refresh.

For a list of the valid line commands for each display, see "Summary of Valid Line Commands" on page 104.

Performing More Than One Operation

You can perform more than one operation at the same time if the line commands you type do not conflict. For example, you can type a Delete (D) line command, a Block Move (MM MM) and Before (B) target line commands, and a Relative Position (+n) line command on the same display. SEU performs all three operations when you press any positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right.

Overlapping Commands

Certain line commands cannot overlap. Overlapping occurs when two or more line commands affect the same line on the display. You cannot overlap the following line commands:

- Delete: D, Dn, DD
- Repeat: RP, RPn, RPP, RPPn
- Copy: C, Cn, CC, CR, CRn, CCR
- Move: M, Mn, MM
- Targets: A, An, B, Bn, O, On, OO
- Shift right: R, Rn, RR, RRn, RT, RTn, RRT, RRTn
- Shift left: L, Ln, LL, LLn, LT, LTn, LLT, LLTn
- Exclude: X, Xn, XX
- Show: SF, SFn, SL, SLn
- Insert: I, In, IS, ISn, IF, IFxx, IFnn, IFxxnn, IF?, IF?nn, IP, IPxx, IP?

The following examples contain overlapping line commands that are not allowed:

Example 1	Example 2	Example 3	Example 4	Example 5
M4 1.00	RPP .00	DD 1.00	DD 1.00	D4 1.00
0002.00	0002.00	CC 2.00	0002.00	0002.00
XX 3.00	X9 3.00	0003.00	A 03.00	C4 3.00
0004.00	0004.00	DD 4.00	0004.00	0004.00
XX 5.00	RPP .00	CC 5.00	DD 5.00	0005.00

Pending Operations

Operations for which only some of the necessary line commands have been entered are pending operations. For example, the Block Move operation requires two MM line commands to define the block of records to be moved and a target line command (A, B, or O). The Block Move operation is pending if you enter only the first MM line command and a target line command, or two MM line commands and no target line command.

Pending operations appear in the *Pending* field on the status line of the Edit display. Figure 112 on page 102 shows the Block Move pending operation described above.

```
  Columns . . . :   1  71            Edit            Pending . . . . . :  MM
  SEU==> _____
  FMT ** ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  0020.00 This is record 20
  MM      This record (21) is the first record in the block move
  0022.00 This is record 22
  0023.00 This is record 23
  0024.00 This is record 24
  MM      This record (25) is the last record in the block move
  0026.00 This is record 26
          ****************** End of data ****************************************
```

Figure 112. Edit Display with Pending MM Operation

You can have up to 32 pending operations at one time.

To cancel a pending operation, blank out or type over the current line command in the *Sequence-number* field. To cancel all pending operations, press F5 = Refresh.

Using Line Commands on Split Displays

You can use a split Edit/Browse display to copy records from one member into another member. If you use the Copy (C), Multiple Copy (C*nn*), or Block Copy (CC) line command to perform this operation, you must specify exactly one target and the target must be in the edit session. If you use the Multiple Copy Repeated (CR*nn*) or the Block Copy Repeated (CCR) line command, you must specify at least one target in the edit session.

The Columns (COLS) and Format (F) line commands function differently in a bottom browse session on either split display than they do on the Browse display. The initial bottom browse session of a split display does not contain a format line. When you enter an F or COLS line command, the format or columns line is shown on the third line of the bottom session. Each format line command you request replaces the previous format, so that only one format line is shown at any time.

Identifying Line Commands

When a sequence number has been altered and contains a character other than a digit (0 through 9), period, or blank, SEU identifies the contents of the field according to the following rules. (For these examples, the original sequence number is 0123.45, and ƀ is a blank.)

- Leading digits, periods, and blanks are ignored. For example, if you change the sequence number to 012C.45, SEU recognizes the C line command. If you change the sequence number to 99ƀCC45, SEU recognizes the CC line command.

- The last blank or last changed digit ends the line command. For example, if you change the sequence number to C123ƀ4, SEU recognizes the C123 line command. If you change the sequence number to C124, SEU recognizes the C124 line command. If you change the sequence number to C1ƀ3, SEU recognizes it as the C1 line command.

  Note: If the sequence number area does not contain a sequence number, enter line commands in the first column of the sequence number area followed by at least one blank to ensure the command will be processed.

When a sequence number has been altered and contains only digits (0 through 9), periods, or blanks, SEU interprets the sequence number as an Absolute Position command. The following rules apply to this type of altered sequence number. (For these examples, the original sequence number is 0123.45, and Ƀ is a blank.)

- No line command is recognized if:
  - The first character is a blank. For example, the sequence number Ƀ555Ƀ45 is not recognized as a line command, and the sequence number is reset to its original value.
  - The only change you make is to replace digits with blanks. For example, the sequence number 0Ƀ2Ƀ.Ƀ5 is not recognized as a line command, and the sequence number is reset to its original value.

- Only two digits are allowed after the decimal place. For example, sequence number 77.8888 is not a valid line command.

- The last blank or changed character ends the command. For example, if you change the sequence number to 013Ƀ.45, SEU recognizes the Absolute Positioning line command 13. If you change the sequence number to 2.2Ƀ.45, SEU recognizes the Absolute Positioning line command 2.2. If you change the sequence number to 9Ƀ3Ƀ.45, SEU recognizes the Absolute Positioning line command 9.

Matching Suffixes

A pair of block commands must have matching suffixes. If the suffixes do not match, SEU issues an error message. The following examples illustrate valid and invalid block commands:

Valid	Valid	Valid	Valid	Invalid
LL01.00	LL66	LL01.00	LL23	LL66
0002.00	0002.00	0002.00	0002.00	0002.00
0003.00	0003.00	0003.00	0003.00	0003.00
0004.00	0004.00	0004.00	0004.00	0004.00
LL05.00	LL05.00	LL34	LL23	LL34

Summary of Valid Line Commands

Figure 113 shows the line commands you can use on the Edit, Browse, and split displays.

Figure 113. Valid Line Commands for SEU Displays

Name	Commands	Edit Display	Browse Display	Browse Session: Browse/ Browse Display	Edit Session: Edit/ Browse Display	Browse Session: Edit/ Browse Display
Absolute Positioning	n, .n, n.n	Y	Y	Y	Y	Y
After, Before	A, An, B, Bn	Y	N	N	Y	N
Columns	COLS	Y	Y	Y	Y	Y
Copy	C, CC, Cn	Y	N	N	Y	Y
Copy Repeat	CR, CRn, CCR	Y	N	N	Y	Y
Delete	D, DD, Dn	Y	Y[1]	Y[1]	Y	Y[1]
Exclude	X, XX, Xn	Y	Y	Y	Y	Y
Format	F, F?, Fff	Y	Y	Y	Y	Y
Insert	I, In	Y	N	N	Y	N
Insert-with-Format	IF, IF?, IFn, IFff, IFffn	Y	N	N	Y	N
Insert-with-Prompt	IP, IP?, IPff	Y	N	N	N	N
Move	M, MM, Mn	Y	N	N	Y	N
Overlay	O, OO	Y	N	N	Y	N
Prompt	P, P?, Pff	Y	N	N	N	N
Relative Positioning	+, +n, −, −n	Y	Y	Y	Y	Y
Repeat	RP, RPn, RPP, RPPn	Y	N	N	Y	N
Shift	L, Ln, LL, LLn, R, Rn, RR, RRn	Y	N	N	Y	N
Shift-with-truncate	LT, LTn, LLT, LLTn, RT, RTn, RRT, RRTn	Y	N	N	Y	N
Show	SF, SFn, SL, SLn	Y	Y	Y	Y	Y
Skeleton	S, IS, ISn	Y	N	N	Y	N
Tabs	TABS	Y	N	N	Y	N
Window	W, Wn	Y	Y	Y	Y	Y

(1): Commands are valid only on special records (for example, format lines).

Chapter 6. Using SEU Commands

You can use SEU commands to perform find/change operations, to exit your session, and to tailor your session defaults. The commands provide a fast path for these operations which are also performed through various options displays. You can retrieve previous commands entered in the SEU command line by pressing F9 = Retrieve. You can move your cursor from the data area to the SEU command line and back to the data area by pressing F10 = Cursor. This chapter discusses how to:

- Enter SEU commands

- Use SEU commands to:

  - Find and hide records that contain a specific character string

  - Find and change character strings and tailor the find/change functions

  - Tailor your edit session

  - Reposition your display

  - Save, file, or cancel changes to a member.

You cannot enter system commands on the SEU command line, but you can press F21 = System command to display a window for entering AS/400 system commands without leaving SEU.

Entering SEU Commands

SEU commands are fast paths to various editing functions. You type SEU commands on the SEU command line on the work screen. After you have typed an SEU command or made changes to an existing command, you tell SEU to run the command by pressing a positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right.

Example: Entering SEU SET EXPERT ON Command

Type SET EXPERT ON on the SEU command line as shown in Figure 114 on page 106.

```
Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
SEU==> SET EXPERT ON_____ MEMBNAME01
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
         *************** Beginning of data ********************************
0001.00 This is record 1.
0002.00 This is record 2.
0003.00 This is record 3.
0004.00 This is record 4.
0005.00 This is record 5.
0006.00 This is record 6.
0007.00 This is record 7.
0008.00 This is record 8.
0009.00 This is record 9.
0010.00 This is record 10.
0011.00 This is record 11.
0012.00 This is record 12.
0013.00 This is record 13.
0014.00 This is record 14.
0015.00 This is record 15.
0016.00 This is record 16.


  F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve    F10=Cursor
  F16=Repeat find         F17=Repeat change           F24=More keys
```

Figure 114. Edit Display with SEU command

Press Enter. SEU removes the format line and function keys from the display, as shown in Figure 115.

```
Columns . . . :   1 71              Edit              LIBRNAME01/FILENAME01
SEU==>  _____ MEMBNAME01
         *************** Beginning of data ********************************
0001.00 This is record 1.
0002.00 This is record 2.
0003.00 This is record 3.
0004.00 This is record 4.
0005.00 This is record 5.
0006.00 This is record 6.
0007.00 This is record 7.
0008.00 This is record 8.
0009.00 This is record 9.
0010.00 This is record 10.
0011.00 This is record 11.
0012.00 This is record 12.
0013.00 This is record 13.
0014.00 This is record 14.
0015.00 This is record 15.
0016.00 This is record 16.
0017.00 This is record 17.
0018.00 This is record 18.
0019.00 This is record 19.
0020.00 This is record 20.
```

Figure 115. Edit Display in Full-Screen Mode

The result of the SET EXPERT ON command is equivalent to specifying Y (Yes) for the *Full screen mode* field on the Change Session Defaults display.

SEU Commands on Split Displays

Each split display contains one command line for each session. You can enter SEU commands in the sessions that currently support equivalent function. Commands for split displays can be one of two types: session dependent and session independent.

Session-dependent commands perform their function only in one session. If a session-dependent command is entered on the top session, it affects only the top session. If it is entered on the bottom session, it affects only the bottom session. For example, if the FIND command is entered in the top SEU command line, SEU searches only the top session for the string.

Session-independent commands perform their function in both sessions, regardless of which session contains the cursor. For example, if the SET ROLL command is entered in either session of a split display, the amount to roll for both sessions is affected.

When you use either a session-dependent command or a session-independent command, the following additional processing occurs in both sessions:

- Lines in the edit session that have been changed are updated and checked for syntax errors.

- All line commands are run before an SEU command is processed. For example, if you enter a FIND command, SEU processes all unprocessed line commands before finding the string in the appropriate session.

Figure 116 shows the commands for each type of session on split displays. A Y indicates that the command is valid in that type of session. Figure 116 also uses a Y to indicate commands that are session-dependent. For example, the FIND command is session-dependent, and finds only strings in the session containing the cursor.

Unless otherwise noted, commands in an edit session perform the same function as the options displays and the corresponding function keys for the Edit display, and commands in a browse session perform the same function as the options displays and the corresponding function keys for the Browse display.

Figure 116 (Page 1 of 2). SEU Commands for Split Displays

Command	Function	Edit Session	Browse Session	Session-Dependent
FIND or F	Find a string of characters in a member.	Y	Y	Y
HIDE or H	Hide records that contain a specified string from the display.	Y	Y	Y
CHANGE or C	Find a string of characters in a member and change it to another string.	Y	N	Y
SET or S MATCH	Match the string of a member during the find operation.	Y	Y	Y
SET or S SHIFT	Shift data over when replacing a string during the change operation.	Y	N	Y
SET or S CAPS	Set the type of data input to upper- or mixed case.	Y	Y	N

Figure 116 (Page 2 of 2). SEU Commands for Split Displays

Command	Function	Edit Session	Browse Session	Session-Dependent
SET or S TABS	Use predefined tab positions.	Y	N	Y
SET or S ROLL	Set the amount the display moves up, down, left, and right.	Y	Y	N
SET or S EXPERT	Set the display to full screen mode.	Y	Y	N
TOP or T	Reposition the work screen to the first page of data.	Y	Y	Y
BOTTOM or BOT or B	Reposition the work screen to the last page of data.	Y	Y	Y
CANCEL or CAN	Cancel the session and exit or remove the bottom split browse session. CANCEL in the top session exits both sessions.	Y	Y	Y
SAVE	Save changes made to the member and continue editing.	Y	N	Y
FILE	Save changes made to the member and exit.	Y	N	Y

Entering System Commands

AS/400 system commands can be entered while you are on the SEU work screen. You press F21 = System command to display a window where you can enter an AS/400 system command, as shown in Figure 117.

```
 Columns . . . :  6  76           Edit            LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
FMT DP AAN01N02N03T.Name++++++RLen++TDpBlinPosFunctions++++++++++++++++.
0038.00 A                              1  2'MAILING LIST TRANSACTION - +
0039.00 A                                  CONFIRMATION'
0040.00 A                                  DSPATR(HI)
0041.00 A                              3  2'Batch Number'
0042.00 A          BATNUM    R              DSPATR(HI)
0043.00 A                              5  2'Batch Header is coded as +
0044.00 A                                  being keyed.'
0045.00 A                              7  2'If this is a +
0046.00 A                                  Recovery situation use F10.'
0047.00 A                              9  2'If no recovery, press ENTER +
0048.00 A                                  to return to first prompt.'
0049.00 A          R SUBFIL                 TEXT('Sub File for Transactions'
0050.00 A                                  SFL
0051.00 A          TRNTYP    R      I 5 2
 ...............................................................
 :                       System Command                        :
 :                                                             :
 : ===> _____  :
 : F4=Prompt   F9=Retrieve   F12=Cancel                        :
 : (C) COPYRIGHT IBM CORP. 1981, 1992.                         :
 :...............................................................:
```

Figure 117. Edit Display with System Command Window

Depending on the cursor location, the System Command window may appear in the top portion or in the bottom portion of the display. You cannot enter data on the SEU work screen while the System Command window is showing.

The field on the System Command window is:

= = = >. Enter a system command. For help in selecting a system command, press F4 = Prompt without typing anything in the window. For help in entering a system command, type the command in the window and press F4 = Prompt. To see more information on a system command, type the command and press the Help key.

System/36 and System/38 commands cannot be entered here but you can reach the Command Entry display through the Attention key.

Note: System commands such as SIGNOFF (in the AS/400 system) or ENDS36 (in the System/36 environment) end the SEU session abnormally. When you reaccess the aborted member, you will go to the Recover SEU Member display. See Appendix D, "Recovering from Errors" for more information about using this display.

Function Keys for the System Command Window

You can use the function keys shown in Figure 118 with the System Command window.

Figure 118. Function Keys for the System Command Window

Function Key	Description
F1	Help. Press this key to see information about the system commands.
F4	Prompt. Press this key to prompt for a command or to see the command menu.
F9	Retrieve. Press this key to retrieve previously entered commands.
F12	Cancel. Press this key to return to the work screen. SEU removes the System Command window.

Example: Entering System Commands in Windows

To see the Work with All Spooled Files display, type the WRKSPLF command on the System Command window, as shown in Figure 119 on page 110.

```
Columns . . . :   6  76              Edit                 LIBRNAME01/FILENAME01
SEU==> _____   MEMBNAME01
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBlinPosFunctions+++++++++++++++++.
0038.00 A                                  1 2'MAILING LIST TRANSACTION - +
0039.00 A                                      CONFIRMATION'
0040.00 A                                      DSPATR(HI)
0041.00 A                                  3 2'Batch Number'
0042.00 A          BATNUM    R                 DSPATR(HI)
0043.00 A                                  5 2'Batch Header is coded as +
0044.00 A                                      being keyed.'
0045.00 A                                  7 2'If this is a +
0046.00 A                                      Recovery situation use F10.'
0047.00 A                                  9 2'If no recovery, press ENTER +
0048.00 A                                      to return to first prompt.'
0049.00 A          R SUBFIL                     TEXT('Sub File for Transactions'
0050.00 A                                      SFL
0051.00 A          TRNTYP    R      I 5 2
 ............................................................................
 :                           System Command                                 :
 :                                                                           :
 : ===> WRKSPLF_____                   :
 : F4=Prompt   F9=Retrieve   F12=Cancel                                      :
 : (C) COPYRIGHT IBM CORP. 1981, 1992.                                       :
 :...........................................................................:
```

Figure 119. Edit Display with System Command in Window

Press Enter. The Work with All Spooled Files display appears as shown in Figure 120.

```
                         Work with All Spooled Files

   Type options, press Enter.
     2=Change   3=Hold   4=Delete   5=Display   6=Release   8=Attributes


                            Device or                  Total   Cur
   Opt  File      User      Queue     User Data  Sts    Pages  Page Copy
     _  QSYSPRT   USER01    PRT01                RDY     27          1
     _  QSYSPRT   USER01    PRT01                RDY    206          1
     _  QSYSPRT   USER01    PRT01                RDY      8          1
     _  QSYSPRT   USER01    PRT01                RDY      1          1
     _  QSYSPRT   USER01    PRT01                RDY      5          1
     _  QSYSPRT   USER01    PRT01                RDY     57          1
     _  QSYSPRT   USER01    PRT01                RDY      5          1
     _  QSYSPRT   USER01    PRT01                RDY      1          1




                                                              Bottom
   Parameters for options 2, 3 or command
   ===> _____
   F3=Exit   F10=View 3   F11=View 2   F12=Cancel   F22=Printers   F24=More keys
```

Figure 120. Work with All Spooled Files Display

Press F3 = Exit to return to the Edit display. To remove the System Command window, press Enter or F12 = Cancel.

SEU Commands

You can find, hide, and change character strings, tailor the find/change function and the edit session, reposition the display, and file, save, or cancel your changes to a member by using SEU commands.

Hiding Records on the Display

To hide records that have a specific string, use the HIDE command. Figure 121 shows the syntax of the HIDE command.

```
>>──HIDE──(──string──)────────────────────────────────────────────────────────><
                      └─COLUMNS──(──┬─start column─┬──)─┘  └─AREA──(──┬─ALL────┬──)─┘
                                    └─end column───┘                  ├─TOP────┤
                                                                      └─BOTTOM─┘
```
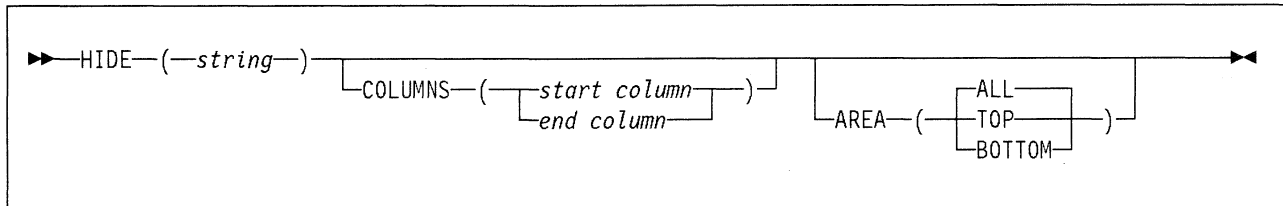
Figure 121. Syntax of the HIDE Command

The HIDE command has one required positional parameter: string. The command also has three optional parameters: startcolumn, endcolumn, and area. The short form of HIDE is H. You can enter the command on any SEU command line.

The HIDE command is session dependent on split displays. For example, if you enter the HIDE command on the SEU command line of the top session, only the member in the top session is affected. In addition, the HIDE command in the bottom session of a split display hides up to 100 blocks of records only. A HIDE request beyond this limit is ignored.

When you enter a valid HIDE command, SEU searches for the lines that contain the specified string. You can specify that the search be from the position of the cursor to the end of the member, from the position of the cursor to the beginning of the member, or of all records in the member. You can also specify that the search is for the area between particular columns. The records that match the conditions that you specify are hidden but remain in the member.

In an Edit session, a special record is displayed with a message that states the number of records that are hidden from the display. In a Browse session, the special record is not displayed; however, a message is displayed once to show the number of hidden records.

String parameter
Specify the character string that you want to find. If the string includes leading, embedded, or trailing blanks, apostrophes, or quotation marks, enclose the string in apostrophes or quotation marks.

Columns parameter
Specify the columns within which you want to conduct the search. If the columns parameter is not specified, the default is to search for occurrences of the string in all columns. You can specify the column from which you begin the search and the column in which you end the search. If you specify both column numbers, enter them next to each other, separated by a blank. The hide function then searches for the strings that are within this range of columns inclusive. If only one column number is specified, SEU begins the search there.

Area parameter

Specify the area of the member to search.

TOP or **T** Hides all records that contain the specified string from the line containing the cursor to the top of the member.

BOTTOM or **B** Hides all records that contain the specified string from the line containing the cursor to the end of the member.

ALL or **A** Hides all records in the member that contain the specified string. The default is ALL.

Here are some examples:

- HIDE '*' 7 7 A

Hides all records in the member that contain '*' in column 7. You can use this HIDE command to hide all comments in a COBOL source member.

- HIDE '*%%' T

Hides all records from the cursor position to the top of the member that contain '*%%'. Because the columns are not specified, the string can occur in any position in the line. You can use this HIDE command to hide comments in a PRTF member that was created in RLU.

Finding and Changing Character Strings

To find and change character strings in a member, use the following SEU commands:

- FIND
- CHANGE.

FIND

Figure 122 shows the syntax of the SEU FIND command.
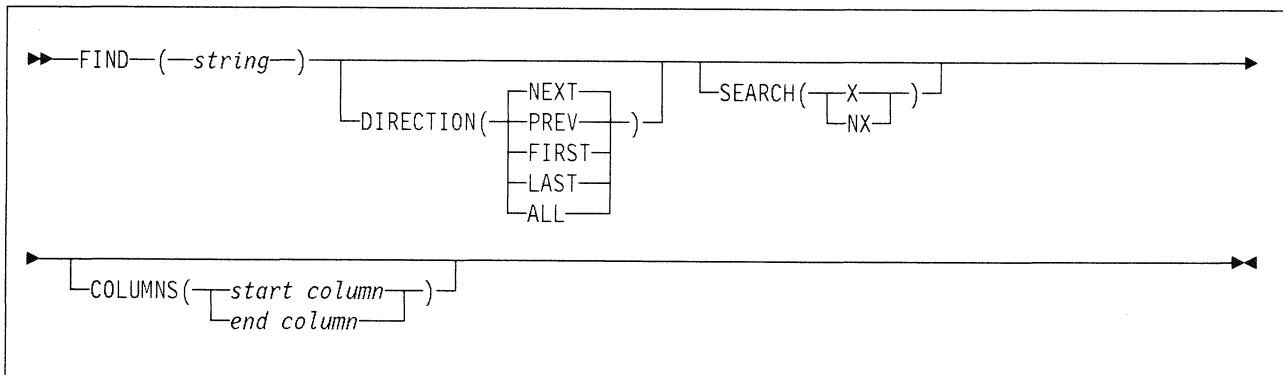
Figure 122. Syntax of the FIND Command

The FIND command is used to search for occurrences of a character string in a member. It has one required positional parameter: string. It has three optional parameters: direction, search, and columns, which can be entered in any order. The short form for FIND is F. It can be entered on any SEU command line.

The FIND command is session-dependant on split displays. For example, if the FIND command is entered on the SEU command line of the top session, only the member in the top session is searched.

Values entered through the FIND command appear in the corresponding fields on the Find/Change Options display. Any parameter not specified is reset back to the default. For example, the command FIND ABC P 15 finds all previous occurrences of the string ABC that start in column 15 from the cursor position. If FIND DEF is then entered, the values for the search direction and the column in which to search are reset to the default values of NEXT and all columns are searched.

String parameter

Specify the character string you want to find. If the string includes leading, embedded, or trailing blanks, special values, apostrophes, or quotation marks, enclose the string in apostrophes or quotation marks. Enter *ERR to search for syntax errors in your source member. Enter an asterisk (*) to use the string that you entered in your last find/change function.

Direction parameter

Specify the direction in which you want to conduct the search. If the direction parameter is not specified, the default is NEXT.

NEXT or N Search for the next occurrence of the string in the member. This is the default value if you do not specify the direction parameter. The search wraps around to the beginning of the data when the end of the data is reached. SEU runs a search from the current cursor position.

PREV or P Search for the previous occurrence of the string in the member. The search wraps around to the end of the data when the beginning of the data is reached. SEU runs a search from the current cursor position.

FIRST or F Search for the first occurrence of the string in the member. This parameter becomes NEXT on a repeat of this function.

LAST or L Search for the last occurrence of the string in the member. This parameter becomes PREV on a repeat of this function.

ALL or A Search for all occurrences of the string in the member. The number of times the string appears is displayed. This parameter becomes NEXT on a repeat of this function.

Search parameter

Specify which records in the member you want to search. If the search parameter is not specified, the default is to search for occurrences of the string in all records.

X Search for occurrences of the string in the excluded records.

NX Search for occurrences of the string in the nonexcluded records.

Columns parameter

Specify the columns within which you want to conduct the search. If the columns parameter is not specified, the default is to search for occurrences of the string in all columns. You can specify the column from which you begin the search and the column in which you end the search. If both column numbers are specified, they must be entered next to the other separated by a blank. The find function then searches for the strings that are within this range of columns inclusive. If only one column number is specified, SEU assumes it to be the column from which you want to begin the search.

Here are some examples:

- F * P

  Use the string that was entered from the previous search to find the previous occurrence of the string in all records in all columns in the member.

  After keying in a FIND command with the PREV option, you must move the cursor back to the data area in the position where you want the search to begin. Press F10=Cursor after typing in the command to move the cursor from the SEU command line back to the previous position in the data area, and then press Enter.

- FIND *ERR A

  Find syntax errors in all records in all columns in the member.

- F '_abc' X P 15

  Find the previous occurrences of the string _abc that begin in column 15 in excluded records of the member.

- F "'abc'" NX A

  Find all occurrences of the string 'abc' in all nonexcluded records in all columns in the member.

You can use the F16=Repeat find key after typing a FIND command on the command line to begin a search as well as to find subsequent occurrences of a string.

The FIND command is optional when you use F16=Repeat find to begin a search. When you type a character string on the SEU command line and press F16, SEU searches the member for that string. The CHANGE, C, FIND, and F commands are processed as commands when you use them with F16. If you want to use these characters in a search string with F16, you must delimit them with single quotation marks. For example, to find the string CHANGE, type 'CHANGE' and press F16.

CHANGE

Figure 123 shows the syntax of the SEU CHANGE command.
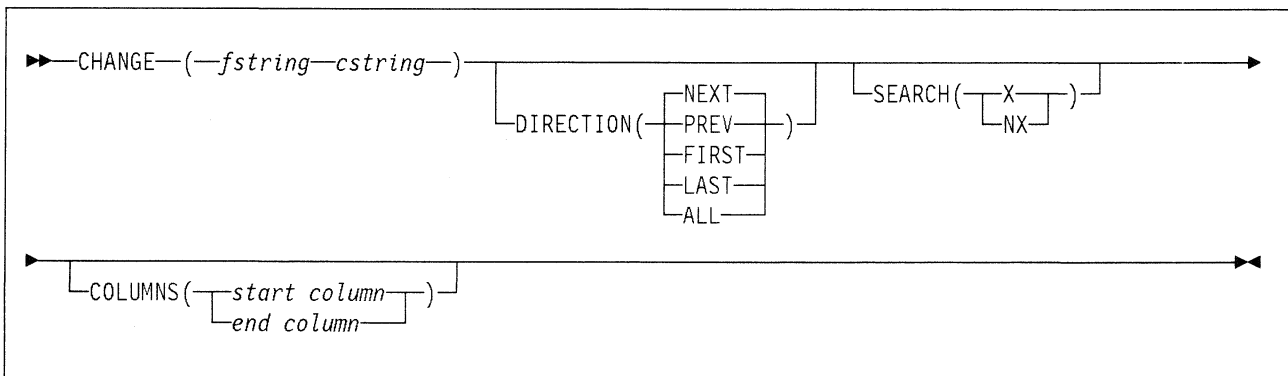
Figure 123. Syntax of CHANGE Command

The CHANGE command is used to find occurrences of a character string in a member and to change it to another character string. It has two required positional parameters: fstring and cstring. It has three optional parameters: direction, search, and columns, which can be entered in any order. The short form

for CHANGE is C. It can be entered on the Edit display command line and the command line in the top session of a split Edit/Browse display.

The CHANGE command is session-dependent on split displays. It affects only the top session of a split display.

Values entered through the CHANGE command appear in the corresponding fields on the Find/Change Options display. Any parameter not specified is reset back to the default. For example, the command CHANGE ABC DEF P 5 finds all previous occurrences of the string ABC that start in column 5 from the cursor position, and change them to the string DEF. If CHANGE XX XY is then entered, the values for the search direction and the column in which to search are reset to the default value of NEXT and all columns are searched.

Fstring cstring parameters
Specify the character string you want to find and the character string to which you want the string to be changed. Both character strings must be entered next to one another separated by a blank. If the string includes leading, embedded, or trailing blanks, special values, apostrophes, or quotation marks, enclose the string in apostrophes or quotation marks. Enter *ERR to search for syntax errors in your source member. Enter an asterisk (*) to use the string that you entered in your last find/change function.

Direction parameter
Specify the direction in which you want to conduct the search. If the direction parameter is not specified, the default is NEXT.

NEXT or **N** Search for the next occurrence of the string in the member. This is the default value if you do not specify the direction parameter. The search wraps around to the beginning of the data when the end of the data is reached. SEU runs a search from the current cursor position.

PREV or **P** Search for the previous occurrence of the string in the member. The search wraps around to the end of the data when the beginning of the data is reached. SEU runs a search from the current cursor position.

FIRST or **F** Search for the first occurrence of the string in the member. This parameter becomes NEXT on a repeat of this function.

LAST or **L** Search for the last occurrence of the string in the member. This parameter becomes PREV on a repeat of this function.

ALL or **A** Search for all occurrences of the string in the member. The number of times the string appears is displayed. This parameter becomes NEXT on a repeat of this function.

Search parameter
Specify which records in the member you want to search. If the search parameter is not specified, the default is to search for occurrences of the string in all records.

X Search for occurrences of the string in the excluded records.

NX Search for occurrences of the string in the nonexcluded records.

Columns parameter
Specify the columns within which you want to conduct the search. If the columns parameter is not specified, the default is to search for occurrences of the string in all columns. You can specify the column from which you begin the search and the column in which you end the search. If both column numbers are specified, they must be entered next to the other

separated by a blank. The change function then searches for strings that are within this range of columns inclusive, and changes them to the replacement string. If only one column number is specified, SEU assumes it to be the column from which you want to begin the search.

Here are some examples:

Use the strings that were entered from the previous search to find and change the previous occurrence of the find string in all records in all columns in the member.

After keying in a CHANGE command with the PREV option, you must move the cursor back to the data area in the position where you want the search to begin. Press F10=Cursor after typing in the command to move the cursor from the SEU command line back to the previous position in the data area, and then press Enter.

- CHANGE '_abc' 'a_bc'

  Find the next occurrence of the string _abc in all records in all columns in the member and change it to a_bc.

- C '*' '@' NX 1 2 A

  Find all occurrences of the character asterisk (*) in all nonexcluded records starting in column 1 and ending in column 2, and change it to the character @.

- C "ab'_c" ''abc'' 20 F X

  Find the first occurrence of the string ab'_c that begins in column 20 in excluded records in the member, and change it to 'abc'.

You can use the F16=Repeat find key after typing a CHANGE command on the SEU command line to search for the first occurrence of a string. You can then use the F17=Repeat change key to process the change function of the command. Press the F17 key again to repeat both the FIND and CHANGE commands.

Tailoring Your Find and Change Operations

To tailor your find and change operations, use the SET command with the following options:

- MATCH
- SHIFT.

SET

Figure 124 shows the syntax of the SEU SET command.

```
>>--SET--(--+------------------+--)----------------------------------><
            |        +-OFF-+    |
            +-MATCH--+-ON--+----+
            +-SHIFT--+-ON--+----+
                     +-OFF-+
```
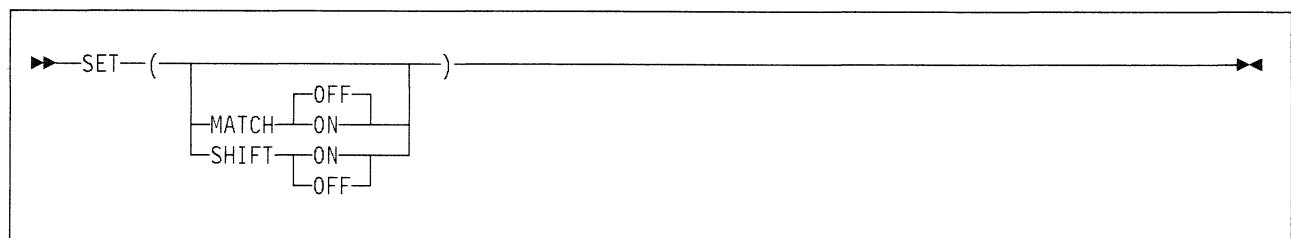
Figure 124. Syntax of the SET Command — Find and Change Operations

The SET command is used to change some of the find and change operations. The short form for SET is S. Options entered through the SET command appear in corresponding fields on the Find/Change Options display and the Find Options display. The SET option is either enabled (ON) or disabled (OFF). If a value is not specified, the default is ON. For example, you can type SET EXPERT without specifying a value and SEU sets the value to ON.

Option parameter

Specify some of the find and change options on the Find/Change Options display and the Find Options display.

MATCH Tailor the find and change operation to allow whether uppercase and lowercase letters must be matched in the search string. The initial value is OFF.

SHIFT Tailor the find and change operation to shift data when a string is replaced. It is available only in an edit session. The initial value depends on the source member type.

Here are some examples:

* SET SHIFT OFF

  Prevent the data from shifting if the replacement string is either longer or shorter than the find string.

* SET MATCH ON

  Find only the character strings that match the case in the find string.

Tailoring Your Session Defaults

To tailor your session defaults, use the SET command with the following options:

* CAPS
* TABS
* EXPERT
* ROLL.

SET

Figure 125 shows the syntax of the SEU SET command.

```
►►─SET─(──────────────────────)─────────────────────────────────►◄
         ├─CAPS─┬─ON──┬──────┤
         │      └─OFF─┘      │
         ├─TABS─┬─OFF─┬──────┤
         │      └─ON──┘      │
         ├─EXPERT─┬─OFF─┬────┤
         │        └─ON──┘    │
         └─ROLL─┬─HALF─┬─────┘
                ├─FULL─┤
                ├─CSR──┤
                ├─DATA─┤
                └─nnn──┘
```
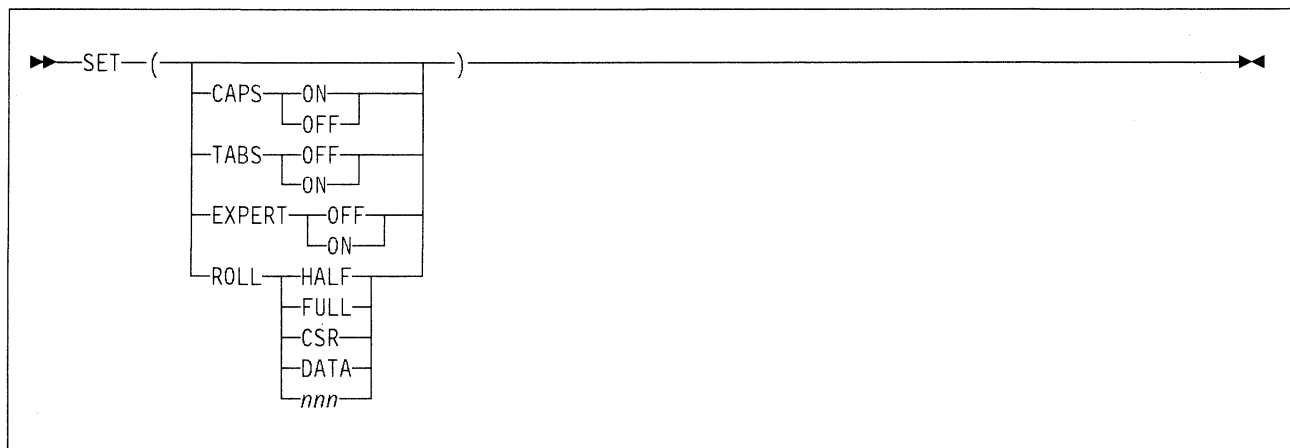
Figure 125. Syntax of the SET Command — Session Defaults

The SET command is used to change various session defaults. The short form for SET is S. Options entered through the SET command appear in the corresponding fields on the Change Session Defaults display. The SET option is either enabled (ON) or disabled (OFF). If a value is not specified, the default is ON.

Option parameter

Specify some of the session options on the Change Session Defaults display.

CAPS Specify whether the source text, find string, and the change string that you enter are in both uppercase and lowercase, or in uppercase only. The initial value depends on the source member type and the user profile. In a Browse display, the initial value is always OFF.

TABS Specify whether the tabs you set with the TABS line command are active. The initial value depends on the user profile.

EXPERT Set the edit and browse sessions to either full screen mode or normal mode of operation. The initial value depends on the user profile.

ROLL Set the number of lines or columns that will move on your work screen when you use the Page Up, Page Down, F19 = Left, and F20 = Right keys. The initial value depends on the user profile.

HALF Move a half page up or down when you press the Page Up or Page Down key, or window a half page when you press the F19 = Left or F20 = Right key. The short form for HALF is H.

FULL Move a full page up or down when you press the Page Up or Page Down key, or window a full page when you press the F19 = Left or F20 = Right key. The short form for FULL is F.

CSR Move by the cursor position when you press the Page Up or Page Down key, or window by the cursor position when you press the F19 = Left or F20 = Right key. The short form for CSR is C.

DATA Move by a page minus a line up or down when you press the Page Up or Page Down key, or window a page minus one column left or right when you press the F19 = Left or F20 = Right key.

1-999 Move a specific number of lines when you press the Page Up or Page Down key, or window a number of columns left or right when you press the F19 = Left or F20 = Right key.

Repositioning Your Display

To reposition your work screen quickly, use the following SEU commands:

- TOP
- BOTTOM.

TOP

The TOP command is used to reposition the work screen to the first page of data. The first page of data starts on the beginning-of-data line. The short form for TOP is T. This command has no parameters. It is allowed on all SEU command lines on the work screen.
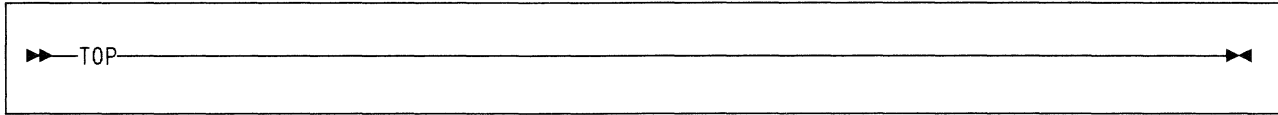
Figure 126 shows the syntax of the TOP command.

```
►►──TOP──────────────────────────────────────────────────────────────────────►◄
```
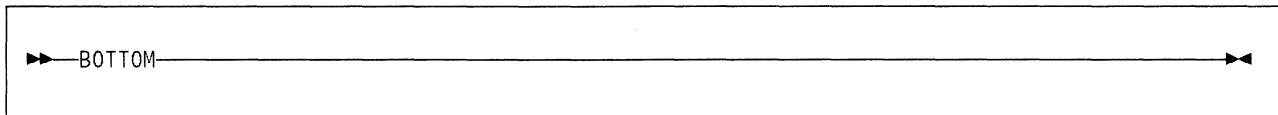
Figure 126. Syntax of the TOP Command

BOTTOM

The BOTTOM command is used to reposition the work screen to the last page of data. The last page of data ends on the end-of-data line. The short form for BOTTOM is BOT or B. This command has no parameters. It is allowed on all SEU command lines on the work screen.

Figure 127 shows the syntax of the BOTTOM command.

```
►►──BOTTOM───────────────────────────────────────────────────────────────────►◄
```

Figure 127. Syntax of the BOTTOM Command

Saving, Filing, or Canceling Changes to a Member

To save, file, or cancel changes to a member, use the following SEU commands:

- SAVE
- FILE
- CANCEL.

SAVE

Figure 128 shows the syntax of the SAVE command.

```
►►──SAVE──────────────────────────────────────────────────────────────────────►
                                                                               
►──────────────────────────────────────────────────────────────────────────────►◄
     │          ┌─*CURLIB/─┐        ┌─Current──┐            ┌─Current────┐     │
     └─Library──(──┴─library/─┴──)──File──(──┴─new file─┴──)──Member──(──┴─new member─┴──)─┘
```
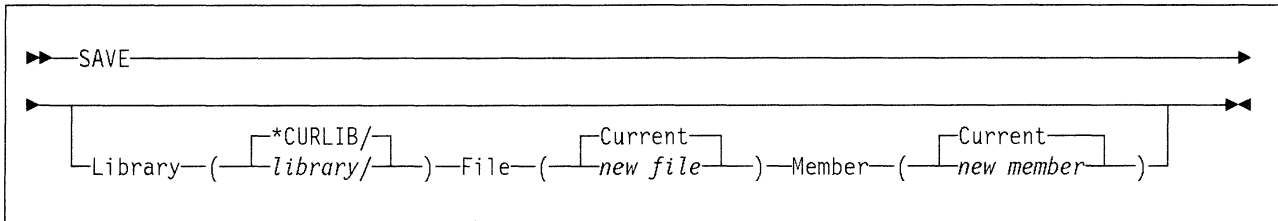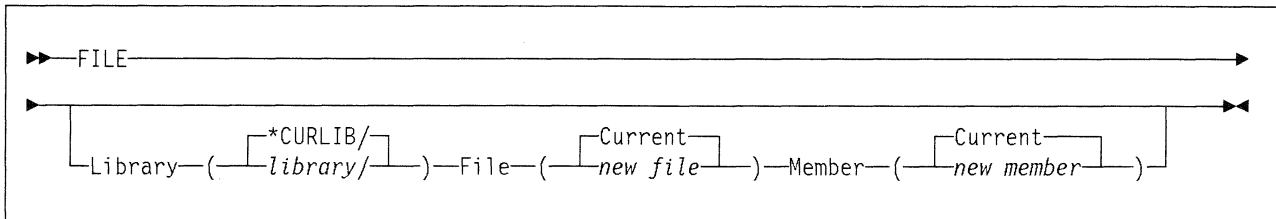
Figure 128. Syntax of the SAVE Command

The SAVE command is used to save your changes to a member and allows you to continue editing. It is allowed in the edit session only. It can be entered on the Edit display command line and in the top command line on a split Edit/Browse display. Values entered through the SAVE command appear in the corresponding fields on the Exit display. Any parameter not specified is reset back to the default.

Library/ parameter

Specify the library in which you want to save the file that contains the member. The default is the current library of your member. To save the member in a different library, you must specify a library and a file name. This parameter is optional.

File parameter

Specify the file that contains the member. The default is the current library and file. If the library is specified, the file name is required and must immediately follow the slash (/). If the library name is not specified, the file name is optional.

Member parameter

Specify the member in which you want to save the changes. If the file name is specified, the member name is required and must follow the file name separated by a blank. If the file name is not specified, the member name is optional. The default is the current library, file, and member.

Note: The System/38 terminology (FILE.LIBRARY) is not supported.

The library, file, and member parameters cannot be specified if the user is editing DDS comments from SDA.

Here are some examples:

* SAVE RPGSRC RPGMEM

  Saves the member RPGMEM in the file RPGSRC in the current library.

* SAVE CBLLIB/CBLSRC CBLMEM

  Saves the member CBLMEM in the file CBLSRC in the library CBLLIB.

* SAVE

  Saves the member in the file in the current library.

FILE

Figure 129 shows the syntax of the FILE command.

```
►►─FILE──────────────────────────────────────────────────────►

►─┬──────────────────────────────────────────────────────────┬─►◄
  │        ┌─*CURLIB/─┐        ┌─Current─┐          ┌─Current────┐   │
  └─Library─(─┴─library/─┴─)─File─(─┴─new file─┴─)─Member─(─┴─new member─┴─)─┘
```

Figure 129. Syntax of the FILE Command

The FILE command is used to save your changes to a member and allows you to exit from the edit session. It is allowed in the edit session only. It can be entered on the Edit display command line and in the top command line of a split Edit/Browse display.

When the FILE command is used on a split display, you exit from both sessions. Values entered through the FILE command appear in the corresponding fields on the Exit display. Any parameter not specified is reset back to the default.

Library/ parameter

Specify the library in which you want to save the file that contains the member. The default is the current library of your member. To file the member in a different library, you must specify a library and a file name. This parameter is optional.

File parameter
>Specify the file that contains the member. The default is the current library and file. If the library is specified, the file name is required and must immediately follow the slash (/). If the library name is not specified, the file name is optional.

Member parameter
>Specify the member in which you want to save the changes. If the file name is specified, the member name is required and must follow the file name separated by a blank. If the file name is not specified, the member name is optional. The default is the current library, file, and member.

>**Note:** The System/38 terminology (FILE.LIBRARY) is not supported.

>The Library, file, and member parameters cannot be specified if the user is editing DDS comments from SDA.

Here are some examples:

- FILE RPGSRC RPGMEM

 Files the member RPGMEM in the file RPGSRC in the current library.

- FILE CBLLIB/CBLSRC CBLMEM

 Files the member CBLMEM in the file CBLSRC in the library CBLLIB.

- FILE

 Files the member in the file in the current library.

CANCEL
The CANCEL command is used to cancel your session and allows you to exit from the session. The short form for CANCEL is CAN. This command has no parameters. It is allowed on all SEU command lines on the work screen. On a split Browse/Browse display, if you enter this command in the bottom session, only that session is canceled; if you enter it in the top session, both sessions are canceled.

Figure 130 shows the syntax of the CANCEL command.

```
►►──CANCEL──────────────────────────────────────────────────►◄
```
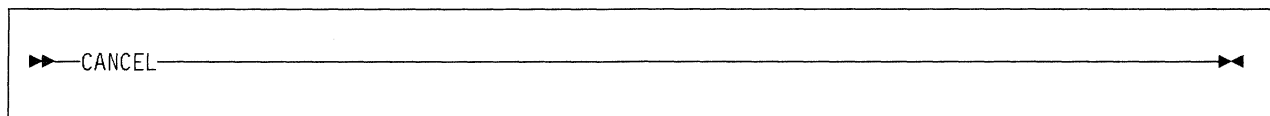
Figure 130. Syntax of the CANCEL Command

Summary of Valid SEU Commands
>Figure 131 shows the SEU commands you can use on the Edit, Browse, and split displays.

Figure 131. Valid SEU Commands for SEU Displays

Name	Commands	Parameters or Values	Edit Display	Browse Display	Browse Session: Browse/ Browse Display	Edit Session: Edit/ Browse Display	Browse Session: Edit/ Browse Display
FIND	FIND, F	fstring,[1] direction, search, columns	Y	Y	Y	Y	Y
HIDE	HIDE, H	fstring,[1] columns, area	Y	Y	Y	Y	Y
CHANGE	CHANGE, C	fstring,[1] cstring,[1] direction, search, columns	Y	N	N	Y	N
TOP	TOP, T	None	Y	Y	Y	Y	Y
BOTTOM	BOTTOM, BOT, B	None	Y	Y	Y	Y	Y
SAVE	SAVE	lib/file member	Y	N	N	Y	N
FILE	FILE	lib/file member	Y	N	N	Y	N
CANCEL	CANCEL, CAN	None	Y	Y	Y	Y	Y
SET TABS	SET TABS, S TABS	on, off[2]	Y	N	N	Y	N
SET EXPERT	SET EXPERT, S EXPERT	on, off[2]	Y	Y	Y	Y	Y
SET SHIFT	SET SHIFT, S SHIFT	on, off[2]	Y	N	N	Y	N
SET MATCH	SET MATCH, S MATCH	on, off[2]	Y	Y	Y	Y	Y
SET CAPS	SET CAPS, S CAPS	on, off[2]	Y	Y	Y	Y	Y
SET ROLL	SET ROLL, S ROLL	H, Half, F, Full, C, CSR, D, DATA, 1-999[2]	Y	Y	Y	Y	Y

1: These parameters are required.
2: These are values not parameters.

Values entered through the FIND and CHANGE commands appear on the Find/Change Options and Find Options displays.

Values entered through the SAVE and FILE commands appear on the Exit display.

Values entered through the SET SHIFT and SET MATCH commands appear on the Find/Change Options and Find Options displays.

Values entered through the SET EXPERT, SET ROLL, SET CAPS and SET TABS commands appear on the Change Session Defaults display.

Chapter 7. Browsing Members

This chapter describes how to:

- Look at the records in a member using the Browse display

- Perform find operations using the Find Options display

- Browse a second member, a spooled file, or an output queue using the Browse Options display

- Select a member to browse using the Select Member Using SEU display

- Select another file from which to browse a member using the Select File Using SEU display

- Select a spooled file to browse using the Select Spooled File Using SEU display

- Select another user from whom to browse a spooled file using the Select User Using SEU display

- Change the browse session parameters using the Change Session Defaults display or the SEU SET command.

Looking at Records in a Member

You can look at the records in a member by using the Browse display. To access this display, specify 5 (Browse) for the Option parameter on the STRSEU command. You can also request a browse session for a member by specifying option 5 (Browse) on the Work with Members Using SEU display.

Figure 132 shows how to access the Browse display.
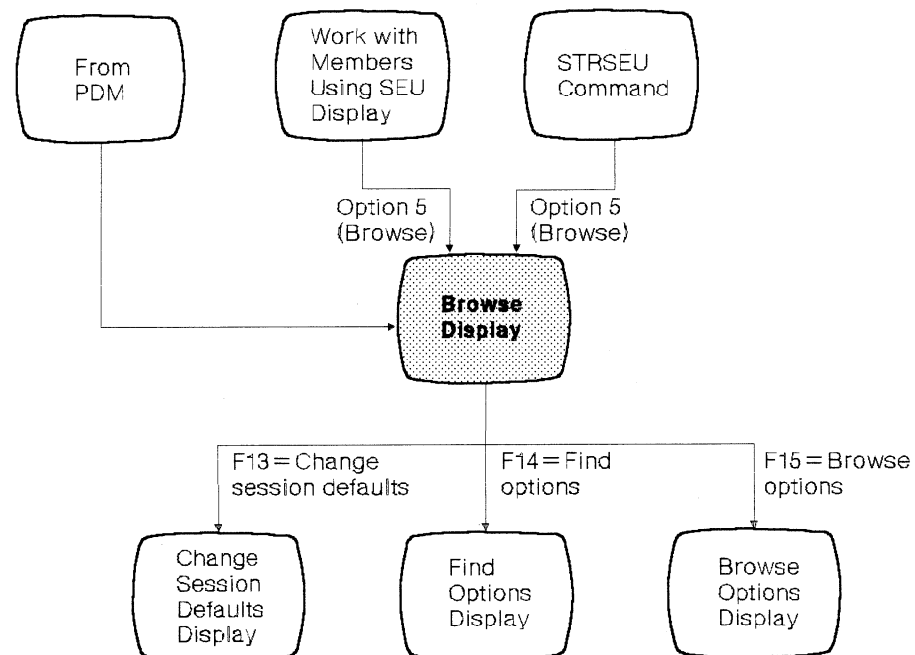
QSU3013

Figure 132. Accessing the Browse Display

Using the Browse Display

The Browse display is identical to the Edit display with the following exceptions:

- The title of the display is Browse

- The Browse display uses a subset of the function keys used by the Edit display

- The Browse display uses a subset of the line commands used by the Edit display

- The Browse display uses a subset of the SEU commands used by the Edit display

- You cannot edit the member on the Browse display.

The Browse display allows you to look at a member without the risk of accidentally changing the member. You can use the scanning and positioning operations available on the Edit display (such as Page Down and Page Up) but you cannot perform any operations that alter the member (such as adding, deleting, changing, or moving records).

Some of the characteristics for browse sessions are also used as attributes for edit sessions. Attributes shared with edit sessions include:

- The amount by which the display moves when you press Page Up, Page Down, F19 = Left, or F20 = Right: by a full page, by a half page, by the cursor position, by data (a full page minus a column or a line), or by a specific number of lines

- Mixed-case or uppercase only input (for find operations)

- The screen size SEU uses (for 27 x 132 displays only)

- Full screen mode turned on or off

- Case match (for find operations).

These attributes can be changed by using the Change Session Defaults display or by using the SEU SET command. For more information, see "Using the SEU SET Command" on page 127. Screen size cannot be changed by using the SEU SET command.

Figure 133 on page 125 shows an example of the Browse display.

```
 Columns . . . :   1  71            Browse               LIBRNAME01/FILENAME01
 SEU==>  _____         MEMBNAME01
 FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
          *************** Beginning of data *************************************
 0001.00  This is the 1st record in the member
 0002.00  This is the 2nd record in the member
 0003.00  This is the 3rd record in the member
 0004.00  This is the 4th record in the member
 0005.00  This is the 5th record in the member
 0006.00  This is the 6th record in the member
 0007.00  This is the 7th record in the member
 0008.00  This is the 8th record in the member
 0009.00  This is the 9th record in the member
 0010.00  This is the 10th record in the member
 0011.00  This is the 11th record in the member
 0012.00  This is the 12th record in the member
 0013.00  This is the 13th record in the member
 0014.00  This is the 14th record in the member
 0015.00  This is the last record in the member
          ****************** End of data *****************************************


 F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
 F16=Repeat find        F24=More keys
```

Figure 133. Browse Display

Figure 134 shows the second set of function keys for the Browse display when you press F24=More keys.

```
 F13=Change session defaults   F14=Find options
 F15=Browse options            F24=More keys
```

Figure 134. Second Set of Function Keys for the Browse Display

Press F24=More keys a second time to see the third set of function keys for the Browse display, as shown in Figure 135.

```
 F19=Left   F20=Right   F21=System command
 F24=More keys
```

Figure 135. Third Set of Function Keys for the Browse Display

The fields on the Browse display are the same as the fields on the Edit display. For information on these fields, see "Using the Edit Display" on page 25.

Changing the Browse Session Environment

You can specify parameters to change the browse session environment (such as setting the amount to roll the display or forcing uppercase input) by using the Change Session Defaults display. Press F13=Change session defaults on the Browse display to access the Change Session Defaults display shown in Figure 136 on page 126. You can also change your browse session without using this display by using the SEU SET command. For more information, see "Using the SEU SET Command" on page 127.
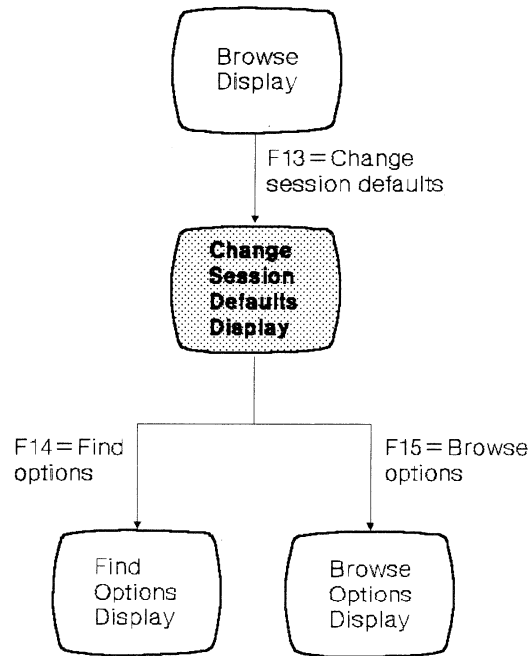
Figure 136. Accessing the Change Session Defaults Display

Using the Change Session Defaults Display

You can use the Change Session Defaults display to specify the following for the browse session:

- The amount by which the display moves when you press Page Up, Page Down, F19 = Left, or F20 = Right: by a full page, by a half page, by the cursor position, by data (a full page minus a column or a line), or by a specific number of lines

- The screen size (for 27 x 132 displays only)

- Full screen mode turned on or off.

Note: The Change Session Defaults display that appears when you press F13 = Change session defaults in a browse session contains a subset of the attributes that appear if the display is called from an edit session. "Changing the Edit Session Environment" on page 35 describes additional attributes applicable during edit sessions only. Changes made to any of the attributes on the Change Session Defaults display are retained for subsequent browse or edit sessions, regardless of which type of session the display is called from.

Figure 137 on page 127 shows an example of the Change Session Defaults display in a browse session. The *Screen size* field appears only if you are working with a 27 x 132-capable display.

```
                        Change Session Defaults

Type choices, press Enter.

     Amount to roll . . . . . . . . . . .  F         H=Half, F=Full
                                                     C=Cursor, D=Data
                                                     1-999
     Full screen mode . . . . . . . . . .  N         Y=Yes, N=No
     Screen size  . . . . . . . . . . . .  1         1=27x132, 2=24x80













   F3=Exit    F5=Refresh    F12=Cancel
   F14=Find options        F15=Browse options
```
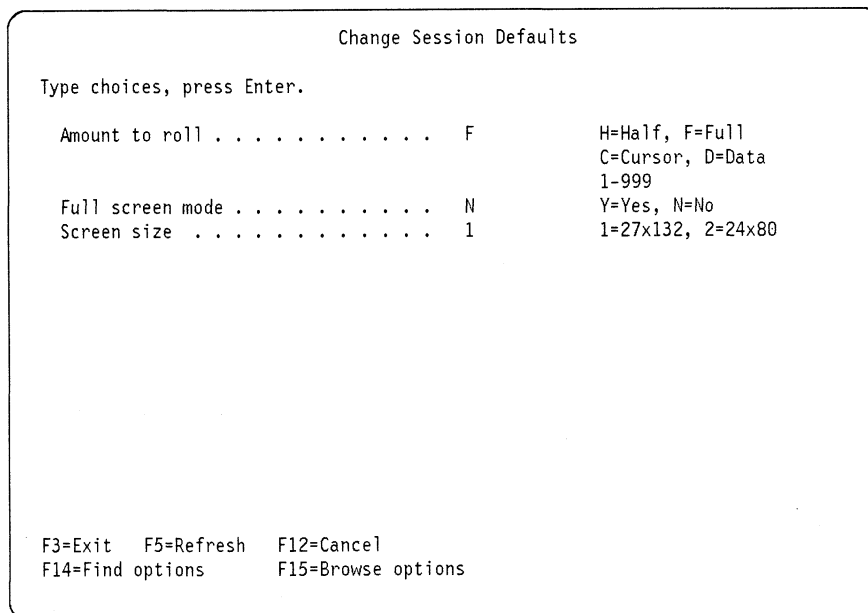
Figure 137. Change Session Defaults Display in a Browse Session

The default value is shown for each field on the Change Session Defaults display. Specify a new value for each field or press Enter to use the default values. Some defaults are dependent on the type of the member, while others are dependent on the value you entered and used during the last edit session. If there is an error in the input, SEU highlights the incorrect input. You must correct the error before you can save the fields.

The fields on the Change Session Defaults display are:

> *Amount to roll.* Specify the number of lines to move on the display when you press Page Up, Page Down, F19 = Left, and F20 = Right. Type H (Half) to move a half page of records. Type F (Full) to move a full page of records. Type C (Cursor) to move by the cursor position. Type D (Data) to move by the data (a full page of records minus a line or minus a column). Type the number of lines or columns you want to move.

> *Full screen mode.* Type Y to use SEU in full screen mode. Full screen mode removes the function key list from the bottom and the format line from the top of the Browse display. This gives you four additional browse records to work with.

> *Screen size.* Type 1 (27x132) to set the screen size at 27 x 132. Type 2 (24x80) to set the screen size at 24 x 80. This field appears only if you are using a 27 x 132-capable display.

Using the SEU SET Command

You can use the SEU SET command to change the following for the browse session:

- The amount by which the display moves when you press Page Up, Page Down, F19 = Left, or F20 = Right: by a full page, by a half page, by the cursor position, by data (a full page minus a column or a line), or by a specific number of lines

- Full screen mode turned on or off

- Case match for find string search turned on or off
- Uppercase only or mixed-case input.

For more information on the SEU SET command, see "Tailoring Your Session Defaults" on page 117.

Figure 138 shows an example of the SET command on the Browse display. The SET ROLL H command is used to set the amount to move on the display when you press the Page Up, Page Down, F19 = Left, and F20 = Right keys.

```
Columns . . . :   1  71              Browse              LIBRNAME01/FILENAME01
SEU==> SET ROLL H_____        MEMBNAME01
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
      *************** Beginning of data *************************************
0001.00 This is the first record in the member.
0002.00 This is record number 2.
0003.00 This is record number 3.
0004.00 This is record number 4.
0005.00 This is record number 5.
0006.00 This is record number 6.
0007.00 This is record number 7.
0008.00 This is record number 8.
0009.00 This is record number 9.
0010.00 This is record number 10.
0011.00 This is record number 11.
0012.00 This is record number 12.
0013.00 This is record number 13.
0014.00 This is the last record in the member.
      *************** End of data ******************************************


 F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
 F16=Repeat find        F24=More keys
```

Figure 138. SET Command with ROLL Option on the Work Screen

To set the amount to roll to half a page, type SET ROLL H on the SEU command line as shown in Figure 138. Press a positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right to move half a page of data up, down, left, or right.

Using Full Screen Mode on a Browse Display

Full screen mode lets you remove the format line from the top and the function key list from the bottom of the Browse display, giving you four additional Browse records to work with. Figure 139 on page 129 shows an example of the Browse display in full screen mode.

Note: The function keys are still valid for the Browse display in full screen mode, even though they are not shown.

```
┌─────────────────────────────────────────────────────────────────────┐
│ Columns . . . :   1  71              Browse               QGPL/QRPGSRC │
│ SEU==> _____      MEMBNAME01 │
│ *************** Beginning of data ************************************** │
│ 0001.00      H                                                          │
│ 0002.00      FCUSMINQ CF  E                    WORKSTN                   │
│ 0003.00      FCUSMSTL IF  E         K          DISK                      │
│ 0004.00      ICUSMSTL NS  01                                             │
│ 0005.00      I                                  1   5 CUSNO              │
│ 0006.00      I                                  6  25 CUSNAM             │
│ 0007.00      I                                 26  55 ADDRES             │
│ 0008.00      C           START     TAG                                  │
│ 0009.00      C                     EXFMTCUSPMT                CUST# PROMPT│
│ 0010.00      C    15               SETON               LR    15 - END PRO│
│ 0011.00      C    15               GOTO END                              │
│ 0012.00      C           CUST      CHAINCUSREC              99 GET ADDR REC│
│ 0013.00      C                     GOTO START                99 - NOT FOU│
│ 0014.00      C                     EXFMTCUSFLDS               WRITE ADDR R│
│ 0015.00      C                     GOTO START                            │
│ 0016.00      C           END       TAG                                   │
│ 0017.00      C           QTY       MULT UPRICE  AMT    122               │
│ 0018.00      C           AMT       MULT 1.2     OAMT   122               │
│ 0019.00      C           OAMT      SUB  COMS    NAMT   122               │
│ **************** End of data ****************************************** │
└─────────────────────────────────────────────────────────────────────┘
```

Figure 139. Browse Display in Full Screen Mode

You can use the full screen mode while browsing members or browsing spooled files. To switch to full screen mode, press F13 = Change session defaults on the Browse display to access the Change Session Defaults display shown in Figure 136 on page 126. Type Y in the *Full screen mode* field. To switch to full screen mode without using the Change Session Defaults display, type SET EXPERT on the SEU command line and press any positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right.

To cancel full screen mode and return to the normal mode of operation, press F13 = Change session defaults again to access the Change Session Defaults display, and type N in the *Full screen mode* field. To switch to the normal mode without using the Change Session Defaults display, type SET EXPERT OFF on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19, or F20). SEU returns the normal Browse display.

Performing Find Operations

You can search the records in a Browse display for a specified string of characters or a last-changed date by using the Find Options display. To access this display, press F14 = Find options on the Browse display, as shown in Figure 140 on page 130.
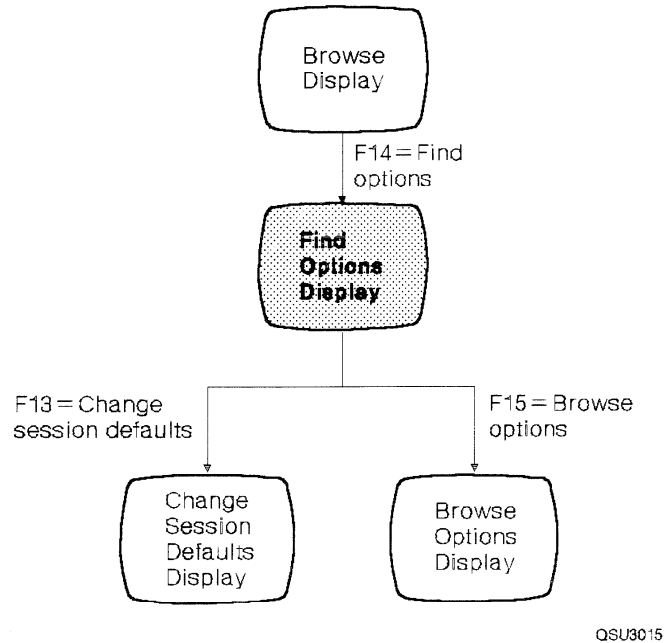
QSU3015

Figure 140. Accessing the Find Options Display

Using the Find Options Display

The Find Options display is similar to the Find/Change Options display. You can do the following on the Find Options display:

- Search all records for a specified string
- Search only specific records for a specified string
- Search all records for a specified date.

You cannot do the following on the Find Options display:

- Perform a change operation
- Perform a find operation for syntax errors except on a spooled file.

Figure 141 on page 131 shows an example of the Find Options display.

```
                           Find Options

Type choices, press Enter.

    Find . . . . . . . . . . . . .   _____
    From column number . . . . . .   1_          1-80
    To column number . . . . . . .   80_         1-80 or blank
    Occurrences to process . . . .   1           1=Next, 2=All
                                                  3=Previous
    Records to search . . . . . . .  1           1=All, 2=Excluded
                                                  3=Non-excluded
    Kind of match . . . . . . . . .  2           1=Same case
                                                  2=Ignore case

    Search for date . . . . . . . .  92/09/10    YY/MM/DD or YYMMDD
        Compare . . . . . . . . . .  _           1=Less than
                                                  2=Equal to
                                                  3=Greater than




    F3=Exit    F5=Refresh    F12=Cancel    F13=Change session defaults
    F15=Browse options       F16=Find
```

Figure 141. Find Options Display

When you begin an SEU browse session, the Find Options display you see at first contains the default values for each field. On subsequent uses of the display, the value for some fields is the value you previously entered and saved. If there is an error in the input, SEU highlights the incorrect input. You must correct the error before you can save the fields.

To save the values you entered for the *Find* field, press Enter or F16 = Find. If there are no errors in the input, SEU saves the field and shows it the next time you call the Find Options display.

The fields on the Find Options display are:

> *Find.* Specify the character string you want to find. This field can also contain the string entered for the SEU FIND command on the SEU command line on the Browse display. SEU searches the member for this character string.

> For additional information on the find operation, see "Finding Strings with Quotation Marks, Apostrophes, and Blanks" on page 132, "Finding Dates" on page 133, "Finding Syntax Errors" on page 133, and "Finding and Changing DBCS Strings" on page 213.

> *From column number* and *To column number.* Specify the column numbers which define the left and right boundaries for the find operation. The boundary columns are included in the range. The default values are 1 and the record length. Leave the *To column number* field blank to search for strings starting in the column specified for the *From column number* field.

> SEU only searches this range for the find string, so only data within this range is affected by the find operation.

> *Occurrences to process.* Type 1 (Next) to process only the next relevant occurrence of the find string. Type 2 (All) to process all relevant occurrences. Type 3 (Previous) to process only the previous occurrence of the *Find* string. A relevant occurrence is dependent upon the *Records to search,*

Kind of match, Occurrences to process, From column number, To column number fields, and the cursor position. The default for this field is 1 (Next).

Records to search. Type 1 (All) to search for the find string in excluded and nonexcluded records. Type 2 (Excluded) to search only excluded records. Type 3 (Non-excluded) to search only nonexcluded records. The default for this field is 1 (All).

Note: If an excluded record contains the find string, SEU performs an implicit Show (S) line command to redisplay that record. See "Exclude and Show Commands" on page 94 for more information on the Exclude and Show line commands.

Kind of match. Type 1 (Same case) to only match strings if the corresponding alphabetic characters have the same case. Type 2 (Ignore case) to match strings with the same corresponding alphabetic characters regardless of case. The default for this field is 2 (Ignore case).

Note: For display devices configured for the Japanese language, the default for this field is 1 (Same case).

Search for date. Specify a date. SEU searches for records changed before that date, on that date, or after that date, depending on the value you specify for the *Compare* field. The default is the current system date.

Compare. Specify which records SEU searches by using this value and the date specified for the *Search for date* field. Type 1 (Less than) to search records changed before the specified date. Type 2 (Equal to) to search records changed on the specified date. Type 3 (Greater than) to search records changed after the specified date. Leave this field blank to search for the find string and not for the date (see "Finding Dates" on page 133 for more information). The default value is a blank.

Finding Strings with Quotation Marks, Apostrophes, and Blanks

If the string you type for the *Find* field is enclosed in quotation marks or apostrophes, the quotation marks and apostrophes are ignored for the search. Otherwise, the string begins in the first position and includes all characters up to and including the last nonblank character. Enclose the string in quotation marks or apostrophes to include beginning and ending quotation marks, apostrophes, or trailing blanks. Two quotation marks adjacent to each other define the null string.

Figure 142 shows how to find strings with quotation marks, apostrophes, and blanks.

Figure 142 (Page 1 of 2). Finding Strings with Quotation Marks, Apostrophes, and Blanks

To Find This String	Specify This String
ABC	ABC or 'ABC'
'ABC'	''ABC''
'ABC	'ABC
ABC'	ABC'
ƀ'ABC'ƀ	'ƀ'ABC'ƀ'
O'NEIL	O'NEIL
ƀƀƀƀABC	ƀƀƀƀABC

To Find This String	Specify This String
ABCƀƀƀƀ	'ABCƀƀƀƀ'
ABCƀDEF	ABCƀDEF
*ERR	'*ERR'
*	'*'

Note: ƀ=blank

Finding Dates

You can use the find operation to locate all records last changed on a specified date. Specify the date in the *Search on date* field, and specify 1, 2, or 3 for the *Compare* field. When you press F16=Find, SEU locates the records with the specified date.

Searching for a date and searching for the find string are mutually exclusive. The *Compare* field determines which type of find is performed when you press F16=Find. If the *Compare* field is blank, SEU searches for the find string. If the compare field is not blank, SEU searches for the date.

Finding Syntax Errors

You can use the find operation to locate syntax errors in spooled files. To find syntax errors, type *ERR in the *Find* field, leaving the remainder of the field blank. When you press F16=Find, SEU locates any syntax errors in the spooled file.

You can also use the SEU FIND command on the Browse display to locate syntax errors in spooled files. Type FIND *ERR on the SEU command line and press F16=Repeat find or a positional function key (Enter, Page Up, Page Down, F19, or F20). SEU locates any syntax errors in the spooled file.

Using the SEU FIND Command

You can perform most of the functions on the Find Options display by using the SEU FIND command on the Browse display. All the values you specified on the Find Options display are retained. Values entered in the FIND command appear on the Find Options display. Any parameters not specified are reset back to the default.

Use the SEU FIND command to search for a string of characters in a set of records. Type the SEU FIND command on the SEU command line at the top of the Browse display and press Enter. Use the SEU SET MATCH command to match the case of the search string.

The SEU FIND command is the same as the SEU FIND command for the Find/Change Options display. For more information, see "Using the SEU FIND, CHANGE, and SET Commands" on page 52, "Finding and Changing Character Strings" on page 112, "Tailoring Your Find and Change Operations" on page 116 and "Tailoring Your Session Defaults" on page 117.

Using SEU with the Programming Development Manager (PDM) Find String Function

The find string function (Option 25 on the Work with Members Using PDM display) in the Programming Development Manager (PDM) lets you search selected members in a list or a subset of a list for a character string. An option of the find string function lets you use SEU to browse members that contain the string you specify. For more information on using the find string function of the Programming Development Manager (PDM), refer to the *PDM User's Guide and Reference*.

If you specify 5 (Browse) for the *Option* field on the Programming Development Manager (PDM) Find String display, PDM calls SEU to browse the selected members in the list that contain the string you specify. Also, PDM passes the values for the *Find*, *Columns to search*, and *Kind of Match* fields to the Find Options display in SEU each time it calls SEU.

When SEU starts, the cursor is positioned on the first occurrence of the find string. Press F16 = Find to find each subsequent occurrence.

The Programming Development Manager (PDM) find string function for a browse session is the same as the PDM find string function for an edit session, with one exception. The Find Options display is used in place of the Find/Change Options display. For more information, see "Changing Strings" on page 53.

Leaving SEU

When you leave a browse session, you can choose to continue searching the remaining members you selected on the Work with Members Using PDM display, or you can cancel the search and return to the Work with Members Using PDM display.

To leave SEU in a browse session, do one of the following:

- Press Enter.

  The browse session ends. The Programming Development Manager (PDM) continues to search the remaining members you selected for the find string.

- Press F3 = Exit or F12 = Cancel.

  The browse session ends. PDM cancels the search for the find string.

Browsing Another Member

While browsing a member, you can browse another member, a spooled file, or an output queue. You can perform these operations by using the Browse Options display. To access this display, press F15 = Browse options on the Browse display, as shown in Figure 143 on page 135.
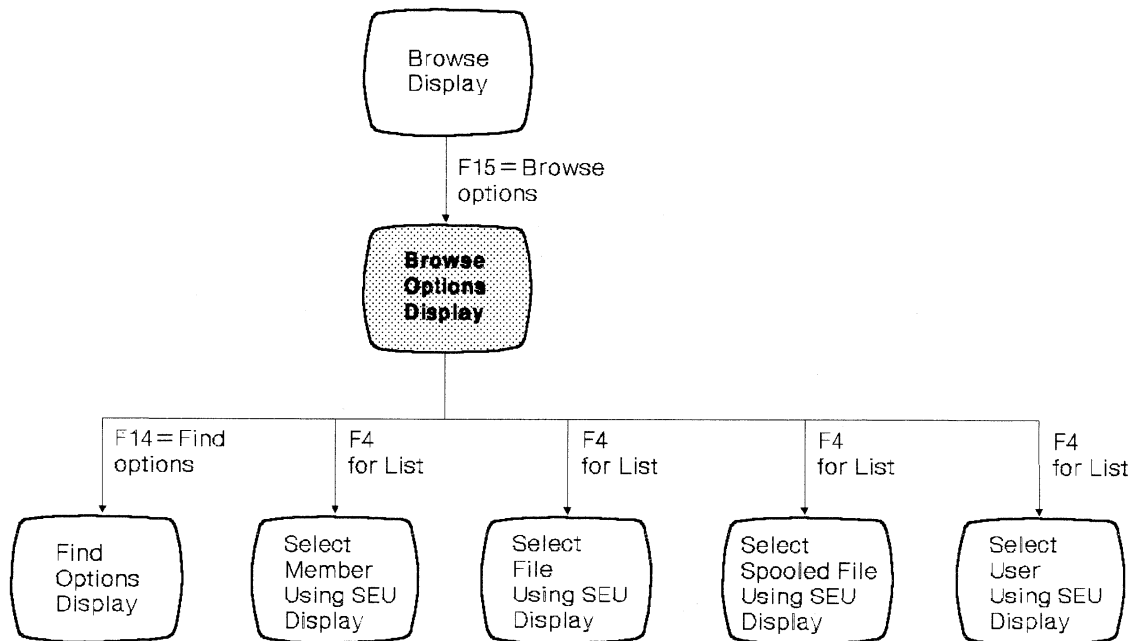
Figure 143. Accessing the Browse Options Display

Using the Browse Options Display

You can do the following on the Browse Options display:

- Start a split session while browsing a member to look at another member in a source physical file, physical file, or spooled file. For more information, see Chapter 8, "Splitting the Edit and Browse Displays" on page 139.

- Look at an output queue while browsing a member.

- Specify a new library or file from which to select a member.

- Select another file from which to browse a member.

- Select a spooled file to browse.

- Select another user's spooled file to browse.

Figure 144 on page 136 shows an example of the Browse Options display.

```
┌─────────────────────────────────────────────────────────────────────┐
│                          Browse Options                             │
│                                                                     │
│  Type choices, press Enter.                                         │
│                                                                     │
│     Selection . . . . . . . . . . .   1           1=Member         │
│                                                   2=Spool file     │
│                                                   3=Output queue   │
│                                                                     │
│     Browse member . . . . . . . . .   MEMBNAME01  Name, F4 for list │
│         File  . . . . . . . . . . .   FILENAME01  Name, F4 for list │
│           Library . . . . . . . . .   LIBRNAME01  Name, *CURLIB, *LIBL │
│                                                                     │
│     Browse spool file . . . . . . .   MEMBNAME01  Name, F4 for list │
│         Job . . . . . . . . . . . .   MEMBNAME01  Name             │
│           User  . . . . . . . . . .   USERID____  Name, F4 for list │
│           Job number  . . . . . . .   *LAST_      Number, *LAST    │
│         Spool number  . . . . . . .   *LAST       Number, *LAST, *ONLY │
│                                                                     │
│     Display output queue  . . . . .   QPRINT____  Name, *ALL       │
│         Library . . . . . . . . . .   *LIBL_____  Name, *CURLIB, *LIBL │
│                                                                     │
│   F3=Exit      F4=Prompt       F5=Refresh        F12=Cancel        │
│   F13=Change session defaults  F14=Find options                    │
│                                                                     │
└─────────────────────────────────────────────────────────────────────┘
```

Figure 144. Browse Options Display

The fields on the Browse Options display are:

> *Selection.* Type 1 (Member) or 2 (Spool file) to start a split session. Type 3 (Output queue) to look at an output queue.

> *Browse member.* Specify the name of the member you want to browse. If you press F4 for List when the cursor is in this field, you see the Select Member Using SEU display. For more information, see "Selecting a Member" on page 137. To view a subset of the list of members, type the name or partial name and then press F4. See "Browsing or Copying Another Member" on page 55 for examples.

> *File.* Specify the name of the source physical file or physical file that contains the member listed in the *Browse member* field. The default value for this field is the name of the file that contains the member being edited, or the last value entered during the session. If you press F4 for List when the cursor is in this field, you see the Select File Using SEU display. For more information, see "Selecting Another File" on page 137. To view a subset of the list of files, type the name or partial name and then press F4. See "Browsing or Copying Another Member" on page 55 for examples.

> *Library.* Specify the name of the library that contains the source physical file or physical file listed in the *File* field. The default value for this field is the name of the library that contains the member being edited, or the last value entered in the session.

> *Browse spool file.* Specify the name of the spooled file you want to browse. The default value for this field is the name of the member you are editing. If you press F4 for List when the cursor is in this field, you see the Select Spooled File Using SEU display. For more information, see "Selecting a Spooled File" on page 137. To view a subset of the list of spooled files, type the name or partial name and press F4. See "Browsing or Copying Another Member" on page 55 for examples.

> *Job.* Specify the name of the job that created the spooled file. The default value for this field is the name of the member you are editing.

User. Specify the user profile name under which the job ran. The default value for this field is the current user ID. If you press F4 for List when the cursor is in this field, you see the Select User Using SEU display. For more information, see "Selecting Another User" on page 138. To view a subset of the list of users, type the name or partial name and then press F4. See "Browsing or Copying Another Member" on page 55 for examples.

Job number. Specify the 6-digit number of the job that created the spooled file. The default value for this field is *LAST.

Spool number. Specify the 5-digit number of the spooled file. The default value for this field is *LAST.

Display output queue. Specify the name of the output queue. The default value for this field is QPRINT. If you specify *ALL, do not specify a library in the *Library* field.

Library. Specify the name of the library for the output queue. The default value for this field is *LIBL. If you specify *LIBL, do not specify *ALL in the *Display output queue* field.

Selecting a Member

You can select another member to browse while you are looking at a member on the Browse display. To do this, press F15 = Browse options to access the Browse Options display. Move the cursor to the *Browse member* field on the Browse Options display and press F4 for List to access the Select Member Using SEU display. Select a member to browse from the Select Member Using SEU display.

The Select Member Using SEU display called from the Browse display is the same display called from the Edit display. See "Selecting a Member" on page 59 for more information.

Selecting Another File

You can select another file that contains members to browse while you are looking at a member on the Browse display. To do this, press F15 = Browse options to access Browse Options display. Move the cursor to the *File* field on the Browse Options display and press F4 for List to access the Select File Using SEU display. Select the file that contains other members that you want to browse from the Select File Using SEU display.

The Select File Using SEU display called from the Browse display is the same display called from the Edit display. See "Selecting Another File" on page 60 for more information.

Selecting a Spooled File

You can select a spooled file to browse while you are looking at a member on the Browse display. To do this, press F15 = Browse options to access the Browse Options display. Move the cursor to the *Browse spool file* field on the Browse Options display and press F4 for List to access the Select Spooled File Using SEU display. Select the spooled file that you want to browse from the Select Spooled File Using SEU display.

The Select Spooled File Using SEU display called from the Browse display is the same display called from the Edit display. See "Selecting a Spooled File" on page 61 for more information.

Selecting Another User

You can select another user's spooled file to browse while you are looking at a member on the Browse display. To do this, press F15 = Browse options to access the Browse Options display. Move the cursor to the *User* field on the Browse Options display and press F4 for List to access the Select User Using SEU display. Select the user from whom you want to browse a spooled file from the Select User Using SEU display.

The Select User Using SEU display called from the Browse display is the same display called from the Edit display. See "Selecting Another User" on page 63 for more information.

Chapter 8. Splitting the Edit and Browse Displays

This chapter describes how to:

- Split the Edit display to get a split Edit/Browse display
- Split the Browse display to get a split Browse/Browse display
- Use the options displays with the split displays
- Use SEU commands with split displays.

Splitting the Edit Display

To split the Edit display, press F15 = Browse/Copy options to access the Browse/Copy Options display, then select option 1 (Member) or option 2 (Spool file), as shown in Figure 145.
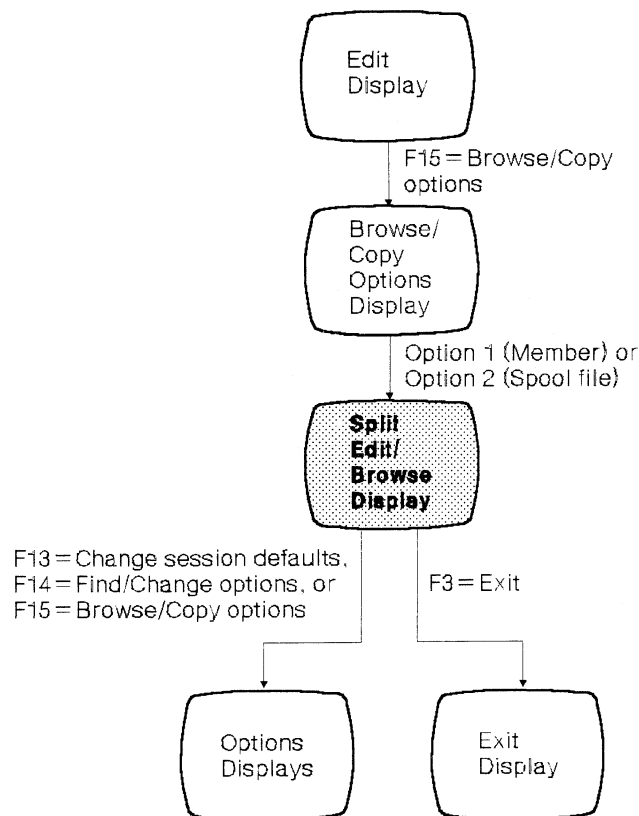
QSU3017

Figure 145. Accessing the Split Edit/Browse Display

Using the Split Edit/Browse Display

You can perform the same operations in the edit session on a split Edit/Browse display as you can on an Edit display, except for requesting a prompt. For more information, see "Using the Edit Display" on page 25.

You can perform all operations in the browse session on a split Edit/Browse display as you can on a Browse display. For more information, see "Using the Browse Display" on page 124.

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Figure 146 shows an example of the split Edit/Browse display.

```
Columns . . . :   1  71            Edit               LIBRNAME01/FILENAME01
SEU==> _____        MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
        *************** Beginning of data ************************************
0001.00 This is record 1
0002.00 This is record 2
0003.00 This is record 3
0004.00 This is record 4
0005.00 This is record 5
0006.00 This is record 6
0007.00 This is record 7

Columns . . . :   1  71            Browse             LIBRNAME01/FILENAME01
SEU==> _____        MEMBNAME01
        *************** Beginning of data ************************************
0001.00 This is record 1
0002.00 This is record 2
0003.00 This is record 3
0004.00 This is record 4
0005.00 This is record 5
0006.00 This is record 6
 F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
 F16=Repeat find        F17=Repeat change          F24=More keys
```

Figure 146. Split Edit/Browse Display

When you split an Edit or Browse display, the split line (the line separating the two sessions) is placed in the middle of the Edit or Browse display. You can move the split line by using the F6 = Move split line key. See Figure 147 on page 141 for details on how to move the split line.

To return to a single edit session, press either F12 = Cancel or Enter without making any changes in either session.

Line 24 on the display contains messages for both sessions. The remaining fields on the display are the same as for the Edit and Browse displays, respectively. For information on how to specify the fields on the edit session, see "Using the Edit Display" on page 25. For information on how to specify the fields on the browse session, see "Using the Browse Display" on page 124.

Function Keys for the Split Edit/Browse Display

Function keys for the split Edit/Browse display can be one of two types: session-dependent and session-independent. Session-dependent keys perform their function only in one session. If the cursor is on or above the split line, a session-dependent function key performs its corresponding operation only in the top session. If the cursor is below the split line, a session-dependent key performs its corresponding operation only in the bottom session. For example, if the cursor is in the top session of a split display and you press F16 = Repeat find, SEU finds the string only in the top session.

Session-independent keys perform their function in both sessions, regardless of which session contains the cursor. For example, if the cursor is in either session on a split display and you press F12 = Cancel, SEU returns the single Edit display.

When you use either a session-dependent function key or a session-independent function key, the following additional processing occurs in both sessions:

- Lines in the edit session that have been changed are updated and checked for syntax errors.

- All line commands are run before a key is processed. For example, if you press F16 = Repeat find, SEU processes all unprocessed line commands and then finds the string in the appropriate session.

Figure 147 shows the function keys for each session on the split Edit/Browse display. A Y indicates that the key is valid in that session of the display. The table also uses a Y to indicate keys that are session-dependent. For example, F5 = Refresh is session-dependent, and refreshes only the session containing the cursor.

Unless otherwise noted, keys in the edit session perform the same function as the keys on the Edit display and keys in the browse session perform the same function as the keys on the Browse display.

Figure 147. Function Keys for the Split Edit/Browse Display

Function Key	Name of Function Key	Edit Session	Browse Session	Session-Dependent
F1	Help	Y	Y	N
F3	Exit	Y	Y	N
F5	Refresh	Y	Y.	Y
F6	Move split line	Y	Y	N
F9	Retrieve	Y	Y	Y
F10	Cursor	Y	Y	Y
F12	Cancel	Y	Y	N
F13	Change session defaults	Y	Y	Y
F14	Find/Change options	Y	N	Y
F14	Find options	N	Y	Y
F15	Browse/Copy options	Y	Y	N
F16	Repeat find	Y	Y	Y
F17	Repeat change	Y	N	Y
F19	Left	Y	Y	Y
F20	Right	Y	Y	Y
F21	System command	Y	Y	N
F24	More keys	Y	Y	N
Home	Returns the cursor to the Home position	Y	Y	Y
Page	Page Up and Page Down	Y	Y	Y
Enter	Enter	Y	Y	N

Splitting the Browse Display

To split the Browse display, press F15=Browse options to access the Browse Options display, then select option 1 (Member) or option 2 (Spool file), as shown in Figure 148.
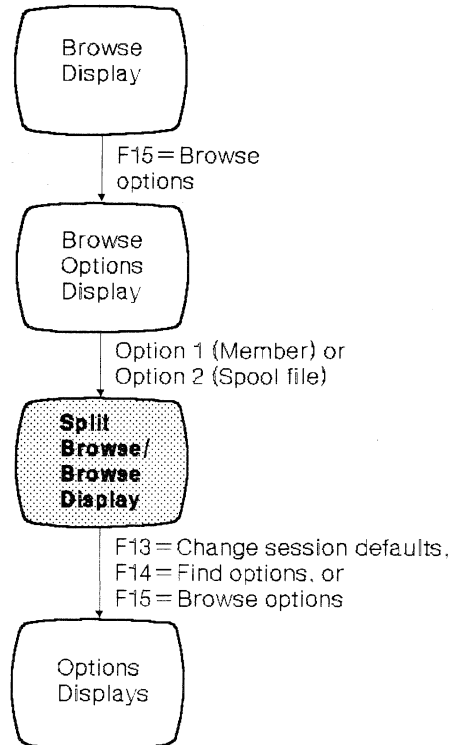
QSU3018

Figure 148. Accessing the Split Browse/Browse Display

Using the Split Browse/Browse Display

You can perform all operations in either browse session on a split Browse/Browse display that you can on a Browse display, except for copying records from one browse session to the other. For more information, see "Using the Browse Display" on page 124.

Figure 149 on page 143 shows an example of the Split Browse/Browse display.

```
Columns . . . :  1  71            Browse          LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT ** ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
        *************** Beginning of data ***********************************
0001.00 This is record 1
0002.00 This is record 2
0003.00 This is record 3
0004.00 This is record 4
0005.00 This is record 5
0006.00 This is record 6
0007.00 This is record 7

Columns . . . :  1  71            Browse          LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
        *************** Beginning of data ***********************************
0001.00 This is record 1
0002.00 This is record 2
0003.00 This is record 3
0004.00 This is record 4
0005.00 This is record 5
0006.00 This is record 6
0007.00 This is record 7
 F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
 F16=Repeat find        F24=More keys
```

Figure 149. Split Browse/Browse Display

When you split a Browse display, the split line (the line separating the two sessions) is placed in the middle of the Browse display. You can move the split line by using F6=Move split line. See Figure 147 on page 141 for details on how to move the split line.

To return to a single browse session, press either F12=Cancel or Enter without making any entries.

Line 24 on the display contains messages for both sessions. The remaining fields in each session of the display are the same as those on the Browse display.

Function Keys for the Split Browse/Browse Display

Function keys for the split Browse/Browse display can also be session-dependent or session-independent. The function keys for the split Browse/Browse display are shown in Figure 150. The table uses a Y to indicate keys that are session-dependent. For example, F5=Refresh is session-dependent, and refreshes only the session containing the cursor.

Unless otherwise noted, the keys perform the same function as the keys for the Browse display.

Figure 150 (Page 1 of 2). Function Keys for the Split Browse/Browse Display

Function Key	Name of Function Key	Session-Dependent
F1	Help	N
F3	Exit	N
F5	Refresh	Y
F6	Move split line	N
F9	Retrieve	Y

Figure 150 (Page 2 of 2). Function Keys for the Split Browse/Browse Display

Function Key	Name of Function Key	Session-Dependent
F10	Cursor	Y
F12	Cancel	N
F13	Change session defaults	N
F14	Find options	Y
F15	Browse options	N
F16	Repeat find	Y
F19	Left	Y
F20	Right	Y
F21	System command	N
F24	More keys	N
Home	Returns the cursor to the home position	Y
Page	Page Up and Page Down	Y
Enter	Enter	N

Using SEU Commands on a Split Display

Each split display contains one command line for each session. You can enter SEU commands in the sessions that currently support equivalent function. Commands for a split display can be one of two types: session-dependent and session-independent.

Session-dependent commands perform their function only in one session. If the cursor is on or above the split line, a session-dependent command performs its corresponding operation only in the top session. If the cursor is below the split line, a session-dependent command performs its corresponding operation only in the bottom session. For example, if the cursor is in the top session of a split display and the FIND command is entered, SEU finds the string only in the top session.

Session-independent commands perform their function in both sessions, regardless of which session contains the cursor. For example, if the cursor is in either session on a split display and the SET ROLL command is entered, the amount to roll for both sessions is affected.

For more information on using SEU commands with split displays, see Figure 116 on page 107.

Using Options Displays from a Split Display

When you request an options display, SEU calls the options display and temporarily suspends the split display. The options display that appears depends on which session and which display you are in when you press the function key. For example, if you press F14, and:

- The cursor is in the edit session of the split Edit/Browse display, SEU calls the Find/Change Options display

- The cursor is in the browse session of the split Edit/Browse display, SEU calls the Find Options display

- The cursor is in either session of the split Browse/Browse display, SEU calls the Find Options display.

Note: When you are doing a find operation in a split session, the find strings specified in the top and bottom sessions are independent of each other. For example, if you do a find operation in the top session and save the find string, the string you saved is used as the default find string for all subsequent finds in that session. If, however, after saving a find string in the top session, you then move to the bottom session to do a find, the string you saved on the Find/Change Options (or the Find Options) display for the top session is not used as the default for the find string in the bottom session. For more information about saving find strings, see "Using the Find/Change Options Display" on page 48.

Figure 151 shows how to access the options displays from the split Edit/Browse and split Browse/Browse displays.

```
Columns . . . :  1  71           Edit              LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
        *************** Beginning of data ***********************************
0001.00
0002.00
0003.00
0004.00
0005.00
0006.00


Columns . . . :  1  71           Browse            LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME02
        *************** Beginning of data ***********************************
0001.00
0002.00
0003.00
0004.00
0005.00
0006.00

F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
F16=Repeat find        F17=Repeat change           F24=More keys
```

Edit session

F13 = Change session defaults display
F14 = Find/Change options display
F15 = Browse/Copy options display

Browse session

F13 = Change session defaults display
F14 = Find options display
F15 = Browse/Copy options display

```
Columns . . . :  1  71           Browse            LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME01
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
        *************** Beginning of data ***********************************
0001.00
0002.00
0003.00
0004.00
0005.00
0006.00


Columns . . . :  1  71           Browse            LIBRNAME01/FILENAME01
SEU==> _____ MEMBNAME02
        *************** Beginning of data ***********************************
0001.00
0002.00
0003.00
0004.00
0005.00
0006.00

F3=Exit   F5=Refresh   F9=Retrieve   F10=Cursor   F12=Cancel
F16=Repeat find        F24=More keys
```

Browse session

F13 = Change session defaults display
F14 = Find options display
F15 = Browse options display

Browse session

F13 = Change session defaults display
F14 = Find options display
F15 = Browse options display

QSU3019

Figure 151. Accessing the Options Displays from a Split Display

You can tailor the environment for both types of sessions of a split display by pressing F13=Change session defaults, or by using the equivalent SEU commands.

If the cursor is in the edit session, the Change Session Defaults display for the edit session appears, as shown in Figure 33 on page 36. If the cursor is in the browse session, the Change Session Defaults display containing a subset of the edit session attributes is displayed, as shown in Figure 137 on page 127. For more information on changing your session attributes, see "Changing the Edit Session Environment" on page 35 and "Changing the Browse Session Environment" on page 125.

Chapter 9. Exiting from SEU

This chapter discusses how to exit from an SEU session using the Exit display and the SEU FILE, SAVE and CANCEL commands.

Saving a Member

You save a new member or changes to an existing member and exit from SEU by using the Exit display. To access the Exit display, press F3=Exit on the Edit display or any split display. Press F3=Exit on any options display from an Edit or split display to return the Edit or split display. Press F3=Exit again to exit from SEU.

Figure 152 shows how to access the Exit display.
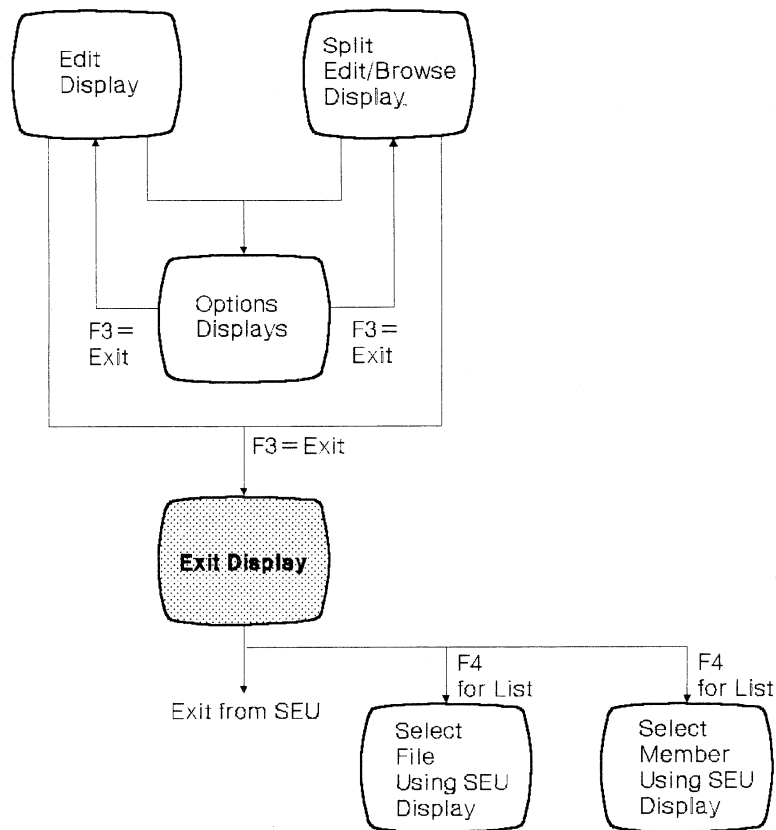
QSU3020

Figure 152. Accessing the Exit Display

Using the Exit Display

You can use the Exit display to perform the following operations on the member you are editing:

- Exit and create a new member
- Exit without creating the member
- Exit and save an existing member with the changes you entered

- Exit without saving the changes to an existing member
- Resequence the member you edited
- Print the member
- Go to the member list (Work with Members Using SEU display)
- Return to editing
- Log Operation Control Language (OCL) statements
- Cancel the Programming Development Manager (PDM) find string function.

Figure 153 shows an example of the Exit display.

```
                              Exit

  Type choices, press Enter.

      Change/create member  . . . . . . .   N            Y=Yes, N=No
         Member  . . . . . . . . . . . . .   MEMBNAME01   Name, F4 for list
         File  . . . . . . . . . . . . . .   FILENAME01   Name, F4 for list
           Library . . . . . . . . . . . .     LIBRNAME01 Name
         Text  . . . . . . . . . . . . . .   Customer Data file for Mailing List____
      _____
         Resequence member . . . . . . . .   Y            Y=Yes, N=No
             Start . . . . . . . . . . . .   0001.00      0000.01-9999.99
             Increment . . . . . . . . . .   01.00        00.01-99.99

      Print member  . . . . . . . . . . .   N            Y=Yes, N=No

      Return to editing . . . . . . . . .   N            Y=Yes, N=No

      Go to member list . . . . . . . . .   Y            Y=Yes, N=No



  F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel
```

Figure 153. Exit Display

The fields on the Exit display are:

Change/create member. Type Y (Yes) to save the changes you made during the edit session. If you are editing a new member, SEU creates the new member and saves the new records. Type N (No) to discard any changes you made during the edit session.

The default for this field is Y if you made changes to the member, and N if you did not make changes to the member. You made changes if you changed, added, copied, or deleted a record.

Note: SEU does not discard changes to a member contained in the temporary work space unless you exit from SEU by either specifying N (No) in the *Change/create member* field, or pressing F3 = Exit.

Member. Specify the name of the member you are editing, or specify a new name. Any changes made during the edit session are saved into the member with this name. The default is the member name you specify when you start the session. If you press F4 for List when the cursor is in this field, you access the Select Member Using SEU display. For more information, see "Selecting a Member" on page 59. To view a subset of the list of members, type the name or partial name and then press F4. See "Browsing or Copying Another Member" on page 55 for examples.

File. Specify the name of the source physical file that contains the member you are editing, or specify another file name. Any changes made during the

edit session are saved into the file with this name. The default is the file name you specify when you start the session. If you press F4 for List when the cursor is in this field, you access the Select File Using SEU display. For more information, see "Selecting Another File" on page 60. To view a subset of the list of files, type the name or partial name and then press F4. See "Browsing or Copying Another Member" on page 55 for examples.

Library. Specify the name of the library that contains the file you are editing, or specify another library name. Any changes made during the edit session are saved into the library with this name. The default is the library name you specify when you start the session.

Text. Specify a character string that describes the member. This field contains the text you specified when you created the member you were editing.

Resequence member. Type Y (Yes) to resequence the numbers in the member that you are editing. The sequence numbers begin at 0001.00 (or the value you specify for the *Start* field) and increment by 1 (or the value you specify for the *Increment* field) to the end of the member. Type N (No) in this field to leave the sequence numbers as they are at the end of the edit session. The *Resequence member* field defaults according to the value specified for the *Resequence member default* field on the Change Session Defaults display.

Start. If you typed Y (Yes) for the *Resequence member* field, type a number to use as the first number in the sequence. Valid entries are 0000.01 to 9999.99. The default value is 0001.00. If you typed N (No) for the *Resequence member* field, ignore this field.

Increment. If you typed Y (Yes) for the *Resequence member* field, specify the amount used to increment the sequence numbers. Valid entries are 00.01 to 99.99. The default value is 01.00. If you typed N (No) for the *Resequence member* field, ignore this field.

Print member. Type Y (Yes) to print the member. The default for this field is N (No).

Note: When printing a member with a large logical record length, SEU no longer automatically prints it with triple spacing. To print a member with triple spacing, ensure that the actual record length is greater than 100 characters, and that the logical record length has been set equal to the record length of the file minus 12. (For example, if the record length of the file is 132, set the logical record length to 120.) Otherwise, the member will be printed using the actual record length. Change the logical record length using either the Edit System/36 Source Attribute (EDTS36SRCA) or the Edit System/36 Procedure Attribute (EDTS36PRCA) command.

Return to editing. Type Y (Yes) to return to the edit session. SEU processes the options on the Exit display before leaving it. The default for this field is N (No) if there are no syntax errors or line command errors in the member, and Y (Yes) if there are syntax errors or line command errors in the member.

Go to member list. Type Y (Yes) to return to the Work with Members Using SEU display. If you entered SEU through the Work with Members Using SEU display and there are no options pending on that display, the default for this field is Y (Yes). If you bypassed the Work with Members Using SEU display when you entered SEU, or if there are more options to process in the member list, the default for this field is N (No).

Note: The *Return to editing* and the *Go to member list* fields are mutually exclusive.

Log OCL statements. Type Y (Yes) to log Operation Control Language (OCL) statements in the job log when you run a System/36 procedure in the AS/400 System/36 environment. The *Log OCL statements* field appears when you edit members from the source file QS36PRC. For more information on setting attributes for System/36 procedures, refer to the Change System/36 Procedure Attribute (CHGS36PRCA) command in the *CL Reference*. The default for this field is N (No).

Cancel PDM find string. Type Y (Yes) to cancel the search for the find string. If you want to continue searching members for the find string, type N in the *Cancel PDM find string* field. The *Cancel PDM find string* field appears when you conduct a search on a member by using the Programming Development Manager (PDM) find string function. The default for this field is N (No).

Exiting SEU after Editing DDS Comments

The exit display also allows you to save DDS comments. For more information on exiting SEU after editing DDS comments, see "Using SEU to Edit DDS Comments" on page 32.

Using the SEU SAVE, FILE, and CANCEL Commands

You can perform some of the functions that you can on the Exit display by using the SEU SAVE, FILE, and CANCEL commands.

Use the SEU FILE command to file your changes and exit SEU. Use the SEU SAVE command to save your changes to a member and continue editing. Use the SEU CANCEL command to cancel your changes to a member and exit SEU.

See "Saving, Filing, or Canceling Changes to a Member" on page 119 for more information on using the FILE, SAVE, and CANCEL commands.

Chapter 10. Using Prompts and Format Lines

This chapter discusses how to request and use the AS/400 command prompts supported by SEU, and the SEU high-level-language (HLL) prompts and their corresponding formats.

Prompts and format lines help you create error-free records when you are working with members that contain fixed-format CL or HLL statements. A prompt separates and labels each field in a record, and is shown at the bottom of the Edit display. A format line is shown immediately above the record you are editing and labels the fields in the record according to the source type.

Requesting Prompts and Format Lines

You request a prompt by pressing F4 = Prompt or F23 = Select prompt, or by specifying the P, P?, P*ff*, IP, IP?, or IP*ff* line command on the Edit display. You get either a command prompt or a high-level-language prompt, depending on the source type you are using:

- A command prompt is displayed if you are using CL38, CLP, CLP38, CMD, or CMD38.

- An SQL prompt is displayed if you are using CICSSQLCBL, SQLCBL, SQLFTN, or SQLRPG and the line is valid SQL.

- Online information for BASIC is displayed if the source type of the member you are editing is BAS, BAS38, BASP, or BASP38.

- A high-level-language prompt is displayed if you are using any other source type.

You request a format line by specifying the F, F?, F*ff*, IF, IF?, or I*ff* line command on the Edit display.

Using Command Prompts

You can use command prompts that are supported by the AS/400 system with SEU. When you select a command prompt, SEU calls the AS/400 system to show the command prompts.

When you request a prompt for a record, SEU passes the record to the command prompt. The command prompt determines which prompt to show. If the record is blank or an inserted line, the Major Command Group menu is shown. If the record is not blank or an inserted line, the system tries to find a prompt for the command. If a prompt for the command does not exist, SEU takes control and sends an error message from the system. For BASIC types, the BASIC Help Facility Menu is shown. For SQL types, SQL displays are shown.

For an example of using command prompts, see "Example: Using Prompts for CL Commands" on page 83. For detailed information on command prompts, see the *CL Programmer's Guide*.

SEU does not support format lines that correspond to the command, BASIC, SQL, or user-defined prompts.

Using High-Level-Language Prompts

When you request a high-level-language prompt on an Edit display, SEU inserts the prompt in the bottom part of the display. The record remains in both the edit session and the prompt. If the prompt overlays the record, SEU repositions the display to show the record in the prompt as the first record on the display. You can type data in both the record and the prompt. When both the record and a prompt exist, data from the prompt replaces data entered in the record.

The prompt separates and labels each field in the record you selected according to the source type. Prompts make it easier to enter source information for column-oriented languages such as RPG.

You can type line commands in the *Sequence-number* field for the prompt in the same way as you type them in the *Sequence-number* field for the record. After you type the source information and press Enter, SEU makes the changes to the record from the fields in the prompt.

Figure 154 shows an example of the Edit display with a high-level-language prompt.

```
  Columns . . . :    1  71            Edit                  QRPGSRC/EDIT
  SEU==>  _____        POSTOP
  FMT C   .....CLONO1NO2NO3Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
  0002.00     C           '  '   POST            DSPSTT
  0003.00     C           'B18'  POST            DSPSTT
  ''''''''
  0004.00     C           'B12'  POST            DSPSTT
  0005.00     C                  RETRN
  0006.00     C                  EXFMTEVOKE
  0007.00     C                  EXFMTOUTREC
  0008.00     C                  EXFMTEVOKE
         **************** End of data ******************************************

  Prompt type . . .    C      Sequence number . . .  ''''''''

  Level    NO1NO2NO3 Factor 1    Operation    Factor 2    Result
  __          _____  _____   _____       _____    _____
               Decimal
  Length     Positions   H/N/P   HI  LO  EQ   Comment
  __          _         _      __  __  __    _____

  F3=Exit   F4=Prompt   F5=Refresh        F11=Previous record
  F12=Cancel            F23=Select prompt F24=More keys
```

Figure 154. Edit Display with High-Level-Language Prompt

If you use prompts in full screen mode, the prompts are abbreviated. Figure 155 on page 153 shows an example of the Edit display in full screen mode with an abbreviated high-level-language prompt.

For more information, see "Using Full Screen Mode on the Edit Display" on page 42.

```
 ┌─────────────────────────────────────────────────────────────────┐
 │  Columns . . . :   1  71           Edit              QRPGSRC/EDIT │
 │  SEU==> _____         POSTOP   │
 │  0002.00    C           '   '    POST         DSPSTT             │
 │  0003.00    C           'B18'    POST         DSPSTT             │
 │  ' ' ' ' ' '                                                     │
 │  0004.00    C           'B12'    POST         DSPSTT             │
 │  0005.00    C                    RETRN                           │
 │  0006.00    C                    EXFMTEVOKE                      │
 │  0007.00    C                    EXFMTOUTREC                     │
 │  0008.00    C                    EXFMTEVOKE                      │
 │  0009.00    C           'B14'    POST         DSPSTT             │
 │  0010.00    C                    RETRN                           │
 │  0011.00    C                    EXFMTEVOKE                      │
 │  0012.00    C                    EXFMTOUTREC                     │
 │  0013.00    C                    EXFMTEVOKE                      │
 │  0014.00   *C                                                    │
 │  0015.00   *C                                                    │
 │                                                                  │
 │  Pmt  SeqNbr   Lvl  N01N02N03  Factor1   Opcode  Factor2  Result │
 │  C    ' ' ' ' ' '   _____ ___ ___ _____ _____  _____  _____ ____ │
 │        Len  Dec H/N/P Hi  Lo  Eq  Comment                        │
 │         __   _   _   _   _   _  _____                       │
 └─────────────────────────────────────────────────────────────────┘
```

Figure 155. Edit Display in Full-Screen Mode with Abbreviated Prompts

Selecting a High-Level-Language Prompt

You can select which prompt SEU uses for the Edit display by using the Select Prompt display. One of three Select Prompt displays appears, depending on whether you are editing a System/36, System/38 or an AS/400 member type.

To access a Select Prompt display, request a prompt with the P? or IP? line command, or with F23 = Select Prompt on the Edit display. The cursor position is used to determine which record to prompt. You do not need to have a prompt showing to request the Select Prompt display. Pressing F23 does not update the fields you have changed in the prompt, but it does process line commands and updates to lines in the edit session of the display.

Figure 156 shows how to access a Select Prompt display.
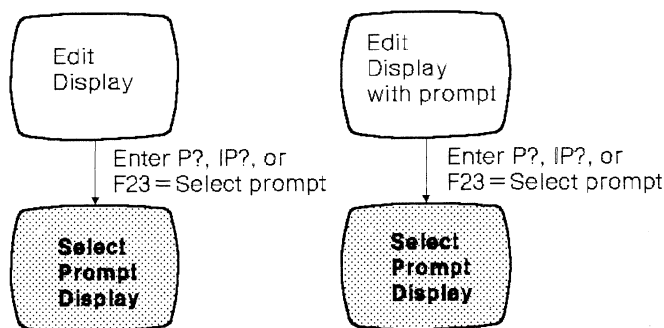
Figure 156. Accessing the Select Prompt Display

Using the Select Prompt Display

Figure 157 shows an example of the Select Prompt display for AS/400 member types.

```
                              Select Prompt

  Type choice, press Enter.

    Prompt type . . . . . . . . . . . .  __        Values listed below

      RPG/400:       H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,SV,C,O,
                     OD,P (O cont),N,* (Comment)
      COBOL:         CB,C*
      REFORMAT/SORT: RH,RR,RF,RC
      DDS:           LF (Logical file),PF (Physical file),
                     BC (Interactive Communications Feature file),
                     DP (Display and Printer file),
                     A* (Comment)
      MNU:           MS,MH,MD,MC (MD cont),CC (Comment)
      FORTRAN:       FT,F*
      Other:         NC (No syntax checking),** (Free format)




  F12=Cancel    F23=Select user prompt
```

Figure 157. Select Prompt Display for AS/400 Member Types

Figure 158 shows an example of the Select Prompt display for System/36 member types.

```
                              Select Prompt

  Type choice, press Enter.

    Prompt type . . . . . . . . . . . .  __        Values listed below

      RPG II:        H,F,G,U,E,L,T,I,J (I cont),IA,C,O,P (O cont),OA,K
      COBOL:         CO,C*
      SORT:          SH,SR,SC,SF
      SFGR:          FS,FH,FD,FC (FD cont),DH (Doc-H spec)
      Other:         AS (Assembler),AU (Autoresponse),CC (Comment),
                     FF (Free Format),FO (FORTRAN),MS (Message),
                     MH (Message header),DP (Pass-through)




  F12=Cancel    F23=Select user prompt
```

Figure 158. Select Prompt Display for System/36 Member Types

Figure 159 on page 155 shows an example of the Select Prompt display for System/38 member types.

```
                          Select Prompt

Type choice, press Enter.

  Prompt type . . . . . . . . . . .  __        Values listed below

    RPG III:        H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,C,O,
                    P (O cont), * (Comment)
    COBOL:          CB,C*
    REFORMAT:       RH,RR,RF
    DDS:            LF (Logical file),PF (Physical file),
                    BC (BISYNC and Communication file),
                    DP (Display and Printer file),
                    A* (Comment)
    Other:          NC (No syntax checking),** (Free format)




  F12=Cancel   F23=Select user prompt
```
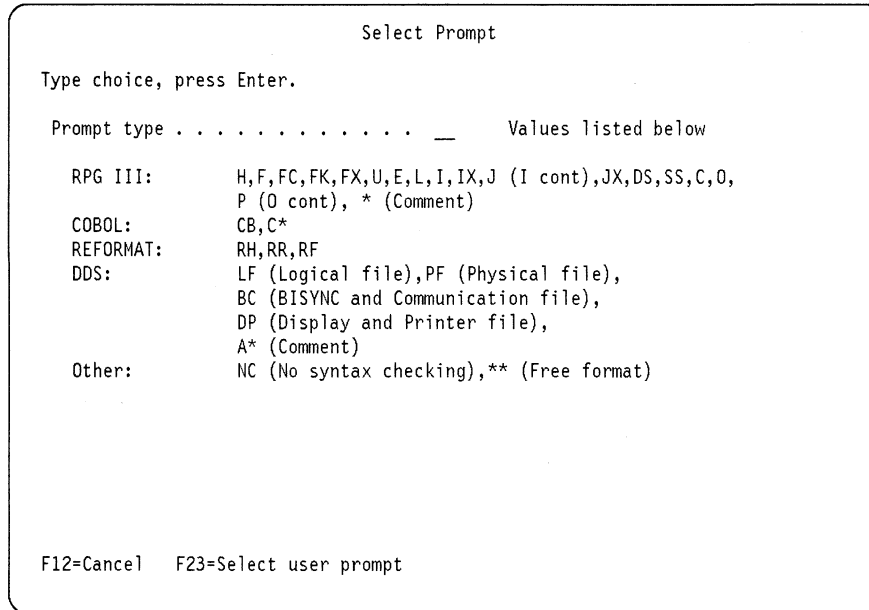
Figure 159. Select Prompt Display for System/38 Member Types

The Select Prompt display has only one field:

> *Prompt type.* Specify a code for an existing prompt type. You can specify a
> code for an IBM-supplied prompt or for a prompt you have defined. If the
> code has only one character, type it in the first or second position of the
> field. If the code corresponds to both an IBM prompt and a prompt you
> defined, SEU shows the prompt you defined. The codes listed depend on
> whether you are using a System/36, System/38, or AS/400 member type.

Canceling a Prompt

If you use the IP, IP*ff*, or IP? line commands to insert new records with a prompt,
SEU shows you a prompt to insert a record each time you press Enter. SEU
continues to do so until you do one of the following:

- Press F5 = Refresh or F12 = Cancel.

- Enter a line command or press a positional function key (Enter, Page Up,
  Page Down, F19, or F20) that moves the record in the prompt off the display.
  If the record is moved beneath the prompt, the prompt is removed but the
  record appears on the next display.

- Press F11 = Previous record to place the previous record in a prompt when
  you are at the beginning of the member.

- Request an insert with a prompt, and then do not change any fields in the
  prompt. The prompt is removed and the insert record is deleted when you
  press Enter.

- Start a split session.

If you use the P, P*ff*, or P? line commands to change existing records with a prompt, SEU places the record in a prompt each time you press Enter. SEU continues to do so until you do one of the following:

- Press F5 = Refresh or F12 = Cancel.

- Enter a line command or press a positional function key (Enter, Page Up, Page Down, F19, or F20) that moves the record in the prompt off the display. If the record is moved beneath the prompt, the prompt is removed but the record appears with the next display.

- Press Enter to place the next record in a prompt when you are at the end of the member.

- Press F11 = Previous record to place the previous record in a prompt when you are at the beginning of the member.

- Request a prompt, and then do not change any fields in the prompt. The prompt is removed and the insert record is deleted when you press Enter.

- Start a split session.

SEU puts the next record in a prompt in all situations except those mentioned above, and except when:

- You press F11 = Previous record
- You press F23 = Select prompt
- A changed record in the prompt contains a syntax error.

Note: If you have any data entered in a prompt and you press F5 = Refresh, the data is deleted before the refresh command is run and the insert or change prompt function is canceled. In all other situations, the data is put into the member before the insert or change prompt function is canceled.

Using Format Lines

Format lines are specialized scale lines that appear immediately above any lines on the Edit display. You can use format lines to find the start and end points of fields in column-oriented language statements.

SEU supports a format line for each high-level-language prompt supported. Format lines for the AS/400 source languages help you enter new source members and change existing source members.

On the Edit display, line 3 is an automatic format line that is always shown. The format line that appears is based on the source type of the member you are editing. You can also insert a format line above any record in the member, as shown in Figure 160 on page 157.

To remove a format line, press F5 = Refresh or type a D (Delete) line command in the sequence number area of the format line.

```
 Columns . . . :    1  71              Edit                  QRPGSRC/EDIT
 SEU==> _____       POSTOP
 FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
        *************** Beginning of data ***********************************
 0002.00     C          '  '    POST          DSPSTT
 0003.00     C          'B18'   POST          DSPSTT
 0004.00     C          'B12'   POST          DSPSTT
 0005.00     C                  RETRN
 FMT C  .....CLON01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEqComments++++
 0006.00     C                  EXFMTEVOKE
 0007.00     C                  EXFMTOUTREC
 0008.00     C                  EXFMTEVOKE
        ****************** End of data ***************************************




 F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find       F17=Repeat change          F24=More keys
```

Figure 160. Edit Display with Format Line

Selecting a Format Line

You can select which format line SEU uses on the display by using the Select
Format display. One of three Select Format displays appears, depending on
whether you are editing a System/36, System/38, or an AS/400 member type.

To access a Select Format display, request a format line with the IF? or F? line
command, as shown in Figure 161.
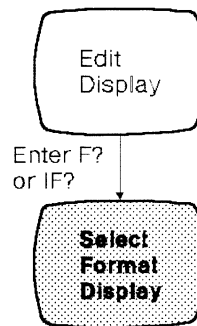
QSU3022

Figure 161. Accessing the Select Format Display

Using the Select Format Display

Figure 162 on page 158 shows an example of the Select Format display for
AS/400 member types.

```
                        Select Format

Type choice, press Enter.

  Format type . . . . . . . . . . .  __       Values listed below

    RPG/400:        H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,SV,C,O,
                    OD,P (O cont),N, * (Comment)
    COBOL:          CB,C*
    REFORMAT/SORT:  RH,RR,RF,RC
    DDS:            LF (Logical file),PF (Physical file),
                    BC (Interactive Communication Feature file),
                    DP (Display and Printer file),
                    A* (Comment)
    MNU:            MS,MH,MD,MC (MD cont),CC (Comment)
    FORTRAN:        FT,F*
    Other:          NC (No syntax checking),** (Free format)




  F12=Cancel
```

Figure 162. Select Format Display for AS/400 Member Types

Figure 163 shows an example of the Select Format display for System/36 member types.

```
                        Select Format

Type choice, press Enter.

  Format type . . . . . . . . . . .  __       Values listed below

    RPG II:         H,F,G,U,E,L,T,I,J (I cont),IA,C,O,P (O cont),OA,K
    COBOL:          CO,C*
    SORT:           SH,SR,SC,SF
    SFGR:           FS,FH,FD,FC (FD cont),DH (Doc-H spec)
    Other:          AS (Assembler),AU (Autoresponse),CC (Comment),
                    FF (Free Format),FO (FORTRAN),MS (Message),
                    MH (Message header),DP (Pass-through)








  F12=Cancel
```

Figure 163. Select Format Display for System/36 Member Types

Figure 164 on page 159 shows an example of the Select Format display for System/38 member types.

```
                          Select Format

Type choice, press Enter.

  Format type . . . . . . . . . . .  __        Values listed below

      RPG III:        H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,C,O,
                      P (O cont),* (Comment)
      COBOL:          CB,C*
      REFORMAT:       RH,RR,RF
      DDS:            LF (Logical file),PF (Physical file),
                      BC (BISYNC and Communication file),
                      DP (Display and Printer file),
                      A* (Comment)
      Other:          NC (No syntax checking),** (Free format)




  F12=Cancel
```
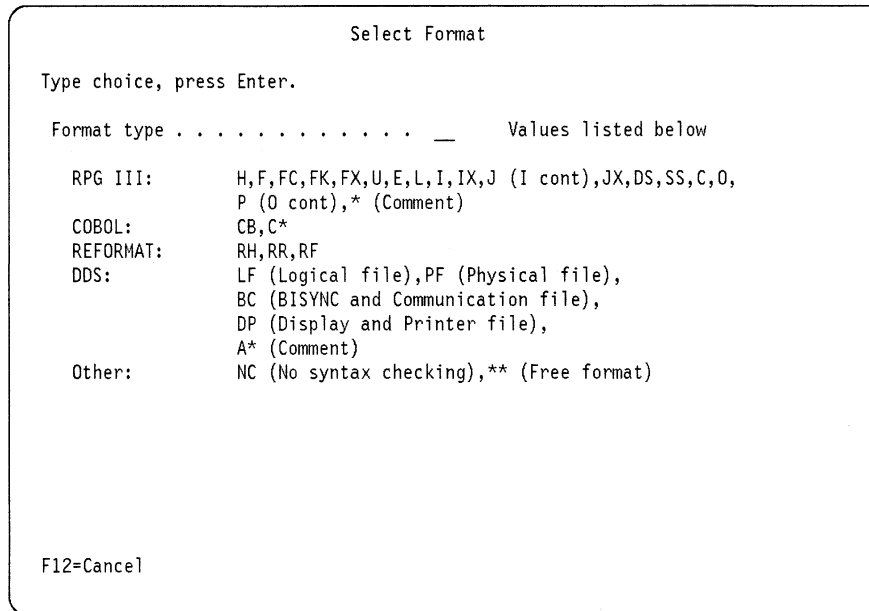
Figure 164. Select Format Display for System/38 Member Types

The Select Format display has only one field:

> *Format type.* Specify the code for any of the IBM-supplied format lines. If the format code is only one character, type it in the first or second position of the field. The types listed depend on whether you are editing a System/36, System/38, or an AS/400 member type.

Example Coding for a Format Line and Prompt

Figure 165 on page 160 shows an example of how the coding form for a source language specification corresponds to:

- The format line SEU uses when you use the F, F*ff*, or IF*ff* line command
- The prompt SEU uses when you use the P, P*ff*, or IP*ff* line command.
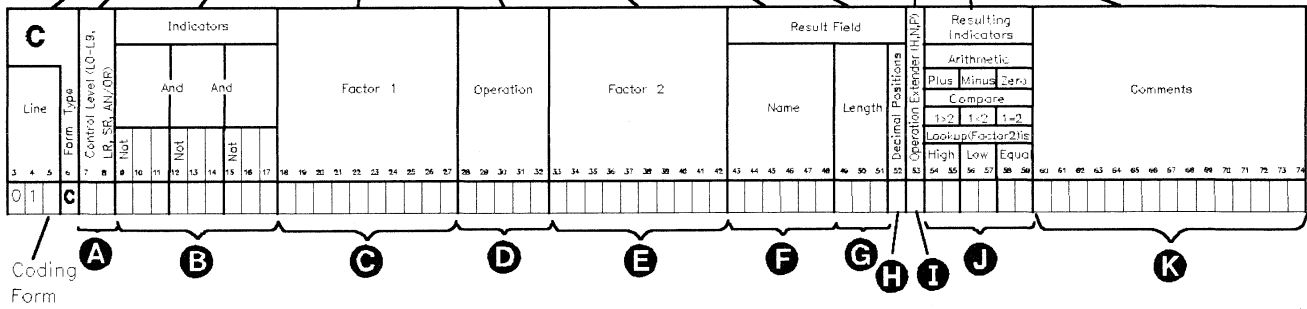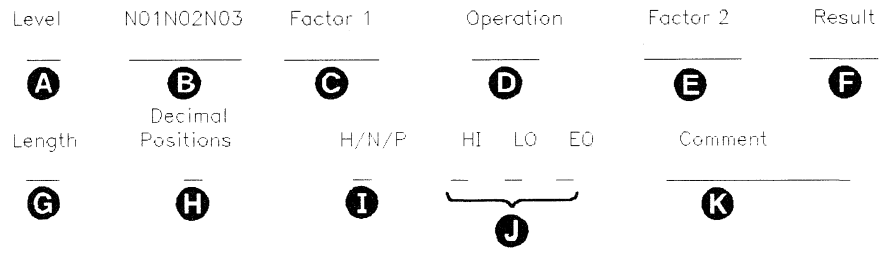
Figure 165. Coding Form with Corresponding Format Line and Prompt

QSU3023

Chapter 11. Creating User-Defined Prompts

In addition to the IBM-supplied prompts, you can define your own prompts for use with SEU. This chapter discusses the displays you use to define the prompts and provides an example of creating a user-defined prompt.

Creating a Prompt

Follow these steps to create a prompt:

1. From the Edit display, type the P? or IP? line command, or press F23 = Select prompt to access the Select Prompt display.

2. From the Select Prompt display, press F23 = Select user prompt to access the Select User-Defined Prompt display. Specify a code for the new prompt you are creating by using the Select User-Defined Prompt display. For more information, see "Selecting a Prompt Code" on page 162.

3. Define the new prompt fields by using the Work with User-Defined Prompt Definition display. For more information, see "Defining or Changing a Prompt" on page 163.

4. Define the field description of a prompt by using the User Prompt Field Description display. For more information, see "Defining or Changing Field Descriptions" on page 164. The field description contains information about the title SEU displays above the prompt.

5. Define the field attributes of a prompt by using the User Prompt Field Attribute display. For more information, see "Defining or Changing Field Attributes" on page 165. A field attribute contains information about the input field you are creating for the prompt.

Figure 166 on page 162 shows the relationship between the displays you use to define a prompt.
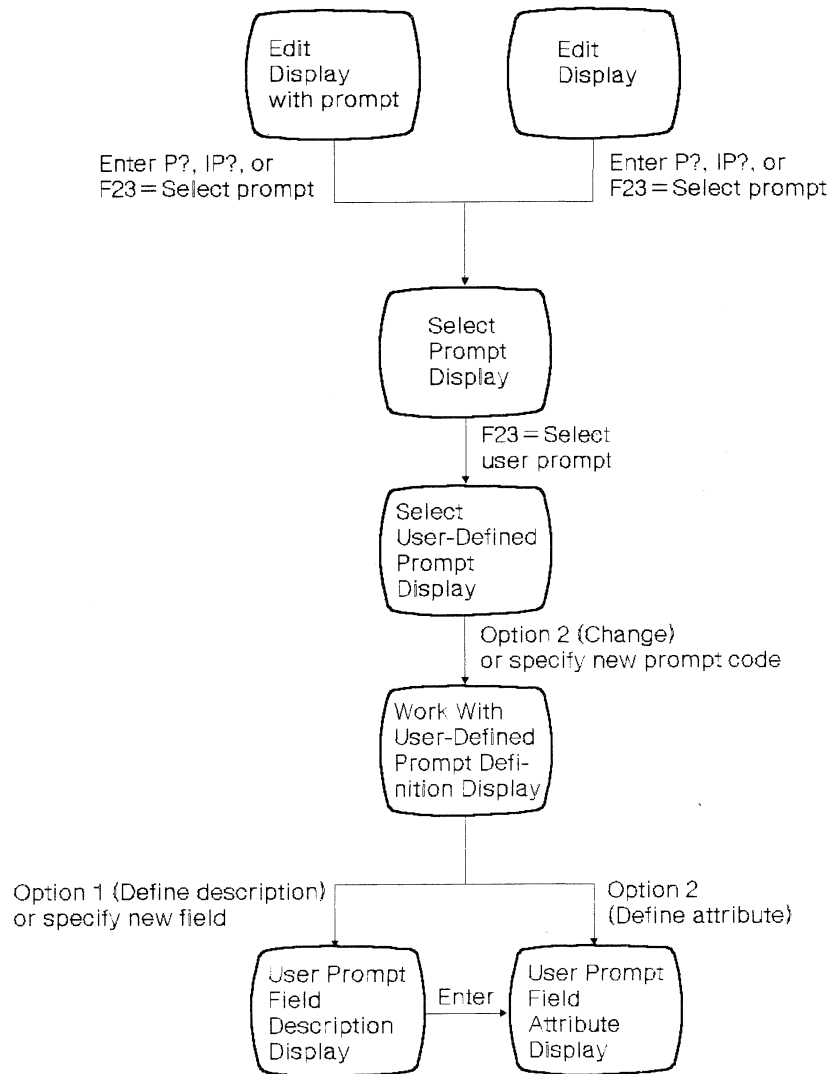
Figure 166. Using the Displays to Define a Prompt

Selecting a Prompt Code

Each prompt you define is identified by a 1- or 2-character (alphabetic only) prompt code. Select a prompt code to define on the Select User-Defined Prompt display. To access this display, press F23 = Select user prompt on the Select Prompt display.

Using the Select User-Defined Prompt Display

Figure 167 on page 163 shows an example of the Select User-Defined Prompt display.

```
                           Select User-Defined Prompt

Type information, press Enter.
   Position to . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .    _
   Create a prompt . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .    _

Type options, press Enter.
   1=Select      2=Change       4=Delete

Opt   Code    Prompt Text
  _    AD      User-Defined Prompt for creating Address Records
  _    AB      Test Prompt








F3=Exit   F5=Refresh   F12=Cancel
```
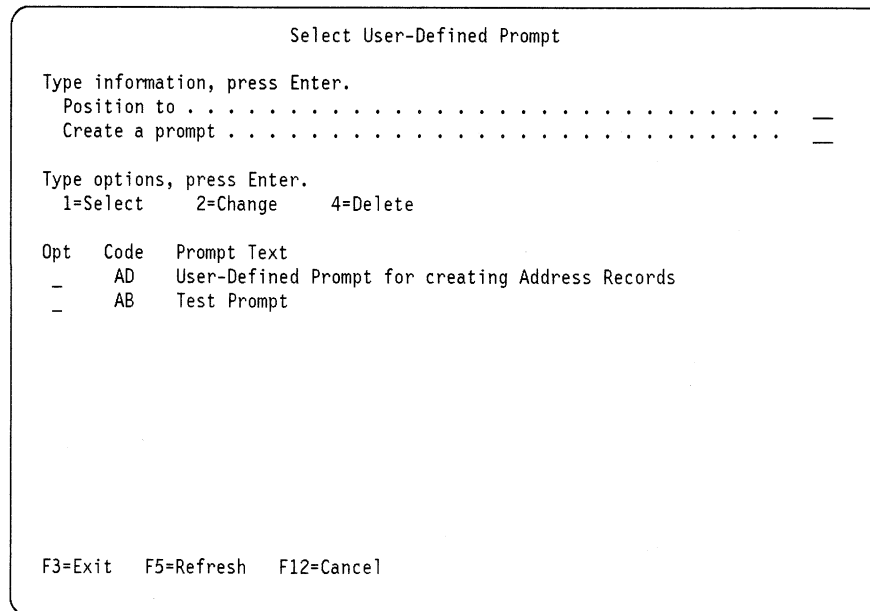
Figure 167. Select User-Defined Prompt Display

The fields on the Select User-Defined Prompt display are:

> *Position to.* Specify the prompt code to be shown as the first code on the
> display. The list is empty until you define a prompt.
>
> *Create a prompt.* Specify a 1- or 2-character prompt code for the prompt you
> are creating. Use only alphabetic characters. If you specify a code, SEU
> calls the Work with User-Defined Prompt Definition display.
>
> *Opt.* Type 1 (Select a code for prompting) to select a prompt from the list for
> an edit session. Type 2 (Change) to change a prompt using the Work with
> User-Defined Prompt Definition display. Type 4 (Delete) to delete a prompt.
>
> You can select only one code at a time for prompting on this display.

Defining or Changing a Prompt

You can define a new prompt or change an existing prompt on the Work with
User-Defined Prompt Definition display. To access this display, specify option 2
(Change) for the *Opt* field of an existing user-defined prompt or specify a new
code for the *Create a prompt* field on the Select User-Defined Prompt display.

Using the Work with User-Defined Prompt Definition Display

Figure 168 on page 164 shows an example of the Work with User-Defined
Prompt Definition display.

```
┌─────────────────────────────────────────────────────────────────────┐
│                  Work with User-Defined Prompt Definition             │
│                                                                       │
│   Prompt code  . . . . . . . . . . . :   AA                           │
│                                                                       │
│   Type information, press Enter.                                      │
│     Position to  . . . . . . . . . .   _____    Name             │
│     New field  . . . . . . . . . . .   _____    Name, SEQUENCE   │
│     Prompt text  . . . .    User-Defined Prompt for creating Address Records │
│                                                                       │
│   Type options, press Enter.                                          │
│     1=Define description           2=Define attribute        4=Delete │
│   Opt   Field Name    Field Text                                      │
│     _   CUSTADDRES    Cust. Address - 20 chars.                       │
│     _   CUSTCITY      Cust. City - 20 chars.                          │
│     _   CUSTNAME      Cust. Name - 24 chars.                          │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                 Bottom│
│   F3=Exit    F5=Refresh    F10=Save                                   │
│   F11=Display prompt       F12=Cancel                                 │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```

Figure 168. Work with User-Defined Prompt Definition Display

The fields on the Work with User-Defined Prompt Definition display are:

Prompt code. This field contains the prompt code specified on the Select User-Defined Prompt display.

Position to. Specify the field name to be shown as the first name of the list on the display. SEU positions the display to the selected field name.

New field. Specify the name for a field in the prompt. Specify SEQUENCE to create a SEQUENCE NUMBER field with predefined attributes. You can position this field and create a description for it, but you cannot define the field itself.

Prompt text. Specify up to 50 characters to describe the prompt code. This text is shown in the Select User-Defined Prompt display.

Opt. Type 1 (Define description) to get to the User Prompt Field Description display, which includes information on output fields. Type 2 (Define attribute) to get to the User Prompt Field Attribute display, which includes information on input fields. Type 4 (Delete) to delete a field from the prompt.

Field Name and *Field Text*. These fields contain the names and descriptions of the fields for the prompt. The fields are listed in the order of appearance on the display. For example, if field A appears on line 20 of the display and field B appears on line 21 of the display, A is listed first.

Defining or Changing Field Descriptions

A field description is the title SEU shows above an input field in the prompt. You define the field description for a prompt on the User Prompt Field Description display. To access this display, specify option 1 (Define description) or specify a new field on the Work with User-Defined Prompt Definition display.

Using the User Prompt Field Description Display

Figure 169 shows an example of the User Prompt Field Description display.

```
                          User Prompt Field Description

  Prompt code  . . . . . . :   AD
  Prompt text  . . . . . . :   User-Defined Prompt for creating Address Records
  Field name . . . . . . . :   CUSTPOST

  Type choices, press Enter.

      Field text . . . . . . . . . . . .   Cust._Postal_Code_-_7_chars.___
      Line on display  . . . . . . . . .   19        6 - 20
      Column on display  . . . . . . . .   01        1 - 80
      Highlight  . . . . . . . . . . . .   N         Y=Yes, N=No
      Reverse image  . . . . . . . . . .   N         Y=Yes, N=No
      Underline  . . . . . . . . . . . .   N         Y=Yes, N=No




  F3=Exit    F5=Refresh    F10=Save
  F11=Display prompt    F12=Cancel
```

Figure 169. User Prompt Field Description Display

The fields on the User Prompt Field Description display are:

Prompt code. This field contains the prompt code you previously entered.

Prompt text. This field contains the prompt text you previously entered.

Field name. This field contains the name of the field you are defining.

Field text. Specify up to 30 characters to use as a field heading.

Line on display. Specify the number of the line on the display that will contain the field heading.

Column on display. Specify the starting column on the display for the field heading.

Highlight. Type Y (Yes) to highlight the field heading.

Reverse image. Type Y (Yes) to show the field heading in reverse image.

Underline. Type Y (Yes) to underline the field heading.

Defining or Changing Field Attributes

A field attribute describes the input field you are creating for the prompt. You define the field attributes for a prompt on the User Prompt Field Attribute display. To access this display, specify option 2 (Define attribute) on the Work with User-Defined Prompt Definition display. You can also access this display by pressing Enter after completing the User Prompt Field Description display for a new prompt.

Using the User Prompt Field Attribute Display

Figure 170 shows an example of the User Prompt Field Attribute display.

```
                       User Prompt Field Attribute

Prompt code  . . . . . . :   AD
Prompt text  . . . . . . :   User-Defined Prompt for creating Address Records
Field name . . . . . . . :   CUSTPOST

Type choices, press Enter.

  Line on display . . . . . . . . .   20        6 - 20
  Column on display . . . . . . . .   01        1 - 80
  Data type . . . . . . . . . . . .   2         1=Alphameric, 2=Alphabetic,
                                                3=Numeric,    4=Digits

  Length . . . . . . . . . . . . . .  007       0 - 228
  Column in the source record  . . .  065       1 - 228
  Highlight  . . . . . . . . . . . .  Y         Y=Yes, N=No
  Reverse image  . . . . . . . . . .  N         Y=Yes, N=No
  Column separator . . . . . . . . .  N         Y=Yes, N=No
  Underline  . . . . . . . . . . . .  Y         Y=Yes, N=No


F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 170. User Prompt Field Attribute Display

The fields on the User Prompt Field Attribute display are:

Prompt code. This field contains the prompt code you previously entered.

Prompt text. This field contains the prompt description you previously entered.

Field name. This field contains the field name you previously entered.

Line on display. Specify the number of the line on the display that contains the input field.

Column on display. Specify the starting column on the display for the input field.

Data type. Specify the type of data you enter in the input field you are creating. Type 1 (Alphameric) to allow both alphabetic and numeric characters. Type 2 (Alphabetic) to allow only alphabetic characters. Type 3 (Numeric) to allow only numeric characters (including the plus, minus, period, slash, and asterisk characters). Type 4 (Digits) to allow only digits (0 through 9). Type 5 (Open) to allow DBCS data (this option only appears on DBCS terminals).

Note: The DBCS-graphic data type (G) is not supported.

Length. Specify the length for the input field.

Column in the source record. Specify the first column of the record that corresponds to this field.

Highlight. Type Y (Yes) to highlight the input field.

Reverse image. Type Y (Yes) to show the input field in reverse image.

Column separator. Type Y (Yes) to show column separators for the input field.

Underline. Type Y (Yes) to underline the input field.

Displaying a User-Defined Prompt

You can show the prompt while you are defining it by pressing F11=Display prompt from any of the user prompt displays. Figure 171 shows an example of the display that appears.

```
 Columns . . . :    1 71          Display Prompt            LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
         ************** Beginning of data *************************************
 0001.00 This is a sample edit line.
 0002.00 This is a sample edit line.
 0003.00 This is a sample edit line.
 0004.00 This is a sample edit line.
 0005.00 This is a sample edit line.
 Cust. Name - 24 chars.
 _____
 Cust. Address - 20 chars.
 _____
 Cust. City - 20 chars.
 _____
 Cust. Postal Code - 7 chars.
 _____


 F3=Exit   F4=Prompt   F5=Refresh        F11=Previous record
 F12=Cancel            F23=Select prompt  F24=More keys
 Press any function key to return to the User-Defined Prompt Definition display.
```

Figure 171. Display Prompt Display

You cannot type data on the Display Prompt display. Press any positional function key (Enter, Page Up, Page Down, F19, or F20) to return the user prompt display you were working on when you pressed F11=Display prompt.

Using a User-Defined Prompt

After a user-defined prompt has been created, you request it by:

- Specifying the P*ff* or IP*ff* line command on the Edit display. For example, to insert a new record using a user-defined prompt called AD, type IPAD in the sequence number area of the Edit display, as shown in Figure 172.

```
 Columns . . . :    1 71          Edit                     LIBRNAME01/FILENAME01
 SEU==> _____ MEMBNAME01
 FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
         ************** Beginning of data *************************************
 IPAD.00
```

Figure 172. Selecting a User-Defined Prompt with a Line Command

See "Prompt and Insert-with-Prompt Commands" on page 80 for more information on using prompt line commands.

- Specifying the user-defined prompt code on the Select Prompt display. For example, to select the user-defined prompt AD using the Select Prompt display, type AD in the *Prompt type* field, as shown in Figure 173 on page 168.

```
                              Select Prompt

Type choice, press Enter.

  Prompt type . . . . . . . . . . . AD      Values listed below

    RPG/400:        H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,C,O,
                    OD,P (O cont),N,* (Comment)
```

Figure 173. Selecting a User-Defined Prompt from the Select Prompt Display

See "Using the Select Prompt Display" on page 154 for more information on how to use the Select Prompt display.

- Selecting the prompt from the Select User-Defined Prompt display. For example, to select the user-defined prompt AD, type 1 next to this prompt on the Select User-Defined Prompt display, as shown in Figure 174.

```
                        Select User-Defined Prompt

Type information, press Enter.
  Position to . . . . . . . . . . . . . . . . . . . . . . . . . . . .   __
  Create a prompt . . . . . . . . . . . . . . . . . . . . . . . . . .   __

Type options, press Enter.
  1=Select    2=Change      4=Delete

Opt   Code   Prompt Text
 1     AD    User-Defined Prompt for creating Address Records
 _     AB    Test Prompt
```

Figure 174. Selecting a User-Defined Prompt from the Select User-Defined Prompt Display

See "Selecting a Prompt Code" on page 162 for more information on how to use the Select User-Defined Prompt display.

Example of Creating a User-Defined Prompt

The following example shows how to create a user-defined prompt for a database that consists of customer names and addresses.

Selecting a Prompt Code to Define

1. To request a user-defined prompt, type the P? or IP? line command, or press F23 = Select prompt on the Edit display. You see the Select Prompt display shown in Figure 175 on page 169.

```
                        Select Prompt

Type choice, press Enter.

  Prompt type . . . . . . . . . . . .   _      Values listed below

    RPG/400:        H,F,FC,FK,FX,U,E,L,I,IX,J (I cont),JX,DS,SS,SV,C,O,
                    OD,P (O cont),N,* (Comment)
    COBOL:          CB,C*
    REFORMAT/SORT:  RH,RR,RF,RC
    DDS:            LF (Logical file),PF (Physical file),
                    BC (Interactive Communications Feature file),
                    DP (Display and Printer file),
                    A* (Comment)
    MNU:            MS,MH,MD,MC (MD cont),CC (Comment)
    FORTRAN:        FT,F*
    Other:          NC (No syntax checking),** (Free format)




  F12=Cancel   F23=Select user prompt
```

Figure 175. Select Prompt Display

Note: The display shown in Figure 175 appears for AS/400 member types only. See "Using the Select Prompt Display" on page 154 for examples of Select Prompt displays for System/36 and System/38 member types. The F23 = Select user prompt key is the same for member types for all systems.

2. Press F23. The Select User-Defined Prompt display appears as shown in Figure 176.

```
                    Select User-Defined Prompt

Type information, press Enter.
  Position to . . . . . . . . . . . . . . . . . . . . . . . . . . . . .   _
  Create a prompt . . . . . . . . . . . . . . . . . . . . . . . . . . .   _

Type options, press Enter.
  1=Select     2=Change     4=Delete

Opt   Code   Prompt Text

  (No User-Defined Prompt)






                                                                  Bottom
  F3=Exit   F5=Refresh   F12=Cancel
```
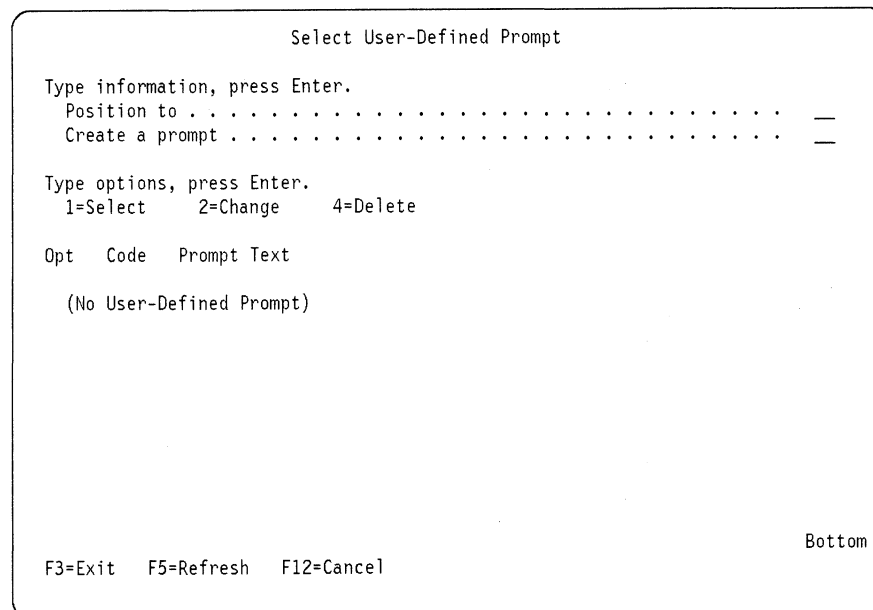
Figure 176. Select User-Defined Prompt Display

3. Specify the prompt code you want to define, which for this example is CD (customer data). Type the code in the *Create a prompt* field, as shown in Figure 177 on page 170.

```
┌─────────────────────────────────────────────────────────────┐
│                  Select User-Defined Prompt                  │
│                                                              │
│  Type information, press Enter.                              │
│    Position to . . . . . . . . . . . . . . . . . . . . . . . _    │
│    Create a prompt . . . . . . . . . . . . . . . . . . . . . CD   │
│                                                              │
│  Type options, press Enter.                                  │
│    1=Select     2=Change     4=Delete                        │
│                                                              │
│  Opt    Code    Prompt Text                                  │
│                                                              │
│     (No User-Defined Prompt)                                 │
│                                                              │
│                                                              │
│                                                              │
│                                                              │
│                                                              │
│                                                              │
│                                                   Bottom     │
│    F3=Exit    F5=Refresh    F12=Cancel                       │
│                                                              │
└─────────────────────────────────────────────────────────────┘
```

Figure 177. Specifying the Prompt Code

4. Press Enter. The Work with User-Defined Prompt Definition display appears as shown in Figure 178.

```
┌─────────────────────────────────────────────────────────────┐
│              Work with User-Defined Prompt Definition        │
│                                                              │
│  Prompt code . . . . . . . . . . . :    CD                   │
│                                                              │
│  Type information, press Enter.                              │
│    Position to . . . . . . . . . . .    _____    Name     │
│    New field . . . . . . . . . . . .    _____    Name, SEQUENCE │
│    Prompt text . . . .    _____    │
│                                                              │
│  Type options, press Enter.                                  │
│    1=Define description         2=Define attribute      4=Delete │
│  Opt    Field Name    Field Text                             │
│                                                              │
│     (No Prompt Field)                                        │
│                                                              │
│                                                              │
│                                                              │
│                                                              │
│  F3=Exit    F5=Refresh    F10=Save                           │
│  F11=Display prompt       F12=Cancel                         │
│                                                              │
└─────────────────────────────────────────────────────────────┘
```

Figure 178. Work with User-Defined Prompt Definition Display

5. Because this is a new prompt, specify text for the CD prompt code you just created. Type the text in the *Prompt text* field, as shown in Figure 179 on page 171.

   Note: If you press Enter without typing information in any of the fields on the Work with User-Defined Prompt Definition display, SEU returns to the Select User-Defined Prompt display.

```
              Work with User-Defined Prompt Definition

Prompt code  . . . . . . . . . . . :   CD

Type information, press Enter.
   Position to  . . . . . . . . . . .    _____        Name
   New field  . . . . . . . . . . . .    _____        Name, SEQUENCE
   Prompt text  . . . .    Customer Information_____

Type options, press Enter.
   1=Define description        2=Define attribute        4=Delete
Opt   Field Name    Field Text

   (No Prompt Field)






F3=Exit   F5=Refresh    F10=Save
F11=Display prompt       F12=Cancel
```

Figure 179. Describing Prompt Code CD

Creating a Field for the Prompt (CUSTNAME)

1. To create a field for customer names, type CUSTNAME in the *New field* field, as shown in Figure 180.

```
              Work with User-Defined Prompt Definition

Prompt code  . . . . . . . . . . . :   CD

Type information, press Enter.
   Position to  . . . . . . . . . . .    _____        Name
   New field  . . . . . . . . . . . .   CUSTNAME__        Name, SEQUENCE
   Prompt text  . . . .    Customer Information_____

Type options, press Enter.
   1=Define description        2=Define attribute        4=Delete
Opt   Field Name    Field Text

   (No Prompt Field)






F3=Exit   F5=Refresh    F10=Save
F11=Display prompt       F12=Cancel
```

Figure 180. Creating the CUSTNAME Field

2. Press Enter. The User Prompt Field Description display appears as shown in Figure 181 on page 172.

```
                   User Prompt Field Description

Prompt code  . . . . . . :    CD
Prompt text  . . . . . . :    Customer Information
Field name . . . . . . . :    CUSTNAME

Type choices, press Enter.

    Field text . . . . . . . . . . . .    _____
    Line on display  . . . . . . . . .    06        6 - 20
    Column on display  . . . . . . . .    01        1 - 80
    Highlight  . . . . . . . . . . . .    N         Y=Yes, N=No
    Reverse image  . . . . . . . . . .    N         Y=Yes, N=No
    Underline  . . . . . . . . . . . .    N         Y=Yes, N=No




F3=Exit    F5=Refresh     F10=Save
F11=Display prompt         F12=Cancel
```

Figure 181. User Prompt Field Description Display

3. Specify the field heading for CUSTNAME and the position on the display as line 13 and column 1, as shown in Figure 182. When SEU shows the prompt, the field CUSTNAME appears on line 13, starting in column 1.

```
                   User Prompt Field Description

Prompt code  . . . . . . :    CD
Prompt text  . . . . . . :    Customer Information
Field name : . . . . . . :    CUSTNAME

Type choices, press Enter.

    Field text . . . . . . . . . . . .    Cust. Name - 24 chars._____
    Line on display  . . . . . . . . .    13        6 - 20
    Column on display  . . . . . . . .    1         1 - 80
    Highlight  . . . . . . . . . . . .    N         Y=Yes, N=No
    Reverse image  . . . . . . . . . .    N         Y=Yes, N=No
    Underline  . . . . . . . . . . . .    N         Y=Yes, N=No




F3=Exit    F5=Refresh     F10=Save
F11=Display prompt         F12=Cancel
```

Figure 182. Specifying the Field Description for CUSTNAME

4. Press Enter. The User Prompt Field Attribute display appears, as shown in Figure 183 on page 173.

```
                    User Prompt Field Attribute

Prompt code . . . . . . :   CD
Prompt text . . . . . . :   Customer Information
Field name . . . . . . . :   CUSTNAME

Type choices, press Enter.

    Line on display . . . . . . . . .   06      6 - 20
    Column on display . . . . . . . .   01      1 - 80
    Data type . . . . . . . . . . . .   1       1=Alphameric, 2=Alphabetic,
                                                3=Numeric,    4=Digits

    Length . . . . . . . . . . . . . .   000     0 - 228
    Column in the source record  . . .   001     1 - 228
    Highlight . . . . . . . . . . . .   N       Y=Yes, N=No
    Reverse image . . . . . . . . . .   N       Y=Yes, N=No
    Column separator . . . . . . . . .   N       Y=Yes, N=No
    Underline . . . . . . . . . . . .   N       Y=Yes, N=No


F3=Exit   F5=Refresh    F10=Save
F11=Display prompt       F12=Cancel
```

Figure 183. User Prompt Field Attribute Display

5. Type the field attributes for CUSTNAME, as shown in Figure 184. With the example shown, the input field starts on line 14 in column 1, is 24 characters long, can accept alphameric characters, and is highlighted and underlined. This is the first input field for the prompt you are creating. It will appear on the Edit display, under the description you previously specified on the User Prompt Field Description display.

```
                    User Prompt Field Attribute

Prompt code . . . . . . :   CD
Prompt text . . . . . . :   Customer Information
Field name . . . . . . . :   CUSTNAME

Type choices, press Enter.

    Line on display . . . . . . . . .   14      6 - 20
    Column on display . . . . . . . .   01      1 - 80
    Data type . . . . . . . . . . . .   1       1=Alphameric, 2=Alphabetic,
                                                3=Numeric,    4=Digits

    Length . . . . . . . . . . . . . .   24_     0 - 228
    Column in the source record  . . .   001     1 - 228
    Highlight . . . . . . . . . . . .   Y       Y=Yes, N=No
    Reverse image . . . . . . . . . .   N       Y=Yes, N=No
    Column separator . . . . . . . . .   N       Y=Yes, N=No
    Underline . . . . . . . . . . . .   Y       Y=Yes, N=No


F3=Exit   F5=Refresh    F10=Save
F11=Display prompt       F12=Cancel
```

Figure 184. Specifying the Field Attributes for CUSTNAME

6. Press Enter. SEU saves the new field and returns to the Work with User-Defined Prompt Definition display, as shown in Figure 185 on page 174. You can change or delete the existing field (CUSTNAME), define another field for the prompt, or return to the Select Prompt display.

Note: If you want to return the Edit display without creating any more prompt fields, press F10=Save to save the prompt field definitions you have created so far.

```
                     Work with User-Defined Prompt Definition

 Prompt code . . . . . . . . . . . :   CD

 Type information, press Enter.
   Position to . . . . . . . . . . .   _____      Name
   New field . . . . . . . . . . . .   _____      Name, SEQUENCE
   Prompt text  . . . .    Customer Information_____

 Type options, press Enter.
   1=Define description            2=Define attribute          4=Delete
 Opt   Field Name     Field Text
 _     CUSTNAME       Cust. Name - 24 chars.




                                                                    Bottom
 F3=Exit    F5=Refresh    F10=Save
 F11=Display prompt        F12=Cancel
```

Figure 185. Prompt with CUSTNAME Field Entered

Creating Another Field for the Prompt (CUSTADDRES)

1. To create a field for the customer street address, type CUSTADDRES in the *New field* field, as shown in Figure 186.

```
                     Work with User-Defined Prompt Definition

 Prompt code . . . . . . . . . . . :   CD

 Type information, press Enter.
   Position to . . . . . . . . . . .   _____      Name
   New field . . . . . . . . . . . .   CUSTADDRES      Name, SEQUENCE
   Prompt text  . . . .    Customer Information_____

 Type options, press Enter.
   1=Define description            2=Define attribute          4=Delete
 Opt   Field Name     Field Text
 _     CUSTNAME       Cust. Name - 24 chars.




                                                                    Bottom
 F3=Exit    F5=Refresh    F10=Save
 F11=Display prompt        F12=Cancel
```

Figure 186. Creating the CUSTADDRES Field

2. Press Enter. SEU shows the User Prompt Field Description display. Specify the field description for CUSTADDRES, as shown in Figure 187 on page 175.

```
                      User Prompt Field Description

Prompt code  . . . . . . :    CD
Prompt text  . . . . . . :    Customer Information
Field name . . . . . . . :    CUSTADDRES

Type choices, press Enter.

    Field text . . . . . . . . . . . .    Cust. Address - 20 chars._____
    Line on display  . . . . . . . . .    15      6 - 20
    Column on display  . . . . . . . .    01      1 - 80
    Highlight  . . . . . . . . . . . .    N       Y=Yes, N=No
    Reverse image  . . . . . . . . . .    N       Y=Yes, N=No
    Underline  . . . . . . . . . . . .    N       Y=Yes, N=No




F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 187. Specifying the Field Description for CUSTADDRES

3. Press Enter. SEU shows the User Prompt Field Attribute display. Specify the field attributes for CUSTADDRES, as shown in Figure 188.

```
                      User Prompt Field Attribute

Prompt code  . . . . . . :    CD
Prompt text  . . . . . . :    Customer Information
Field name . . . . . . . :    CUSTADDRES

Type choices, press Enter.

    Line on display  . . . . . . . . .    16      6 - 20
    Column on display  . . . . . . . .    01      1 - 80
    Data type  . . . . . . . . . . . .    1       1=Alphameric, 2=Alphabetic,
                                                  3=Numeric,    4=Digits

    Length . . . . . . . . . . . . . .    20_     0 - 228
    Column in the source record  . . .    25_     1 - 228
    Highlight  . . . . . . . . . . . .    Y       Y=Yes, N=No
    Reverse image  . . . . . . . . . .    N       Y=Yes, N=No
    Column separator . . . . . . . . .    N       Y=Yes, N=No
    Underline  . . . . . . . . . . . .    Y       Y=Yes, N=No


F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 188. Specifying the Field Attributes for CUSTADDRES

4. Press Enter. SEU saves the new field and returns the Work with User-Defined Prompt Definition display, shown in Figure 189 on page 176.

```
                    Work with User-Defined Prompt Definition

Prompt code  . . . . . . . . . . :    CD

Type information, press Enter.
  Position to  . . . . . . . . . . .    _____         Name
  New field  . . . . . . . . . . .      _____         Name, SEQUENCE
  Prompt text  . . . .    Customer Information_____


Type options, press Enter.
  1=Define description            2=Define attribute         4=Delete
Opt   Field Name    Field Text
  _     CUSTADDRES    Cust. Address - 20 chars.
  _     CUSTNAME      Cust. Name - 24 chars.




                                                                Bottom

F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 189. Prompt with CUSTADDRES Field Entered

Creating Another Field for the Prompt (CUSTCITY)

1. To create a field for the customer city, type CUSTCITY in the *New field* field, as shown in Figure 190.

```
                    Work with User-Defined Prompt Definition

Prompt code  . . . . . . . . . . :    CD

Type information, press Enter.
  Position to  . . . . . . . . . . .    _____         Name
  New field  . . . . . . . . . . .      CUSTCITY__         Name, SEQUENCE
  Prompt text  . . . .    Customer Information_____


Type options, press Enter.
  1=Define description            2=Define attribute         4=Delete
Opt   Field Name    Field Text
  _     CUSTADDRES    Cust. Address - 20 chars.
  _     CUSTNAME      Cust. Name - 24 chars.




                                                                Bottom
F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 190. Creating the CUSTCITY Field

2. Press Enter. SEU shows the User Prompt Field Description display. Specify the field description for CUSTCITY, as shown in Figure 191 on page 177.

```
                    User Prompt Field Description

Prompt code . . . . . . :    CD
Prompt text . . . . . . :    Customer Information
Field name . . . . . . . :   CUSTCITY


Type choices, press Enter.

   Field text . . . . . . . . . . . .    Cust. City, Country - 20 chars
   Line on display . . . . . . . . .     17      6 - 20
   Column on display . . . . . . . .     01      1 - 80
   Highlight . . . . . . . . . . . .     N       Y=Yes, N=No
   Reverse image . . . . . . . . . .     N       Y=Yes, N=No
   Underline . . . . . . . . . . . .     N       Y=Yes, N=No






F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 191. Specifying the Field Description for CUSTCITY

3. Press Enter. SEU shows the User Prompt Field Attribute display. Specify the
   field attributes for CUSTCITY, as shown in Figure 192.

```
                    User Prompt Field Attribute

Prompt code . . . . . . :    CD
Prompt text . . . . . . :    Customer Information
Field name . . . . . . . :   CUSTCITY

Type choices, press Enter.

   Line on display . . . . . . . . .     18      6 - 20
   Column on display . . . . . . . .     01      1 - 80
   Data type . . . . . . . . . . . .     1       1=Alphameric, 2=Alphabetic,
                                                 3=Numeric,    4=Digits

   Length . . . . . . . . . . . . . .    20_     0 - 228
   Column in the source record . . .     45_     1 - 228
   Highlight . . . . . . . . . . . .     Y       Y=Yes, N=No
   Reverse image . . . . . . . . . .     N       Y=Yes, N=No
   Column separator . . . . . . . . .    N       Y=Yes, N=No
   Underline . . . . . . . . . . . .     Y       Y=Yes, N=No


F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 192. Specifying the Field Attributes for CUSTCITY

4. Press Enter. SEU saves the new field and returns to the Work with User-
   Defined Prompt Definition display, as shown in Figure 193 on page 178.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                   Work with User-Defined Prompt Definition                │
│                                                                           │
│  Prompt code . . . . . . . . . . . :   CD                                 │
│                                                                           │
│  Type information, press Enter.                                           │
│    Position to  . . . . . . . . . .     _____        Name             │
│    New field  . . . . . . . . . . .     _____        Name, SEQUENCE   │
│    Prompt text  . . . .    Customer Information_____  │
│                                                                           │
│  Type options, press Enter.                                               │
│    1=Define description         2=Define attribute         4=Delete       │
│  Opt   Field Name     Field Text                                          │
│   _    CUSTADDRES     Cust. Address - 20 chars.                           │
│   _    CUSTCITY       Cust. City, Country - 20 chars.                     │
│   _    CUSTNAME       Cust. Name - 24 chars.                              │
│                                                                           │
│                                                                           │
│                                                                           │
│                                                                   Bottom  │
│                                                                           │
│  F3=Exit   F5=Refresh    F10=Save                                         │
│  F11=Display prompt      F12=Cancel                                       │
└─────────────────────────────────────────────────────────────────────────┘
```

Figure 193. Prompt with CUSTCITY Field Entered

Creating Another Field for the Prompt (CUSTPOSTAL)

1. To create a field for the customer postal code, type CUSTPOSTAL in the *New field* field, as shown in Figure 194.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                   Work with User-Defined Prompt Definition                │
│                                                                           │
│  Prompt code . . . . . . . . . . . :   CD                                 │
│                                                                           │
│  Type information, press Enter.                                           │
│    Position to  . . . . . . . . . .     _____        Name             │
│    New field  . . . . . . . . . . .     CUSTPOSTAL       Name, SEQUENCE   │
│    Prompt text  . . . .    Customer Information_____  │
│                                                                           │
│  Type options, press Enter.                                               │
│    1=Define description         2=Define attribute         4=Delete       │
│  Opt   Field Name     Field Text                                          │
│   _    CUSTADDRES     Cust. Address - 20 chars.                           │
│   _    CUSTCITY       Cust. City, Country - 20 chars.                     │
│   _    CUSTNAME       Cust. Name - 24 chars.                              │
│                                                                           │
│                                                                           │
│                                                                   Bottom  │
│  F3=Exit   F5=Refresh    F10=Save                                         │
│  F11=Display prompt      F12=Cancel                                       │
└─────────────────────────────────────────────────────────────────────────┘
```

Figure 194. Creating the CUSTPOSTAL Field

2. Press Enter. SEU shows the User Prompt Field Description display. Specify the field descriptions for CUSTPOSTAL, as shown in Figure 195 on page 179.

```
                    User Prompt Field Description

Prompt code  . . . . . . :   CD
Prompt text  . . . . . . :   Customer Information
Field name . . . . . . . :   CUSTPOSTAL

Type choices, press Enter.

  Field text . . . . . . . . . . . .   Cust. Postal Code - 7 chars._
  Line on display  . . . . . . . . .   19      6 - 20
  Column on display  . . . . . . . .   01      1 - 80
  Highlight  . . . . . . . . . . . .   N       Y=Yes, N=No
  Reverse image  . . . . . . . . . .   N       Y=Yes, N=No
  Underline  . . . . . . . . . . . .   N       Y=Yes, N=No




F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 195. Specifying the Field Description for CUSTPOSTAL

3. Press Enter. SEU shows the User Prompt Field Attribute display. Specify the
   field attributes for CUSTPOSTAL as shown in Figure 196.

```
                    User Prompt Field Attribute

Prompt code  . . . . . . :   CD
Prompt text  . . . . . . :   Customer Information
Field name . . . . . . . :   CUSTPOSTAL

Type choices, press Enter.

  Line on display  . . . . . . . . .   20      6 - 20
  Column on display  . . . . . . . .   01      1 - 80
  Data type  . . . . . . . . . . . .   2       1=Alphameric, 2=Alphabetic,
                                               3=Numeric,    4=Digits

  Length . . . . . . . . . . . . . .   7_      0 - 228
  Column in the source record  . . .   65_     1 - 228
  Highlight  . . . . . . . . . . . .   Y       Y=Yes, N=No
  Reverse image  . . . . . . . . . .   N       Y=Yes, N=No
  Column separator . . . . . . . . .   N       Y=Yes, N=No
  Underline  . . . . . . . . . . . .   Y       Y=Yes, N=No


F3=Exit    F5=Refresh    F10=Save
F11=Display prompt        F12=Cancel
```

Figure 196. Specifying the Field Attributes for CUSTPOSTAL

4. Press Enter. SEU saves the new field and returns to the Work with User-
   Defined Prompt Definition display, as shown in Figure 197 on page 180.

```
Work with User-Defined Prompt Definition

Prompt code  . . . . . . . . . . . :    CD

Type information, press Enter.
   Position to  . . . . . . . . . . .  _____         Name
   New field  . . . . . . . . . . .    _____         Name, SEQUENCE
   Prompt text  . . . .    Customer Information_____

Type options, press Enter.
   1=Define description          2=Define attribute          4=Delete
Opt   Field Name     Field Text
  _    CUSTADDRES     Cust. Address - 20 chars.
  _    CUSTCITY       Cust. City, Country - 20 chars.
  _    CUSTNAME       Cust. Name - 24 chars.
  _    CUSTPOSTAL     Cust. Postal Code - 7 chars.




                                                                   Bottom
F3=Exit    F5=Refresh    F10=Save
F11=Display prompt         F12=Cancel
```

Figure 197. Prompt with CUSTPOSTAL Field Entered

Displaying and Saving the Prompt

1. Press F11 = Display prompt to see what the prompt looks like on the Edit display, as shown in Figure 198.

```
Columns . . . :   1  71          Display Prompt          LIBRNAME01/FILENAME01
SEU==> _____        MEMBNAME01
...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+...
*************** Beginning'of data ***************************************
0001.00 This is a sample edit line.
0002.00 This is a sample edit line.
0003.00 This is a sample edit line.
0004.00 This is a sample edit line.
0005.00 This is a sample edit line.
0006.00 This is a sample edit line.
0007.00 This is a sample edit line.
0008.00 This is a sample edit line.
Cust. Name - 24 chars.
_____
Cust. Address - 20 chars.
_____
Cust. City, Country - 20 chars
_____
Cust. Postal Code - 7 chars.
_____

 F3=Exit    F4=Prompt    F5=Refresh          F11=Previous record
 F12=Cancel              F23=Select prompt   F24=More keys
Press any function key to return to the User-Defined Prompt Definition display.
```

Figure 198. Showing the Prompt on the Display

2. Press any function key to return the Work with User-Defined Prompt Definition display.

3. From the Work with User-Defined Prompt Definition display, press F10 = Save and then F12 = Cancel to return to the Select User-Defined Prompt display, as shown in Figure 199 on page 181.

```
┌─────────────────────────────────────────────────────────────────────┐
│                       Select User-Defined Prompt                     │
│                                                                       │
│  Type information, press Enter.                                       │
│    Position to . . . . . . . . . . . . . . . . . . . . . . . . . .  __│
│    Create a prompt . . . . . . . . . . . . . . . . . . . . . . . .  __│
│                                                                       │
│  Type options, press Enter.                                           │
│    1=Select      2=Change      4=Delete                               │
│                                                                       │
│  Opt   Code   Prompt Text                                             │
│   _     CD    Customer Information                                    │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                Bottom │
│                                                                       │
│   F3=Exit    F5=Refresh    F12=Cancel                                 │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```
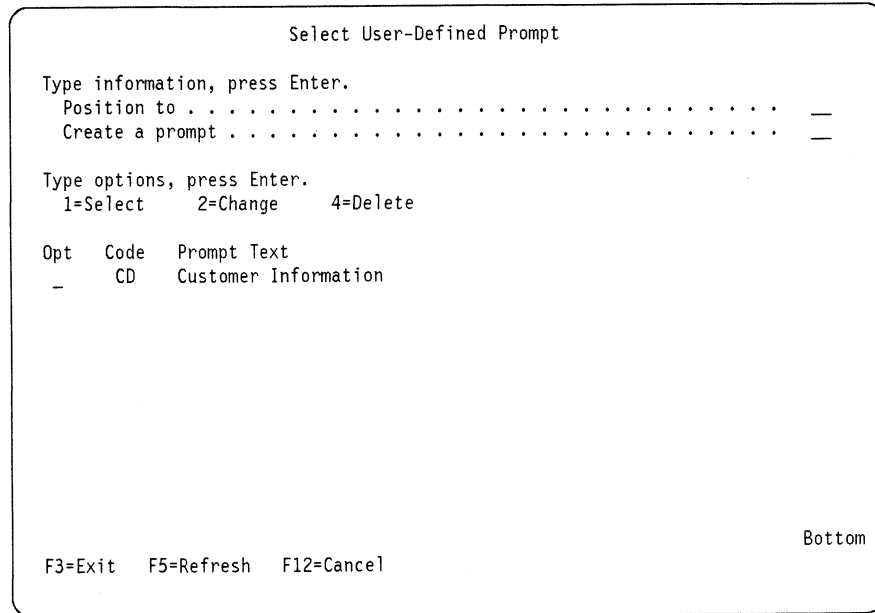
Figure 199. Select User-Defined Prompt Display with CD Prompt

Controlling Access to User-Defined Prompts

This section contains additional information on controlling access by other users to your user-defined prompts.

Defaults for Storage and Retrieval of User-Defined Prompts

SEU provides two files for storing prompts:

- QASUPMT contains all IBM-supplied high-level-language (HLL) prompts

- QASUUSRPMT contains user-defined prompts.

When you create a user-defined prompt, SEU looks in your library list for the file QASUUSRPMT and a member with the same name as your user ID. If a member exists with this name, the prompt definition is stored in this member. No other user has access to any prompts stored under your user ID.

If SEU does not find a member with the same name as your user ID, the prompt definition is stored in member QASUUSRPMT. Prompts stored in this member can be shared by other users.

If the file QASUUSRPMT is not found when you try to save or create a user-defined prompt, SEU issues the following error message:

`Cannot find prompt file *LIBL/QASUUSRPMT.`

Initially, the member QASUUSRPMT is empty, and is stored in the file QGPL/QASUUSRPMT. You can, however, move or duplicate it to any library in your library list. Member QASUPMT is stored in the file QPDA/QASUPMT. It cannot be moved to another file.

When you request a prompt on the Edit display, SEU searches the members of the files in the library list for the prompt in the following order:

1. *LIBL/QASUUSRPMT   *userid*
2. *LIBL/QASUUSRPMT   QASUUSRPMT
3. QPDA/QASUPMT   QASUPMT.

If, after searching the prompt members, the prompt is still not found, SEU issues the following message:

```
Prompt or format not correct, or does not exist.
```

Creating User-Defined Prompts for Nonshared Access

Initially, SEU stores prompts that you create in the member QASUUSRPMT in QGPL/QASUUSRPMT. Prompts stored in this member can be displayed and changed by other users.

If you want to maintain your own set of user-defined prompts, use the Add Physical File Member (ADDPFM) command to create a member in the file QASUUSRPMT with the same name as your user ID. When you store or display prompts, SEU will always look for this member first before looking anywhere else for a place in which to store or retrieve prompts.

Creating Additional User-Defined Prompt Files

You can create additional QASUUSRPMT files to store your user-defined prompts in libraries other than the initial default library QGPL.

To create another QASUUSRPMT file, use the Create Duplicate Object (CRTDUPOBJ) command to create a copy of QGPL/QASUUSRPMT in the library of your choice. Figure 200 shows the entry display for the CRTDUPOBJ command.

```
                    Create Duplicate Object (CRTDUPOBJ)

 Type choices, press Enter.

 From object  . . . . . . . . . .   QASUUSRPMT   Name, generic*, *ALL
 From library . . . . . . . . . .   QGPL_____   Name, *CURLIB
 Object type  . . . . . . . . . .   *ALL___      *ALL, *ALRTBL, *AUTL...
               + for more values   ____
 To library . . . . . . . . . . .   *FROMLIB__   Name, *SAME, *FROMLIB...
 New object . . . . . . . . . . .   *OBJ_____   Name, *SAME, *OBJ
```

Figure 200. Create Duplicate Object (CRTDUPOBJ) Command Entry Display

If you want to copy the existing members in QASUUSRPMT that contain user-defined prompts to the new prompt file, specify *YES for *Duplicate data*. Otherwise, specify *NO.

If you specify *NO for the *Duplicate data* parameter, you must use the Add Physical File Member (ADDPFM) command to add new members to the new file.

Chapter 12. Examples of Creating and Changing a Source Member

This chapter contains two examples. The first example shows how to create a new source member and how to enter RPG specifications in the new member. The second example shows how to change an existing DDS source member.

Example 1: Creating a Source Member

Assume that you want to create a new source member named PROG5 in source file QRPGSRC in library QGPL. The source member contains the RPG specifications on the coding sheets, as shown in Figure 202 on page 184.

This example shows you how to:

- Start an SEU session using the STRSEU command
- Insert new source statements using the Insert line command
- Insert new source statements using a format line
- Insert new source statements using a prompt
- Save the newly created member using the SEU FILE command.

Starting a Session with the STRSEU Command

Follow these steps to start a session with SEU:

1. Type the following STRSEU command:

   ```
   STRSEU SRCFILE(QGPL/QRPGSRC) SRCMBR(PROG5) TYPE(RPG)
   OPTION(2) TEXT('Sample Program 5')
   ```

2. Press Enter. The Edit display appears as shown in Figure 201.

```
 Columns . . . :    1  71            Edit                    QGPL/QRPGSRC
 SEU==>  _____        PROG5
 FMT H  .....H.........1..CDYI.....S...............1.F.....................
 ************** Beginning of data *********************************
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '
 ' ' ' ' ' ' '

 **************** End of data **************************************

 F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find        F17=Repeat change          F24=More keys
 Member PROG5 added to file QGPL/QRPGSRC.                          +
```

Figure 201. Edit Display with New Member PROG5

183

RPG CONTROL AND FILE DESCRIPTION SPECIFICATIONS

IBM International Business Machines Corporation

| Program | | Keying | Graphic | | | | Card Electro Number | | Page **01** of **2** | Program Identification |
| Programmer | Date | Instruction | Key | | | | | | | |

Control Specifications

For the valid entries for a system, refer to the RPG reference manual for that system.

(H specification form — line 01 H)

File Description Specifications

For the valid entries for a system, refer to the RPG reference manual for that system.

(F specification form)

```
02  F*  SAMPLE PROGRAM 5
03  F*
04  FCUSMINQ CF  E                        WORKSTN
05  FCUSMSTL IF  E            K           DISK
06  F
```

RPG CALCULATION SPECIFICATIONS

IBM International Business Machines Corporation

| Program | | Keying | Graphic | | | | Card Electro Number | | Page **02** of **2** | Program Identification |
| Programmer | Date | Instruction | Key | | | | | | | |

Line		Indicators	Factor 1	Operation	Factor 2	Result Field	Resulting Indicators	Comments
01	C		START	TAG				
02	C			EXFMT	CUSPMT			CUST# PROMPT
03	C	15		SETON			LR	15 = END PROG
04	C	15		GOTO	END			
05	C		CUST	CHAIN	CUSREC		99	GET ADDR REC
06	C	99		GOTO	START			99 =NOT FOUND
07	C			EXFMT	CUSFLDS			WRITE ADDR REC
08	C			GOTO	START			
09	C		END	TAG				
10	C							
11	C							
12	C							

Figure 202. RPG Control and File Description Specifications

Because you are creating a new member, the display appears with a screen of blank lines. The last line on the display, Member PROG5 added to file QRPGSRC, indicates that SEU added the new member to the file you specified.

3. To remove the blank lines, press Enter. The display appears as shown in Figure 203 on page 185.

```
Columns . . . :   1  71            Edit              QGPL/QRPGSRC
SEU==> _____       PROG5
FMT H  .....H........1..CDYI....S..............1.F.............................
***************** Beginning of data *********************************
***************** End of data ***************************************
```

```
F3=Exit   F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
F16=Repeat find         F17=Repeat change        F24=More keys
```

Figure 203. Edit Display with New Member PROG5

4. Because you are not going to type a *Page/Line* field (positions 1 through 5 of the RPG specifications), use the window line command to change the horizontal position of the source on the display. Type the W6 command on the beginning-of-data line, as shown in Figure 204.

```
Columns . . . :   1  71            Edit              QGPL/QRPGSRC
SEU==> _____       PROG5
FMT H  .....H........1..CDYI....S..............1.F.............................
W6       **************** Beginning of data ***************************
***************** End of data ***************************************
```

Figure 204. Edit Display with Window Command

5. Press Enter to reposition the display to begin with source column 6, as shown in Figure 205.

```
Columns . . . :   6  76            Edit              QGPL/QRPGSRC
SEU==> _____       PROG5
FMT H  H........1..CDYI....S..............1.F................................Pg
***************** Beginning of data *********************************
***************** End of data ***************************************
```

Figure 205. Edit Display with Records (and Format Line) Windowed

Inserting Source Statements with the Insert Command

Follow these steps to insert two source statements into a member:

1. Type I2 on the beginning-of-data line, as shown in Figure 206.

```
/                                                                    \
  Columns . . . :   6  76          Edit              QGPL/QRPGSRC
  SEU==> _____    PROG5
  FMT H  H........1..CDYI....S..............1.F.................................Pg
  I2     *************** Beginning of data ************************************
         ***************** End of data ************************************
\                                                                    /
```

Figure 206. Edit Display with Insert Command

2. Press Enter. SEU inserts two blank lines for source statements, as shown in Figure 207.

```
/                                                                    \
  Columns . . . :   6  76          Edit              QGPL/QRPGSRC
  SEU==> _____    PROG5
  FMT H  H........1..CDYI....S..............1.F.................................Pg
         *************** Beginning of data ************************************
  ' ' ' ' ' ' '
  ' ' ' ' ' ' '

         ***************** End of data ************************************
\                                                                    /
```

Figure 207. Edit Display with Blank Insert Lines

3. Type two file-description comment specifications (lines 02 and 03 from the File Description Specification coding form in Figure 202 on page 184) on the blank lines, as shown in Figure 208.

```
/                                                                    \
  Columns . . . :   6  76          Edit              QGPL/QRPGSRC
  SEU==> _____    PROG5
  FMT H  H........1..CDYI....S..............1.F.................................Pg
         *************** Beginning of data ************************************
  ' ' ' ' ' ' ' F* SAMPLE PROGRAM 5
  ' ' ' ' ' ' ' F*
         ***************** End of data ************************************
\                                                                    /
```

Figure 208. Edit Display with Source Statements Typed In

4. Press Enter. SEU enters the records into the member and inserts another record after the ones you typed. Press Enter again and SEU assigns sequence numbers to them and removes the blank insert line, as shown in Figure 209.

```
/                                                                    \
  Columns . . . :   6  76          Edit              QGPL/QRPGSRC
  SEU==> _____    PROG5
  FMT *  *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
         *************** Beginning of data ************************************
  0001.00 F* SAMPLE PROGRAM 5
  0002.00 F*
         ***************** End of data ************************************
\                                                                    /
```

Figure 209. Edit Display with New Records

Inserting Source Statements with a Format Line

Follow these steps to insert source statements using a format line:

1. Type the IFF2 line command in sequence number 0002.00, as shown in Figure 210.

```
Columns . . . :   6  76              Edit                    QGPL/QRPGSRC
SEU==>                                                              PROG5
FMT *     *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
         *************** Beginning of data *************************************
0001.00 F* SAMPLE PROGRAM 5
IFF2     F*
         ****************** End of data **************************************
```

Figure 210. Edit Display with Insert-with-Format Command

2. Press Enter. SEU inserts an F format line and two blank lines, as shown in Figure 211.

```
Columns . . . :   6  76              Edit                    QGPL/QRPGSRC
SEU==>                                                              PROG5
FMT *     *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
         *************** Beginning of data *************************************
0001.00 F* SAMPLE PROGRAM 5
0002.00 F*
FMT F    FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U1....
''''''''
''''''''
         ****************** End of data **************************************
```

Figure 211. Edit Display with Format Line and Insert Lines

3. Type the two file-description specifications in the blank lines, as shown in Figure 212.

```
Columns . . . :   6  76              Edit                    QGPL/QRPGSRC
SEU==>                                                              PROG5
FMT *     *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
         *************** Beginning of data *************************************
0001.00 F* SAMPLE PROGRAM 5
0002.00 F*
FMT F    FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U1....
'''''''' FCUSMINQ CF  E                  WORKSTN
'''''''' FCUSMSTL IF  E         K        DISK
         ****************** End of data **************************************
```

Figure 212. Edit Display with Specifications Typed In

4. With the cursor at the end of the second insert line, press Enter. SEU enters the records into the member, assigns sequence numbers 0003.00 and 0004.00 to them, and inserts another blank line, as shown in Figure 213 on page 188.

```
Columns . . . :   6  76                Edit                    QGPL/QRPGSRC
SEU==> _____        PROG5
FMT *    *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
        *************** Beginning of data ***********************************
0001.00 F* SAMPLE PROGRAM 5
0002.00 F*
0003.00 FCUSMINQ CF  E                   WORKSTN
0004.00 FCUSMSTL IF  E           K       DISK
FMT F    FFilenameIPEAF....RlenLK1AIOvKlocEDevice+......KExit++Entry+A....U1....
iiiiiii

        ***************** End of data ***************************************
```

Figure 213. Edit Display with New Records

5. Press F5 = Refresh to remove the format line and blank line.

Inserting Source Statements with a Prompt

Follow these steps to insert source statements with a prompt:

1. Type SET EXPERT on the SEU command line, as shown in Figure 214 and press any positional function key such as Enter, Page Up, Page Down, F19 = Left, or F20 = Right. This sets the Edit display to full screen mode which provides four more edit lines and displays short forms for most of the SEU language prompts.

   See "Using Full Screen Mode on the Edit Display" on page 42 for more information.

```
Columns . . . :   6  76                Edit                    QGPL/QRPGSRC
SEU==> SET EXPERT_____       PROG5
FMT *    *. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
        *************** Beginning of data ***********************************
0001.00 F* SAMPLE PROGRAM 5
0002.00 F*
0003.00 FCUSMINQ CF  E                   WORKSTN
0004.00 FCUSMSTL IF  E           K       DISK
        ***************** End of data ***************************************
```

Figure 214. Edit Display with SET EXPERT ON Command

2. Type IPC in sequence number 0004.00 to request the C (Calculation) prompt, as shown in Figure 215.

```
Columns . . . :   6  76                Edit                    QGPL/QRPGSRC
SEU==> _____        PROG5
        *************** Beginning of data ***********************************
0001.00 F* SAMPLE PROGRAM 5
0002.00 F*
0003.00 FCUSMINQ CF  E                   WORKSTN
IPC     FCUSMSTL IF  E           K       DISK
        ***************** End of data ***************************************
```

Figure 215. Edit Display with Insert-with-Prompt Command

3. Press Enter. SEU inserts the C prompt at the bottom of the display. The fields of the calculation specification are separated and labeled, as shown in Figure 216 on page 189.

```
  Columns . . . :   6  76            Edit                    QGPL/QRPGSRC
  SEU==> _____             PROG5
         ************** Beginning of data *************************************
  0001.00 F* SAMPLE PROGRAM 5
  0002.00 F*
  0003.00 FCUSMINQ CF  E                      WORKSTN
  0004.00 FCUSMSTL IF  E            K         DISK
  ''''''''

         ***************** End of data *****************************************











  Pmt  SeqNbr   Lvl  N01N02N03  Factor 1    OpCode  Factor 2    Result
  C    ''''''''  __  _____                      _____  _____
       Len  Dec H/N/P Hi  Lo  Eq  Comment
       __   _   _   _   _   _   _____
```

Figure 216. Edit Display with Calculation Prompt

4. Type START under the *Factor 1* column and type TAG under the *OpCode* column, as shown in Figure 217.

```
  Pmt  SeqNbr   Lvl  N01N02N03  Factor 1    OpCode  Factor 2    Result
  C    ''''''''  __  _____   START____   TAG__  _____  _____
       Len  Dec H/N/P Hi  Lo  Eq  Comment
       __   _   _   _   _   _   _____
```

Figure 217. Edit Display with Prompt Entries

5. Press Enter. SEU creates a source record with the calculation specification and assigns sequence number 0005.00 to the record, as shown in Figure 218.

```
  Columns . . . :   6  76            Edit                    QGPL/QRPGSRC
  SEU==> _____             PROG5
         ************** Beginning of data *************************************
  0001.00 F* SAMPLE PROGRAM 5
  0002.00 F*
  0003.00 FCUSMINQ CF  E                      WORKSTN
  0004.00 FCUSMSTL IF  E            K         DISK
  0005.00 C            START       TAG
  ''''''''

         ***************** End of data *****************************************








  Pmt  SeqNbr   Lvl  N01N02N03  Factor 1    OpCode  Factor 2    Result
  C    ''''''''  __  _____                      _____  _____
       Len  Dec H/N/P Hi  Lo  Eq  Comment
       __   _   _   _   _   _   _____
```

Figure 218. Edit Display with New Record

6. Type the rest of the calculation specifications (shown on the RPG Calculation Specification coding form in Figure 202 on page 184) in the prompt. When you have entered the last specification, your display appears as shown in Figure 219.

```
 Columns . . . :   6  76              Edit                      QGPL/QRPGSRC
 SEU==> _____    PROG5
 *************** Beginning of data *************************************
 0001.00 F* SAMPLE PROGRAM 5
 0002.00 F*
 0003.00 FCUSMINQ CF  E                    WORKSTN
 0004.00 FCUSMSTL IF  E        K           DISK
 0005.00 C          START    TAG
 0006.00 C                    EXFMTCUSPMT                     CUST# PROMPT
 0007.00 C    15             SETON               LR   15 = END PROG
 0008.00 C    15             GOTO END
 0009.00 C          CUST     CHAINCUSREC           99   GET ADDR REC
 0010.00 C    99             GOTO START                 99 =NOT FOUND
 0011.00 C                    EXFMTCUSFLDS               WRITE ADDR REC
 0012.00 C                    GOTO START
 0013.00 C          END      TAG
 ι ι ι ι ι ι
          ****************** End of data ****************************************

 Pmt  SeqNbr   Lvl  N01N02N03 Factor 1    OpCode Factor 2   Result
 C    ι ι ι ι ι ι    __   _____  _____   _____ _____  _____
      Len  Dec H/N/P Hi  Lo  Eq  Comment
      __   _   _   _   _   _   _____
```

Figure 219. Edit Display with New Records

7. Press F5 = Refresh to remove the prompt and blank line.

Saving the Member

Follow these steps to save the member you have just created:

1. Press F10 = Cursor to move the cursor from the data area to the SEU command line. Enter FILE on the SEU command line to save this member in the current library/file, as shown in Figure 220 on page 191.

   See "Saving, Filing, or Canceling Changes to a Member" on page 119 for more information on using the SEU FILE command.

```
  Columns . . . :   6  76              Edit                        QGPL/QRPGSRC
  SEU==> FILE_____        PROG5
         *************** Beginning of data ********************************
  0001.00 F* SAMPLE PROGRAM 5
  0002.00 F*
  0003.00 FCUSMINQ CF  E                     WORKSTN
  0004.00 FCUSMSTL IF  E          K          DISK
  0005.00 C              START    TAG
  0006.00 C                       EXFMTCUSPMT                    CUST# PROMPT
  0007.00 C     15                SETON                    LR   15 = END PROG
  0008.00 C     15                GOTO END
  0009.00 C              CUST     CHAINCUSREC              99   GET ADDR REC
  0010.00 C     99                GOTO START                    99 =NOT FOUND
  0011.00 C                       EXFMTCUSFLDS                   WRITE ADDR REC
  0012.00 C                       GOTO START
  0013.00 C              END      TAG
         *************** End of data **************************************
```

Figure 220. Edit Display with New Records

2. Press Enter to accept the member you created with the STRSEU command and exit from SEU.

Example 2: Changing a Source Member

This example describes how to make changes to the DDS specifications in a source member. Suppose that you have a source member called MLG105D, which is in file QDDSSRC in library QGPL. Also suppose that Figure 221 on page 192 shows the SEU source listing of this member, and that you want to make the changes that are indicated on this figure.

```
SOURCE FILE . . . . . . .   QGPL/QDDSSRC
MEMBER . . . . . . . . .   MLG105D
SEQNBR*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8 ...+... 9 ...+... 0
  100    A**
  110    A** DISPLAY  MLG105D     MAILING LIST TRANSACTION ENTRY DISPLAY
  120    A**            1
  130    A                                        REF(MLGREFP)
  140    A                                        PRINT
  150    A          R INITIAL                     TEXT('Initial Prompt')
  160    A                                        CA12(98 'End of Program')
  170    A                                      1 2'MAILING LIST TRANSACTIONS'
  180    A                                        DSPATR(HI)
  190    A                                      1 55'CF12-End of Program'
  200    A                                      3 3'Batch Number'
  210    A          BATNUM    R       I    +1
  220    A 71   2                                 ERRMSG('Batch number does not +
  230    A                                         exist' 71)
  240    A 72                                      ERRMSG('Duplicate Batch +
  250    A                                         number' 72)
  260    A
  270    A 74                                      ERRMSG('Status of the Batch +
  280    A                                         does not allow any +
  290    A                                         additions' 74)
  300    A                                      5 3'Type of Request'
  310    A          TYPRQS      1   I    +1VALUES('N' 'A')
  320    A                                        TEXT('N=New A=Add')
  330    A                                      7 9'N = New Batch'
  340    A                                      8 9'A = Add to existing Batch'
  350    A                                     13 3'Batch Description if New'
  360    A          BATDSC    R       I    +1
  370    A 80                                  17 2'Last Batch entered'
  380    A 80     LSTBAT    R                 +1REFFLD(BATNUM)
  390    A 93                                 17 35'Status ='
  400    A 93                                     +1'Ready'
  410    A                                        DSPATR(HI)
  420    A 95                                 17 35'Status ='
  430    A 95                                     +1'To be continued'
  440    A                                        DSPATR(HI)
  450    A          R CONFIRM                      TEXT('Confirmation Request')
  460    A                                        CA10(97 'Continuation Requested')
  470    A                                      1 2'MAILING LIST TRANSACITONS - +
  480    A                                         CONFIRMATION'        3
  490    A                                        DSPATR(HI)
  500    A                                      3 2'Batch Number'
  510    A          BATNUM    R  4  5    +1DSPATR(HI)
  520    A                                      5 2'Batch header is coded as +
  530    A                                         being keyed'
  540    A                                      7 2'If this is a +
  550    A                                         Recovery situation use CF10'
  560    A                                      9 2'If not Recovery, press Enter +
  570    A                                         to return to first prompt.'
  580    A          R SUBFIL                       TEXT('Sub file for transactions')
  590    A                                        SFL
  600    A          TRNTYP    R       I  5  2
  610    A          XACTNM    R       I  5  4
  620    A          XACTTP    R       I  5 11
  630    A          XNAME     R       I  5 14
  640    A          XADDR     R       I  5 33
  650    A          XCITY     R       I  5 52
  660    A          XSTATE    R       I  5 71
  670    A          XZIP      R       I  5 74
                    * * * *  E N D  O F  S O U R C E  * * *  *
```

Figure 221. SEU Source Listing

The list of items in Figure 222 describes the changes to make to the source member MLG105D. Each number in the list corresponds to a number on the SEU source listing in Figure 221.

Figure 222. Changes to Incorporate into Source Member MLG105D

Item	Change to be made in Source Member
1	Add the comment: CORRECTIONS MADE BY J.A.H., 09/07/92
2	Change the indicator 71 to 81. Add indicators 72 and 74.
3	Change IT to TI in the word TRANSACITONS
4	Specify 3 for the *Length* field
5	Specify 0 for the *Decimal positions* field

This example shows you how to:

- Start a session from the Work With Members Using PDM display
- Make changes to records directly
- Make changes to records using a format line
- Enter system commands using the System Command window
- Make changes to records using a prompt
- Save the changes you make to the member.

Starting a Session from the Work with Members Using PDM Display

To start an SEU session from the Work With Members Using PDM Display:

1. Start the Programming Development Manager (PDM) from a command line or the AS/400 Command Entry display with the Start PDM (STRPDM) command. Access the Work With Members Using PDM display and specify QGPL for the library name and QDDSSRC for the file name to work with. For more information on using PDM, see the *PDM User's Guide and Reference.*

2. Type 2 in the *Opt* field next to the member MLG105D.

3. Press Enter. The Programming Development Manager (PDM) calls SEU and SEU calls the Edit display, shown in Figure 223.

```
  Columns . . . :   1  71              Edit                    QPGL/QDDSSRC
  SEU==> _____         MLG105D
  FMT A* .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
           *************** Beginning of data ********************************
  0001.00    A**
  0002.00    A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
  0003.00    A**
  0004.00    A                                      REF(MLGREFP)
  0005.00    A                                      PRINT
  0006.00    A         R INITIAL                    TEXT('Initial Prompt')
  0007.00    A                                      CA12(98 'End of Program')
  0008.00    A                                  1  2'MAILING LIST TRANSACTIONS'
  0009.00    A                                      DSPATR(HI)
  0010.00    A                                  1 55'CF12-End of Program'
  0011.00    A                                  3  3'Batch Number'
  0012.00    A         BATNUM    R        I     +1
  0013.00    A  71                                  ERRMSG('Batch number does n
  0014.00    A                                      exist' 71)
  0015.00    A  72                                  ERRMSG('Duplicate Batch +
  0016.00    A                                      number' 72)


   F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
   F16=Repeat find        F17=Repeat change          F24=More keys
                                    (C) COPYRIGHT IBM CORP. 1981, 1992.
```

Figure 223. Edit Display with MLG105D Member

4. Type the Window line command (W6) as shown in Figure 224.

```
  Columns . . . :   1  71              Edit                    QGPL/SRC
  SEU==> _____         MLG105D
  FMT A* .....A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
  W6      *************** Beginning of data ********************************
  0001.00    A**
  0002.00    A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
  0003.00    A**
  0004.00    A                                      REF(MLGREFP)
  0005.00    A                                      PRINT
  0006.00    A         R INITIAL                    TEXT('Initial Prompt')
```

Figure 224. Edit Display with Window Command

5. Press Enter. Source position 6 of the DDS specifications appears in the first source position, as shown in Figure 225.

```
  Columns . . . :   6  76              Edit                        QGPL/SRC
  SEU==> _____       MLG105D
  FMT A* A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
  *************** Beginning of data **************************************
  0001.00 A**
  0002.00 A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
  0003.00 A**
  0004.00 A                                    REF(MLGREFP)
  0005.00 A                                    PRINT
  0006.00 A          R INITIAL                 TEXT('Initial Prompt')
  0007.00 A                                    CA12(98 'End of Program')
  0008.00 A                                1 2'MAILING LIST TRANSACTIONS'
  0009.00 A                                    DSPATR(HI)
  0010.00 A                                1 55'CF12-End of Program'
  0011.00 A                                3 3'Batch Number'
  0012.00 A          BATNUM    R       I   +1
  0013.00 A 71                                 ERRMSG('Batch number does not +
  0014.00 A                                      exist' 71)
  0015.00 A 72                                 ERRMSG('Duplicate Batch +
  0016.00 A                                      number' 72)

  F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find         F17=Repeat change          F24=More keys
```

Figure 225. Edit Display with Records Windowed

Making Changes Directly

Follow these steps to add the words CORRECTIONS MADE BY J.A.H. 09/07/92, to record 0003.00:

1. Move the cursor to record 0003.00 and type in the change, as shown in Figure 226.

```
  Columns . . . :   6  76              Edit                        QGPL/SRC
  SEU==> _____       MLG105D
  FMT A* A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
  *************** Beginning of data **************************************
  0001.00 A**
  0002.00 A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
  0003.00 A**          CORRECTIONS MADE BY J.A.H., 09/07/92
  0004.00 A                                    REF(MLGREFP)
  0005.00 A                                    PRINT
  0006.00 A          R INITIAL                 TEXT('Initial Prompt')
  0007.00 A                                    CA12(98 'End of Program')
  0008.00 A                                1 2'MAILING LIST TRANSACTIONS'
  0009.00 A                                    DSPATR(HI)
  0010.00 A                                1 55'CF12-End of Program'
  0011.00 A                                3 3'Batch Number'
  0012.00 A          BATNUM    R       I   +1
  0013.00 A 71                                 ERRMSG('Batch number does not +
  0014.00 A                                      exist' 71)
  0015.00 A 72                                 ERRMSG('Duplicate Batch +
  0016.00 A                                      number' 72)

  F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
  F16=Repeat find         F17=Repeat change          F24=More keys
```

Figure 226. Edit Display with Changes to Record 0003.00

2. Press Enter. SEU accepts the changes to the record.

Making Changes with a Format Line

Follow these steps to make changes with a format line:

1. To add indicators to record 0013.00, type an F line command in sequence number 0013.00.

2. Press Enter. SEU checks record 0013.00 to determine its format, then inserts a DP format line above record 0013.00. The format line has abbreviated field titles to help you identify field positions, as shown in Figure 227.

```
  Columns . . . :    6  76              Edit                      QGPL/SRC
  SEU==>  _____        MLG105D
  FMT A*  A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
          *************** Beginning of data ********************************
  0001.00 A**
  0002.00 A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
  0003.00 A**           CORRECTIONS MADE BY J.A.H., 09/07/92
  0004.00 A                                       REF(MLGREFP)
  0005.00 A                                       PRINT
  0006.00 A          R INITIAL                    TEXT('Initial Prompt')
  0007.00 A                                       CA12(98 'End of Program')
  0008.00 A                              1  2'MAILING LIST TRANSACTIONS'
  0009.00 A                                       DSPATR(HI)
  0010.00 A                              1 55'CF12-End of Program'
  0011.00 A                              3  3'Batch Number'
  0012.00 A          BATNUM     R     I   +1
  FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions++++++++++++++++++++++++
  0013.00 A  71                                   ERRMSG('Batch number does not +
  0014.00 A                                       exist' 71)
  0015.00 A  72                                   ERRMSG('Duplicate Batch +


  F3=Exit    F4=Prompt    F5=Refresh   F9=Retrieve    F10=Cursor
  F16=Repeat find         F17=Repeat change          F24=More keys
```

Figure 227. Edit Display with Format Line

Note: In this example, the SEU operations are requested one at a time, so you can see the result of each operation. However, you could have typed in the window line command, typed in the change on record 0003.00, and typed in the format line command before pressing Enter. SEU then would have performed all three operations at the same time.

3. On record 0013.00, change indicator 71 to 81 and add indicators 72 and 74. Change the *Functions* field of record 0014.00 from 71 to 81.

4. Press Enter. SEU accepts the changes and keeps the format line, as shown in Figure 228 on page 196.

Note: SEU removes the format line when you exit from editing. You can also remove the format line by pressing F5=Refresh or by using the D (delete) line command.

```
┌────────────────────────────────────────────────────────────────────┐
│  Columns . . . :   6  76            Edit                  QGPL/SRC   │
│  SEU==> _____  MLG105D  │
│  FMT A*  A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+. │
│          *************** Beginning of data ************************************* │
│  0001.00 A**                                                        │
│  0002.00 A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY │
│  0003.00 A**          CORRECTIONS MADE BY J.A.H., 09/07/92          │
│  0004.00 A                                REF(MLGREFP)              │
│  0005.00 A                                PRINT                     │
│  0006.00 A         R INITIAL              TEXT('Initial Prompt')    │
│  0007.00 A                                CA12(98 'End of Program') │
│  0008.00 A                              1  2'MAILING LIST TRANSACTIONS' │
│  0009.00 A                                DSPATR(HI)                │
│  0010.00 A                              1 55'CF12-End of Program'   │
│  0011.00 A                              3  3'Batch Number'          │
│  0012.00 A         BATNUM    R      I   +1                          │
│  FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions+++++++++++++++++++++++ │
│  0013.00 A  81 72 74                      ERRMSG('Batch number does not + │
│  0014.00 A                                exist' 81)               │
│  0015.00 A  72                            ERRMSG('Duplicate Batch + │
│                                                                    │
│   F3=Exit    F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor     │
│   F16=Repeat find        F17=Repeat change          F24=More keys  │
│                                                                    │
└────────────────────────────────────────────────────────────────────┘
```

Figure 228. Edit Display with Changed Records

Making Changes by Using the SEU FIND Command

Follow these steps to find the string TRANSACITON in a record and change it to
TRANSACTION:

1. Press F10 = Cursor to move the cursor from the data area to the SEU
   command line.

2. Type SET MATCH on the SEU command line. See "Tailoring Your Find and
   Change Operations" on page 116 for more information on the SEU SET
   MATCH command.

3. Type F 'TRANSACITON' on the SEU command line, as shown in Figure 229
   on page 197. See "Finding and Changing Character Strings" on page 112
   for more information on the SEU FIND command.

```
Columns . . . :   6  76              Edit                    QGPL/SRC
SEU==> F 'TRANSACITON'_____        MLG105D
FMT A*  A*. 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+.
        *************** Beginning of data ***************************************
0001.00 A**
0002.00 A** DISPLAY  MLG105D    MAILING LIST TRANSACTION ENTRY DISPLAY
0003.00 A**          CORRECTIONS MADE BY J.A.H., 09/07/92
0004.00 A                                      REF(MLGREFP)
0005.00 A                                      PRINT
0006.00 A          R INITIAL                   TEXT('Initial Prompt')
0007.00 A                                      CA12(98 'End of Program')
0008.00 A                                    1  2'MAILING LIST TRANSACTIONS'
0009.00 A                                      DSPATR(HI)
0010.00 A                                    1 55'CF12-End of Program'
0011.00 A                                    3  3'Batch Number'
0012.00 A          BATNUM    R        I     +1
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions++++++++++++++++++++++++++
0013.00 A  81 72 74                           ERRMSG('Batch number does not +
0014.00 A                                     exist' 81)
0015.00 A  72                                 ERRMSG('Duplicate Batch +


 F3=Exit   F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find        F17=Repeat change          F24=More keys
```

Figure 229. Edit Display with Find Command

4. Press Enter or F16 = Repeat find. SEU finds the first occurrence of the string.

   Note: You can also position the display to the record if you know the record sequence number. In this case, it is record 0038.00. You can type 38ᵇ (38 and a space) in any *Sequence number* field and press Enter. The display changes to show record 0038.00 as the first record, as shown in Figure 230.

```
Columns . . . :   6  76              Edit                    QGPL/SRC
SEU==> _____        MLG105D
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions++++++++++++++++++++++++++
0038.00 A                                    1  2'MAILING LIST TRANSACITONS - +
0039.00 A                                         CONFIRMATION'
0040.00 A                                      DSPATR(HI)
0041.00 A                                    3  2'Batch Number'
0042.00 A          BATNUM    R                +1DSPATR(HI)
0043.00 A                                    5  2'Batch header is coded as +
0044.00 A                                      being keyed'
0045.00 A                                    7  2'If this is a +
0046.00 A                                      Recovery situation use CF10'
0047.00 A                                    9  2'If not Recovery, press Enter +
0048.00 A                                      to return to first prompt.'
0049.00 A          R SUBFIL                   TEXT('Sub file for transactions'
0050.00 A                                      SFL
0051.00 A          TRNTYP    R        I  5  2
0052.00 A          XACTNM    R        I  5  4
0053.00 A          XACTTP    R        I  5 11
0054.00 A          XNAME     R        I  5 14


 F3=Exit   F4=Prompt    F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find        F17=Repeat change          F24=More keys
```

Figure 230. Edit Display with Record 0038.00 as First Record

5. Type TI over the IT in TRANSACITON on record 0038.00 to correct the spelling.

6. Press Enter. SEU accepts the changes to the record.

Entering System Commands

Follow these steps to enter system commands:

1. Press F21 = System command to see the System Command window, shown in Figure 231.

```
  Columns . . . :   6  76            Edit                    QGPL/SRC
  SEU==>  _____    MLG105D
  FMT DP  AANO1NO2NO3T.Name++++++RLen++TDpBLinPosFunctions+++++++++++++++++++++++
  0038.00 A                                    1  2'MAILING LIST TRANSACTIONS - +
  0039.00 A                                          CONFIRMATION'
  0040.00 A                                          DSPATR(HI)
  0041.00 A                                    3  2'Batch Number'
  0042.00 A          BATNUM     R                  +1DSPATR(HI)
  0043.00 A                                    5  2'Batch header is coded as +
  0044.00 A                                          being keyed'
  0045.00 A                                    7  2'If this is a +
  0046.00 A                                          Recovery situation use CF10'
  0047.00 A                                    9  2'If not Recovery, press Enter +
  0048.00 A                                          to return to first prompt.'
  0049.00 A          R SUBFIL                        TEXT('Sub file for transactions'
  0050.00 A                                          SFL
  ..........................................................................
  :                                System Command                          :
  :                                                                        :
  :  ===>  _____         :
  :  F4=Prompt    F9=Retrieve    F12=Cancel                                :
  :  (C) COPYRIGHT IBM CORP. 1981, 1992.                                   :
  :........................................................................:
```

Figure 231. Edit Display with System Command Window

Note: Only the System Command window is active on the work screen.

2. Enter the Work with Active Jobs (WRKACTJOB) command and press Enter to request a list of active jobs.

3. Press F3 = Exit to return the Edit display with the System Command window.

4. Press Enter or F12 = Cancel to remove the system command window. See "Entering System Commands" on page 108 for more details on using the system command window.

Making Changes with a Prompt

Follow these steps to make changes with a prompt:

1. Type a P in sequence number 0042.00.

2. Press Enter. SEU places the contents of record 0042.00 in a prompt at the bottom of the display, as shown in Figure 232 on page 199.

   Note: To set the Edit display to full screen mode, type SET EXPERT on the SEU command line. When you use SEU prompts, four more edit lines are provided and short forms for most of the SEU language prompts are displayed.

```
Columns . . . :    6  76              Edit                         QGPL/SRC
SEU==> _____              MLG105D
FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions++++++++++++++++++++++
0038.00 A                                1  2'MAILING LIST TRANSACTIONS - +
0039.00 A                                   CONFIRMATION'
0040.00 A                                   DSPATR(HI)
0041.00 A                                3  2'Batch Number'
0042.00 A            BATNUM    R           +1DSPATR(HI)
0043.00 A                                5  2'Batch header is coded as +
0044.00 A                                   being keyed'
Prompt type . . .   DP       Sequence number . . .  0042.00

And/Or/                      Name
Comment    N01N02N03         Type      Name        Ref      Length
                                       BATNUM____   R        _____
Data       Decimal            _        --- Location ---
Type       Positions         Use       Line    Position
 _         __                 _        ___        _+1
Functions
DSPATR(HI)_____


F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
F16=Repeat find       F17=Repeat change          F24=More keys
```

Figure 232. Edit Display with Prompt

3. Type a 3 under *Length* and press Field Exit to right-adjust the value. Type a 0 under *Decimal Positions* and press Field Exit to right-adjust the value. The prompt appears as shown in Figure 233.

```
Prompt type . . .   DP       Sequence number . . .  0042.00

And/Or/                      Name
Comment    N01N02N03         Type      Name        Ref      Length
                                       BATNUM____   R        ____3
Data       Decimal            _    ,   --- Location ---
Type       Positions         Use       Line    Position
 _          _0                _       ___        _+1
Functions
DSPATR(HI)_____


F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
F16=Repeat find       F17=Repeat change          F24=More keys
```

Figure 233. Prompt with Values Typed In

4. Press Enter. SEU adds the values to the fields in record 0042.00. Because the prompt operation is a repeating operation, SEU also places the next record (0043.00) in the prompt, as shown in Figure 234 on page 200. If you want to, you can now make changes to record 0043.00.

```
 Columns . . . :   6  76          Edit                    QGPL/SRC
 SEU==> _____      MLG105D
 FMT DP  AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions+++++++++++++++++++++++
 0038.00 A                             1 2'MAILING LIST TRANSACTIONS - +
 0039.00 A                                 CONFIRMATION'
 0040.00 A                                 DSPATR(HI)
 0041.00 A                             3 2'Batch Number'
 0042.00 A          BATNUM   R   3  0    +1DSPATR(HI)
 0043.00 A                             5 2'Batch header is coded as +
 0044.00 A                                 being keyed'
 Prompt type . . .  DP      Sequence number . . . 0043.00


 And/Or/                     Name
 Comment     N01N02N03       Type      Name       Ref       Length
 _           _____        _       _____    _        _____
 Data        Decimal                 --- Location ---
 Type        Positions       Use     Line    Position
 _           __              _        _5       _2
 Functions
 'Batch header is coded as +_____


 F3=Exit   F4=Prompt   F5=Refresh   F9=Retrieve   F10=Cursor
 F16=Repeat find       F17=Repeat change          F24=More keys
```

Figure 234. Edit Display with Changes Made and Next Record in Prompt

Saving the Changes

Follow these steps to save the changes to member MLG105D:

1. Press F3 = Exit to reach the Exit display. Because you made changes to the source member, SEU provides a Y (Yes) in the *Change/create member* field, as shown in Figure 235.

```
                         Exit

 Type choices, press Enter.
   Change/create member . . . . . . .  Y         Y=Yes, N=No
     Member  . . . . . . . . . . . .  MLG105D___ Name, F4 for list
     File  . . . . . . . . . . . . .  QDDSSRC___ Name, F4 for list
       Library name  . . . . . . . .   QGPL_____ Name
     Text  . . . . . . . . . . . . .  _____

     Resequence member . . . . . . .  Y         Y=Yes, N=No
       Start . . . . . . . . . . . .  0001.00    0000.01-9999.99
       Increment . . . . . . . . . .  01.00      0.01-99.99

   Print member  . . . . . . . . . .  N         Y=Yes, N=No

   Return to editing . . . . . . . .  N         Y=Yes, N=No

   Go to member list . . . . . . . .  N         Y=Yes, N=No



 F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel
```

Figure 235. Exit Display

Note: To bypass the Exit display, type FILE on the SEU command line and press a positional function key (Enter, Page Up, Page Down, F19, or F20).

2. Press Enter to process the changes to the member, exit from SEU and return to the Work with Members Using PDM display.

Appendix A. Using SEU in the System/36 Environment

This appendix describes how to use AS/400 SEU in the System/36 environment with either the Development Support Utility (DSU) or SEU procedure.

Calling AS/400 SEU with the DSU Procedure

If you are running the AS/400 system in the System/36 environment, you can call AS/400 SEU by using the System/36 DSU procedure. The parameters of the DSU procedure are interpreted to call AS/400 SEU in a predictable manner.

Figure 236 shows the syntax of the System/36 DSU procedure.

```
DSU─────────────────────────────────────────────────────────►
                                                        Required

                                                        Optional


      ┌►LIBRARY,library-name,type,format-member,,,,display-size
    ──┤
      └►EDIT,member-name,type,format-member,statement-length,─────────►

      ►──────►library-name, diagnosed-source-file-name,display-size

    (1) All parameters are optional. When parameters are omitted, commas
        must be entered to indicate the position of the omitted
        parameter when one or more additional parameters are entered in
        positions that follow the omitted parameter.
```

Figure 236. Syntax Diagram for DSU Procedure

The parameters of the DSU procedure are described in the order shown in the syntax diagram. The default value is listed first and is highlighted. The parameters are defined as follows:

Function parameter

Specify the function AS/400 SEU performs. This is a required parameter.

LIBRARY Specify this value to call the Work with Members Using SEU display.

EDIT Specify this value to call the Edit display for the member.

Library Name parameter

Specify the library that contains the library member to be edited or created. The default for this parameter is the current library (*CURLIB).

Type parameter

Specify the member type to be edited or created:

S or **SOURCE** Type S or SOURCE to specify a library source member. This is the default value.

P or **PROC** Type P or PROC to specify a library procedure member.

A Type A to specify a library source member that contains RPG auto-report specifications.

F Type F to specify a library source member that contains $SFGR display format S, H, and D specifications.

R Type R to specify a library source member that contains an RPG II program.

T Type T to specify a message source member.

W Type W to specify a source member that contains Work Stations Utility (WSU) statements.

If you select Function = EDIT and specify a member name:

- Type S, A, F, R, T, or W to specify a source member type. The system starts an edit session with the member in the source physical file QS36SRC.

- Type P to specify a procedure type. The system starts an edit session with the member in the source physical file QS36PRC.

If you select Function = LIBRARY, do the following:

- Type S to specify a source type. The system shows a list of source members from file QS36SRC.

- Type P to specify a procedure type. The system shows a list of procedure members from file QS36PRC.

Member Name parameter
Specify the name of the source or procedure member to be edited or created.

Format Member parameter
AS/400 SEU ignores this parameter. The DSU formats are not valid with AS/400 SEU.

Statement Length parameter
AS/400 SEU ignores this parameter. All members in the same file in AS/400 SEU have the same record length.

Diagnosed Source File parameter
AS/400 SEU ignores this parameter. The AS/400 system does not support the diagnosed source file.

Display Size parameter
AS/400 SEU ignores this parameter. AS/400 SEU uses the Change Session Defaults display to allow you to specify the display size as either 24 row x 80 column, or 27 row x 132 column.

Figure 237 on page 203 summarizes how the DSU procedure parameters map to the AS/400 STRSEU command parameters.

Figure 237. How DSU Parameters Map to the AS/400 STRSEU Parameters

DSU Parameter	AS/400 STRSEU Parameter
Function	• Function = LIBRARY causes the OPTION parameter of AS/400 SEU to be set to *SELECT. • Function = EDIT causes the OPTION parameter to be set to 2 (Edit).
Library	Maps to the library name of SRCFILE.
Type	Maps the file of SRCFILE to QS36SRC or QS36PRC.
Member name	Maps to the member name of SRCMBR.
Format member	Not used by AS/400 SEU.
Statement length	Not used by AS/400 SEU.
Diagnosed source file	Not used by AS/400 SEU.
Display size	Not used by AS/400 SEU.

Calling AS/400 SEU with the SEU Procedure

If you are running the System/36 environment, you can call AS/400 SEU by using the System/36 SEU procedure. The parameters of the System/36 SEU procedure are interpreted to call AS/400 SEU correctly.

Figure 238 shows the syntax of the System/36 SEU procedure.

```
 SEU────────────────────────────────────────────────────────────▶
                                                        Required

                                                        Optional


▶──member-name,type,format-member,statement-length,──────────────▶

▶──library-name,diagnosed-source-file

(1) All parameters are optional.  When parameters are omitted, commas
    must be entered to indicate the position of the omitted
    parameter when one or more additional parameters are entered in
    positions that follow the omitted parameter.
```
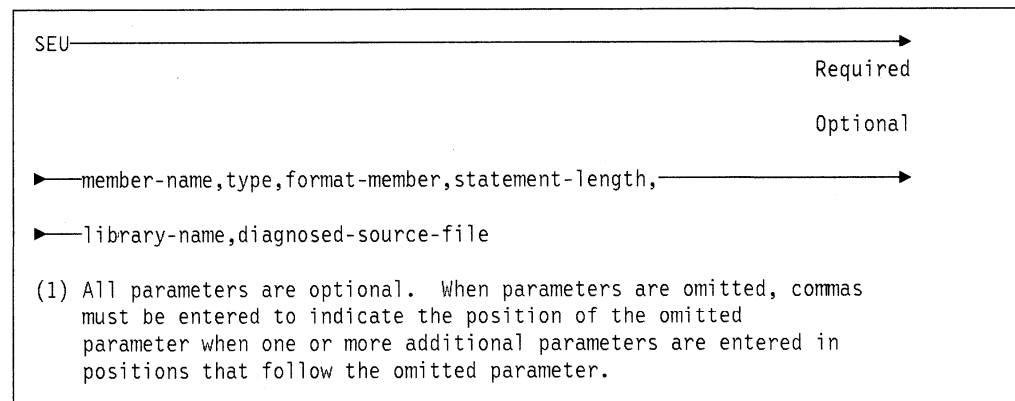
Figure 238. Syntax Diagram for SEU Procedure

The parameters of the SEU procedure are described in the order shown in the syntax diagram. The default value is listed first and is highlighted. The parameters are defined as follows:

Member Name parameter
    Specify the name of the source or procedure member to be edited or created. This is a required parameter.

Type parameter
    Specify the member type to be edited or created:

    S or **SOURCE** Type S or SOURCE to specify a source member type. This is the default value.

    P or **PROC** Type P or PROC to specify a procedure member type.

    A Type A to specify a library source member that contains RPG auto-report specifications.

F Type F to specify a library source member that contains $SFGR display format S, H, and D specifications.

R Type R to specify a library source member that contains an RPG II program.

T Type T to specify a message source member.

W Type W to specify a source member that contains Work Station Utility (WSU) statements.

If you specify a member name and type S, F, R, T, or W, the system starts an edit session with a member in the source physical file QS36SRC.

If you specify a member name and type P, the system starts an edit session with the source physical file QS36PRC.

Format Member parameter
AS/400 SEU ignores this parameter. The SEU formats are not valid with AS/400 SEU.

Statement Length parameter
AS/400 SEU ignores this parameter. All members in the same file in AS/400 SEU have the same record length.

Library Name parameter
Specify the library that contains the member to be edited or created. The default for this parameter is the current library (*CURLIB).

Diagnosed Source File parameter
AS/400 SEU ignores this parameter. The AS/400 system does not support the diagnosed source file.

Figure 239 summarizes how the System/36 SEU procedure parameters map to AS/400 STRSEU command parameters.

Figure 239. How System/36 Parameters Map to the AS/400 STRSEU Parameters

System/36 SEU Parameter	AS/400 STRSEU Parameter
Member name	Maps to the member name of SRCMBR
Type	Maps the file of SRCFILE to QS36SRC or QS36PRC
Format member	Not used by AS/400 SEU
Statement length	Not used by AS/400 SEU
Library	Maps to the library name of SRCFILE
Diagnosed source file	Not used by AS/400 SEU

Appendix B. Using SEU in the System/38 Environment

This appendix describes how to use AS/400 SEU in the System/38 environment.

Calling AS/400 SEU with the EDTSRC Command

If you are running the System/38 environment, you can call AS/400 SEU by using the EDTSRC command.

Figure 240 shows the syntax of the EDTSRC command.
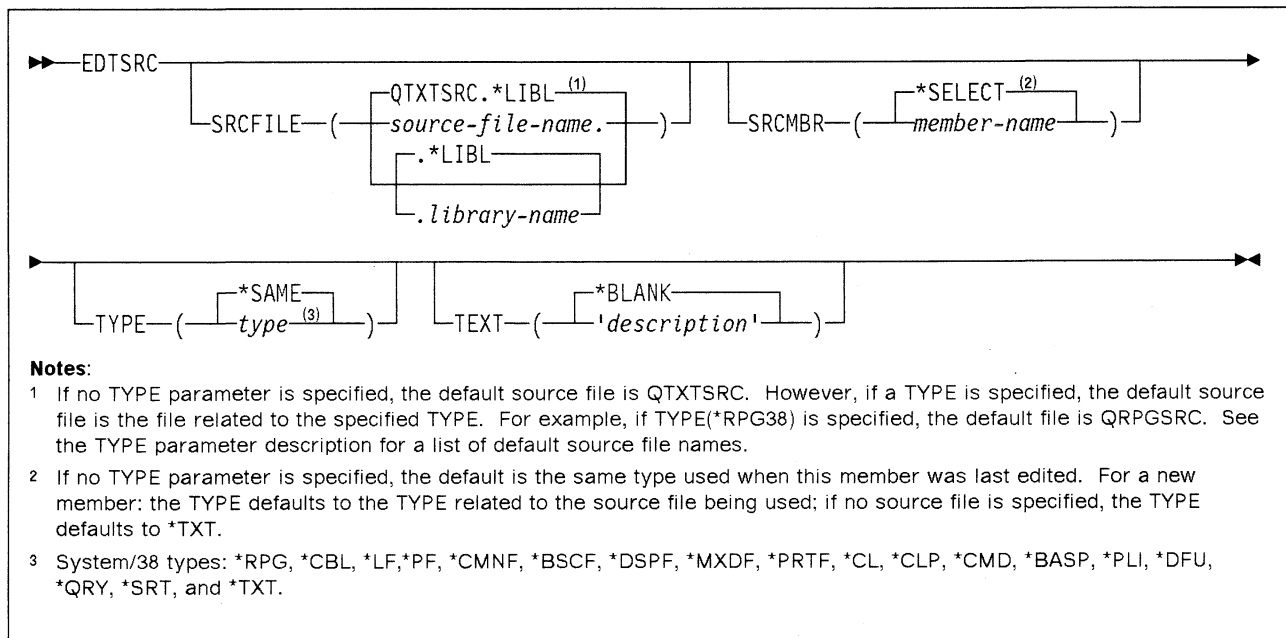
```
►►──EDTSRC─────────────────────────────────────────────────────────────────────────────────►
              │              ┌─QTXTSRC.*LIBL─(1)─┐     │          │        ┌─*SELECT─(2)─┐      │
              └─SRCFILE──(──┼─source-file-name.─┼──)─┘ └─SRCMBR──(──┴─member-name──┴──)─┘
                            │    ┌─.*LIBL──────┐ │
                            └────┴─.library-name─┘

►──────────────────────────────────────────────────────────────────────────────────────────►◄
     │        ┌─*SAME─┐   │    │        ┌─*BLANK────────┐   │
     └─TYPE──(──┴─type─(3)─┴──)─┘ └─TEXT──(──┴─'description'─┴──)─┘
```
Notes:

1 If no TYPE parameter is specified, the default source file is QTXTSRC. However, if a TYPE is specified, the default source file is the file related to the specified TYPE. For example, if TYPE(*RPG38) is specified, the default file is QRPGSRC. See the TYPE parameter description for a list of default source file names.

2 If no TYPE parameter is specified, the default is the same type used when this member was last edited. For a new member: the TYPE defaults to the TYPE related to the source file being used; if no source file is specified, the TYPE defaults to *TXT.

3 System/38 types: *RPG, *CBL, *LF,*PF, *CMNF, *BSCF, *DSPF, *MXDF, *PRTF, *CL, *CLP, *CMD, *BASP, *PLI, *DFU, *QRY, *SRT, and *TXT.

Figure 240. EDTSRC Command

The parameters of the EDTSRC command are described in the order shown in the syntax diagram. The default value is listed first and is highlighted. The parameters are defined as follows:

SRCFILE parameter

Specify the name of the source physical file that contains the member to be edited or created:

QTXTSRC This default value specifies QTXTSRC as the default source physical file if you do not specify a TYPE parameter. If you specify a TYPE parameter, the default value specifies the file related to the specified TYPE as the source file. For example, if you specify Type (*RPG), the default source file is QRPGSRC. See the TYPE parameter description for a list of default source files.

source-file-name This value allows you to specify the name of an existing source physical file. Optionally, you can qualify the source file name with the name of the library that contains the file. If you do not qualify the source file name, SEU uses the library list (*LIBL) to find the file.

SRCMBR parameter

Specify the name of the source file member to be edited or created:

*SELECT This default value directs SEU to display a list of all members in the file for you to edit, browse, print, or delete. On the list of members, you type the name of a member to be created or edited, search for a member name, change the type and text of an existing member, or change the TYPE and TEXT parameters for new members.

source-file-member-name This value allows you to specify a name for the member you want to create or edit.

TYPE parameter

Specify the type of source to be edited or created:

Warning: While type names in System/38 commands must be prefixed by an asterisk (*), the Operating System/400˚ (OS/400˚) system requires that the first character of a type name be alphanumeric. The OS/400 system converts System/38-style type names to ones that are valid for the AS/400 system by removing the asterisk and appending 38 to the type name.

If you specify *SAME for the member type, the conversion described above is done implicitly. For example, if you use the EDTSRC command to edit a member with a type of CLP and specify *SAME for the type, the OS/400 system does an implicit substitution of *CLP for *SAME, and then converts the type to CLP38.

Warning: On the EDTSRC command, the TYPE value begins with an asterisk (for example, *RPG or *DSPF). On the options displays, Work with Members Using SEU display, and Programmer menu, the asterisk is not used (for example, RPG or DSPF).

*SAME This default value directs SEU to use the same type as that used when this member was last edited. For a new member, the default value is the type related to the source file you are using. If a source file is not specified, the default value is *TXT.

type This value allows you to specify the type of source to use. Figure 241 lists the possible values you can specify as the type. It also lists the default source (the source file used if you do not specify a value for TYPE) and the source language for which the type is used.

Figure 241 (Page 1 of 2). Possible Values for the TYPE Parameter

Type Specified	Default Source File	Source Language
*TXT	QTXTSRC	80-position free-form text
*SRT	QTXTSRC	Reformat
*CL	QCLSRC	Control Language (CL)
*CLP	QCLSRC	CL Program
*CMD	QCMDSRC	CL Command Definition
*PF	QDDSSRC	DDS Physical File
*LF	QDDSSRC	DDS Logical File
*CMNF	QDDDSRC	DDS Communications File
*BSCF	QDDSSRC	DDS Binary Synchronous Communications File
*DSPF	QDDSSRC	DDS Display Device File

Figure 241 (Page 2 of 2). Possible Values for the TYPE Parameter

Type Specified	Default Source File	Source Language
*MXDF	QDDSSRC	DDS Mixed File
*PRTF	QDDSSRC	DDS Printer Device File
*RPG	QRPGSRC	RPG III
*CBL	QCBLSRC	COBOL
*BAS	QBASSRC	BASIC
*BASP	QBASSRC	BASIC Procedure
*PLI	QPLISRC	PL/I
*DFU	QUDSSRC	UDS Data File Utility
*QRY	QUDSSRC	UDS Query Utility

TEXT parameter

Specify a character string to be stored in the text field of a member:

*BLANK For a new member, this default value directs SEU to enter blanks in the *Text* field of the member. For an existing member, this default value does not change the *Text* field of the member.

description This value allows you to specify a character string that describes a member. You can specify a maximum of 50 characters. Enclose the string in apostrophes to use leading or trailing blanks.

Appendix C. Working with Double-Byte Character Sets

You can use SEU to enter and modify double-byte character set (DBCS) strings. This appendix describes how to:

- Enable DBCS in SEU
- Use DBCS with SEU displays and functions
- Use DBCS conversion with SEU.

This appendix deals only with the aspects of DBCS that are specific to SEU. For more information on working with DBCS data, refer to the *Data Management Guide*.

Enabling DBCS for SEU

To use DBCS with source members in SEU:

- You must be using a DBCS-capable work station

- The source file in which the member is located must be one that specifically allows DBCS data.

  When you create a source physical file by using the CRTSRCPF command, you must specify the IGCDTA(*YES) parameter to indicate that the file will contain members with DBCS data.

For more information about AS/400 commands, see the *CL Reference*. For more information about creating DBCS-capable source files, see the *Data Management Guide*.

Using DBCS with SEU Displays

You can enter DBCS data in certain prompts in several of the SEU displays. SEU performs special processing on DBCS data to maintain the appropriate placement of shift-out and shift-in characters.

Double-byte characters are physically larger than alphanumeric characters. In system displays, double-byte characters are twice as wide as alphanumeric characters.

For example, the alphanumeric version of the character **a** is shown as follows:

a

The double-byte version of this character is twice the size of its alphanumeric version:

a

Consider the width of double-byte characters when you calculate the length of a double-byte data field, because field lengths are still identified as the number of alphanumeric character positions used. DBCS-graphic character fields are the exception to this rule. The length of these fields is the number of double-byte characters, not the number of bytes.

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When using DBCS on SEU displays, keep in mind that if the member that you are editing or browsing is not contained in a source file that allows DBCS characters, then you cannot enter DBCS characters on any of the SEU displays while editing or browsing members with the Edit or Browse displays, or when saving your files with the Exit display.

The following sections describe the fields and displays in which you can enter DBCS data.

Work with Members Using SEU Display

You can enter DBCS data in the *Text for new member* and *Text* fields for each member on the Work with Members Using SEU display.

Subset Member List Display

You can enter DBCS data in the *Text* field on the Subset Member List Display.

Edit Display

You can enter DBCS data in the following fields on the Edit display:

- Data records
- SEU command line
- Fields in a prompt (depending on the prompt).

  Figure 242, Figure 243, and Figure 244 on page 211 show the prompts and
- associated fields that you can use to enter DBCS data into data records.

Figure 242. AS/400 Prompts and Fields in Which DBCS Data Can Be Entered

AS/400 Prompt	Field
RC	Constant, Comments
MD	Constant
MC	Constant data
CC	Comments
FT	Prompt
F*	Comment

Figure 243 (Page 1 of 2). System/38 and AS/400 Prompts, and Fields in Which DBCS Data Can Be Entered

System/38 and AS/400 Prompt	Field
**	Columns counter (unlabeled input field)
E	Comment
C	Factor1, Factor2, Comment
P	Constant-edit word
*	Comment (unlabeled input field)
A*	Comment (unlabeled input field)
LF	Functions
PF	Functions
DP	Functions

Figure 243 (Page 2 of 2). System/38 and AS/400 Prompts, and Fields in Which DBCS Data Can Be Entered

System/38 and AS/400 Prompt	Field
BC	Functions
CB	Area-A, Area-B
C*	Comment (unlabeled input field)
RH	Comments
RF	Comments
RR	Comments, Statement Set name
NC	Column Counter (unlabeled input field)

Figure 244. System/36 Prompts and Fields in Which DBCS Data Can Be Entered

System/36 Prompt	Field
H, F, G, U, E, L	Comments
T, I, J, 1A, O, OA, K	Comments
C	Factor1, Factor2, Comments
P	Constant-edit word, Comments
FD	Constant
FC	Constant data
CO	Area A, Area B, Comments
SH, SR, SF, AU, CC, FO	Comments
SC	Constant, Comments
AS	Both Comment fields
FF	Column counter (unlabeled input field)
MS	Message text
MH	User comments
C*	Column counter (unlabeled input field)

Note: On DBCS systems, the insert prompts and formats for the RPG II control specifications show a field for column 57 (the transparent literal field).

Additional Considerations

When SEU shows parts of a string of DBCS data (such as when DBCS data stretches beyond the length of a line on the display), SEU inserts temporary shift-out (θ_E) or shift-in (θ_F) characters and, if necessary, inserts a temporary DUP (*) character as a filler character. SOSI is shown in the sequence number area to remind you that the entire string of DBCS data can be viewed by using F19 = Left and F20 = Right keys. For example, the DBCS string θ_EK1K2K3θ_F is shown as follows when the edge of the display (indicated by |) comes between two double-byte characters (K2 and K3):

```
θEK1K2K3θF
θEK1θF|
```

When the edge of the display comes between the first and second byte of a double-byte character (for example, K2), both a temporary shift-in and a temporary DUP character (indicated here by *) are inserted as shown:

```
0ₑK1K2K30ₑ
0ₑK10ₑ*|
```

Do not move or delete these temporary characters or any control character that appears at the edge of the source field. If you do, SEU shows the line again without the changes you requested and indicates that you made an error. These considerations also apply to DBCS strings that are designated as DBCS-graphic. In source code shown by SEU, the shift characters are required.

Find/Change Options Display

You can enter DBCS data in the *Find* and *Change* fields of the Find/Change Options display.

Browse Display

You can enter DBCS data on the SEU command line of the Browse display.

Find Options Display

You can enter DBCS data in the *Find* field of the Find Options display.

Split Displays

When you are using DBCS in a split display, whether the options displays are DBCS-capable is dependent on the member in the top session. The options displays for both sessions are DBCS-capable if the member in the top session is DBCS-capable; if the member in the top session is not DBCS-capable, the options displays for both sessions are not DBCS-capable.

When you use the split Edit/Browse display to edit a member of a source file that is DBCS-capable, you can enter DBCS characters in the following fields:

- *Data record* field of the edit session of the split display

- Find parameters for the SEU FIND and CHANGE commands for the edit session of a split display

- Find parameters for the SEU FIND command for the browse session of a split display.

You can copy records from the browse member to the edit member. If SEU must truncate the copied records, SEU adds any required shift-in control characters.

If you edit a member from a source file that does not allow DBCS data, you can still browse a member, spooled file, or database file that contains DBCS data. SEU indicates possible errors if you copy records from the member with DBCS data into the member that does not allow DBCS data.

Note: SEU does not prevent you from copying records from a member that allows DBCS characters to a member that does not allow DBCS characters when you are in a split Edit/Browse display. SEU will do such copy operations as they are specified, and will allow you to save the member in a non-DBCS-capable file. The OS/400 system, however, will not recognize the data as DBCS. You may encounter difficulties the next time you

try to work with a member in a non-DBCS-capable file that contains records copied from a DBCS-capable member.

When you use either split display to browse a spooled file, data base file, or source file member that contains DBCS data, SEU can show DBCS data in the *Record* field.

For more information on working with split displays, see Chapter 8, "Splitting the Edit and Browse Displays."

Find Options and Find/Change Options Displays Called from Split Displays

If the member displayed in the top session is contained in a DBCS-capable file, you can do the following:

- You can enter DBCS data in the *Find* field on the Find Options display

- You can enter DBCS data in the *Find* and *Change* fields on the Find/Change Options display.

Exit Display

You can enter DBCS data in the *Text* field on the Exit display if the member you were editing was from a DBCS-capable file.

Using DBCS with SEU Commands and Functions

You can use double-byte characters with the following SEU functions:

- Find and change operations
- Saving members
- Printing.

Finding and Changing DBCS Strings

You can use DBCS data in the *Find* and *Change* fields of the Edit, Browse, Find Options, Find/Change Options displays and the Find and Change parameters of the SEU FIND and CHANGE commands. SEU processes the shift-control characters as follows:

- If the first character in the string to be found is a shift-out character, SEU removes that character from the string. If the last character in the string to be found (other than a blank) is a shift-in character, SEU removes that character from the Find string. SEU, however, matches this string only to characters that are enclosed within shift-control characters, or that are part of a longer string of characters enclosed by shift-control characters.

- If you want to search for a string that begins with a shift-out character or that ends with a shift-in character, enclose the string in apostrophes (') or quotation marks ("). In other cases, SEU searches for the string entered in the *Find* field or in the Find parameter.

- SEU treats shift-control characters in the change string the same ways as it treats them in the find string. If the find string begins or ends with shift-control characters, the change string must also begin or end with shift-control characters.

The examples in Figure 245 show how to find DBCS strings.

Figure 245. Finding DBCS Strings

To Find This String	Specify This String
K1K2	0_EK1K2$0_F$
0_EK1K2$0_F$	'0_EK1K2$0_F$'
K2$0_F$AB	0_EK2$0_F$AB
AB0_EK1	AB0_EK1$0_F$

Printing Source Data

On the Work with Members Using SEU and Exit displays, you can request the printing of a source member. When the source member contains DBCS data, print the data on a DBCS printer.

Additional Considerations

Consider the following when using DBCS data with SEU:

- On the Exit display, you can specify the name of the member, file, and library in which your edited member is to be stored. However, you cannot store changes you have made to a DBCS-capable file member in a non-DBCS-capable file member.

- If SEU truncates the stored records, it adds any required shift-in characters.

- On the Change Session Defaults display, the *Uppercase input only* field does not apply to DBCS data. Unlike many languages, where an A is considered functionally equivalent to an a, an uppercase DBCS Roman letter is always treated as a distinct character from the corresponding lowercase DBCS Roman letter.

DBCS Conversion

You can use DBCS conversion to enter DBCS data in SEU. DBCS conversion is an alternative to directly typing double-byte data. It lets you type an alphanumeric entry or double-byte character code and convert the entry or code to its related double-byte word. DBCS conversion is intended for Japanese character sets and its use is limited for application to other double-byte character sets.

To do DBCS conversion, position the cursor in a DBCS-capable field of the display. Place the cursor under a double-byte character, the shift-in character, or in a blank area between the shift-control characters, and press F18 = DBCS Conversion.

The system displays a prompt that allows you to insert or replace double-byte characters by typing a string of alphanumeric characters to be converted, the 4-character DBCS-code of a double-byte character, the 2- to 5-digit DBCS number of a double-byte character, or by selecting from a set of double-byte words.

To exit from DBCS conversion, press F18.

For a complete description of how to perform DBCS conversion, see the *Data Management Guide*.

When You Can Use DBCS Conversion with SEU

You can use DBCS conversion in SEU anywhere that DBCS data can be entered, except:

- When SEU is showing a prompt

- On the split Edit/Browse or Browse/Browse displays.

  You can, however, use DBCS conversion on the Find and Change parameters of the SEU FIND and CHANGE commands and the *Find* and *Change* fields of the Find/Change or Find Options display that is reached from a split Edit/Browse or a split Browse/Browse display, whichever is applicable.

For more information, see "Using DBCS with SEU Displays" on page 209 and "Using DBCS with SEU Commands and Functions" on page 213.

Additional Considerations

You can use DBCS conversion if the line has sufficient space available to:

- Insert characters equal to the number of characters from the last character that is on the line (that is not blank) to the right edge of the display

- Replace characters equal to the number of characters from the cursor position (including the character marked by the cursor) to the end of the DBCS portion of the field.

If you try to insert or replace a string of characters when you do not have sufficient space on a line, SEU sends a message. If you ignore the message and press Enter again, SEU truncates characters from the right side of the string.

Appendix D. Recovering from Errors

This appendix describes methods you can use to recover from errors and problems that can occur while you are in SEU.

Methods Used

Use one of the following methods to recover from problems:

- Cancel the edit. If you change the wrong records or have other problems, press F3 (Exit) to reach the Exit display. On the Exit display, type N (No) for the *Change/create* field, or press F3=Exit to leave SEU. SEU does not save the changes.

- Get a fresh copy of specified records. If you delete or change the wrong records, use the Browse/Copy Options display to copy the original records from the source member to the edit member.

- Remove changes you have typed in but have not entered. Press F5=Refresh or Clear on the Edit display to remove these changes.

- Recover from system failure. If a system failure occurs when you are using SEU, the next time you edit the source member, SEU presents the Recover SEU Member display, as shown in Figure 246.

```
                          Recover SEU Member

 Member  . . . . :   MEMBNAME01

 File . . . . . . :   FILENAME01
  Library . . . :     LIBRNAME01

 The previous edit session for the member above ended abnormally.

 Select one of the following:

       1. Recover changes made in previous edit session
       2. Discard changes made in previous edit session
          and start a new session




 Selection
    1

 F12=Cancel
```

Figure 246. Recover SEU Member Display

Select option 1 (Recover changes) and the Edit display appears with the recovered member.

Note: Although SEU always attempts to recover the member after a system failure, after certain situations, such as power failures, the member may not be recoverable.

217

Select option 2 (Discard changes) and SEU discards the interrupted edit session. The Edit display appears with the member loaded from the library file. Press F12 = Cancel to return to the previous screen.

Appendix E. SEU Problem Analysis

This appendix describes the procedure you can follow to determine the cause of a problem while using SEU.

If a problem occurs while you are using SEU, the cause of the problem may not be immediately apparent. An error in your application, in system operation, or in SEU could be causing the problem. The problem analysis procedure helps you isolate the cause of your problem and tells you what to do to solve the problem. If you need to call for service to solve the problem, this procedure tells you what information you should collect for your service representative so the problem can be fixed in the shortest possible time.

Using the Problem Analysis Procedure

The problem analysis procedure is arranged as a sequence of questions to which you answer Yes or No. Based on your answer, you are directed to another question or given a recommendation for action. Start at the beginning of the procedure and follow the question-and-answer sequence until you isolate your problem.

Question and Answer Sequence

```
001
```

Did you receive a message such as "file not found", "STRSEU command not found", or "operator needs to do something to a device"?
Yes   No
```
      002
```

Continue at Step 004 on page 220.

```
003
```

Check that your library list (*LIBL) contains the correct libraries. Take the actions indicated by the message and save any automatic dumps printed as a result of the message. If the message indicates operator action, call the appropriate IBM representative at your location. If the action requires you to call for help, see "Calling for Help" on page 223.

When you examine a message for indicated actions, check the following:

— Online help information. Online help information describes the message in detail. To get the online help information, call up the message on your display by using the Display Message (DSPMSG) command, position the cursor under the message, and press Help.

— Other messages referred to in the online help information. The information in these messages could help you solve your problem.

If this procedure fails to solve your problem, go to "Calling for Help" on page 223.

```
┌─────┐
│ 004 │
└─────┘
```

(From step 002)

Are other system users having problems communicating with the system?
Yes   No
  │   │
  │   ┌─────┐
  │   │ 005 │
  │   └─────┘
  │
  │   Call the appropriate IBM representative at your location and describe the
  │   problem.
  │
┌─────┐
│ 006 │
└─────┘

Is this the first time you have ever run the job or function, or the first time you
have run the job or function after making changes to it?
Yes   No
  │   │
  │   ┌─────┐
  │   │ 007 │
  │   └─────┘
  │
  │   You have a system problem. Call the appropriate IBM representative at
  │   your location and describe your problem.
  │
┌─────┐
│ 008 │
└─────┘

Are you having a nonprogramming problem, such as a spooled output that is not
produced or a device that is not working?
Yes   No
  │   │
  │   ┌─────┐
  │   │ 009 │
  │   └─────┘
  │
  │   Continue at Step 011.
  │
┌─────┐
│ 010 │
└─────┘

You have a system problem. Call the appropriate IBM representative at your
location and describe your problem.

───

```
┌─────┐
│ 011 │
└─────┘
```

(From step 009)

Has the Input Inhibited indicator stayed on longer than expected?
Yes   No
  │   │
  │   ┌─────┐
  │   │ 012 │
  │   └─────┘
  │
  │   Continue at Step 016 on page 222.
  │
┌─────┐
│ 013 │
└─────┘

Press Error Reset. If the indicator does not turn off, do one of the following:

— Press System Request. When the System Request menu appears, create a
   second interactive job.

(Step **013** continues)

013 (continued)

— Go to another work station and sign on to create a second interactive job.

Enter the Work with Active Jobs (WRKACTJOB) command to request the list of active jobs. On that display, look for a job entry that has the same job name as the work station with the problem. If two entries are shown, look at both. Record the job numbers for later use.

Does the job entry indicate a status of HELD?
Yes No

> **014**
>
> You could have a loop or wait condition. To gather helpful information and cancel the job, do the following:
>
> — Enter the Display Job (DSPJOB) command and choose the following options for the command parameters:
>
>   • Job name parameter: Specify the work station ID for the failing job.
>
>   • User name parameter: Specify the user name as the system recognizes that name.
>
>   • Job number parameter: Type the job number you recorded earlier.
>
>   • Output parameter: Type *LIST to print your job information for later use.
>
> — When the Display Job menu appears, select option 11 (Program invocation stack). When you press Enter, the invocation stack for the failing job is shown.
>
>   The invocation stack tells you which instruction your program or application is currently processing. When you compare this information with your original listing, you can determine why the loop or wait occurred.
>
> — Press F3 to return to the command entry display.
>
> — Enter the End Job (ENDJOB) command to cancel the failing job. For example,
>
>   ENDJOB JOB(008229/QUSER/WS1)
>
>   Check with the appropriate IBM representative at your location to see that the job log for the failing job is printed.
>
>   The job log provides a record of each program action and any messages resulting from these program actions.
>
>   **Note:** Your job log should be printed if you use the default value for the Log Limit (LOGLMT) parameter on the ENDJOB command. However, if your job description specifies a 0 for the message level in the LOG parameter, the job log is not printed.
>
> — Examine your job log, invocation stack, and program listing to determine why the problem occurred.
>
> If this procedure fails to solve your problem, see "Calling for Help" on page 223.

015

(Step **015** continues)

015 (continued)

To release the job, type 6 in the input field beside the job name.

| **016** |

(From step 012)

Is your program producing unexpected results?
Yes   No

| **017** |

Continue at Step 019.

| **018** |

Do the following to determine why your program is producing unexpected results:

— Get a listing of your program.

— Get the job log for your job by choosing LOG(*LIST) when you sign off. For example,

```
SIGNOFF LOG(*LIST)
```

Your job log is written to a spooled output file. The job log provides a record of each job action and each message received by your job in the order they occurred.

— Use the OS/400 debugging functions, such as traces and breakpoints, to isolate specific problems in operation. OS/400 debugging functions are described in the manual for the specific System/36-Compatible, System/38-Compatible, or AS/400 language that you are using.

If this procedure fails to solve your problem, see "Calling for Help" on page 223.

| **019** |

(From step 017)

You have a problem that requires additional assistance. See "Calling for Help" on page 223.

Documenting the Problem

To report problems for IBM licensed products, use the Authorized Program Analysis Report (APAR). These problems must be reproduced at the APAR processing center to be corrected.

The following list gives the requirements for submitting an APAR:

1. Use the APAR form to report program problems found in IBM licensed products.

2. Report each problem on a separate APAR form.

3. Describe and submit all problems to allow testing and repair on an unmodified IBM program.

4. Submit all data, documentation, programs, and procedures required to produce the same error at the APAR processing center. Submit the information on diskette if possible. Avoid submitting sensitive customer information by substituting sample data that produces the same error.

5. Replace any local change applied with an APAR processing center PTF. This includes any user or local IBM change.

6. Do not use the APARs for comments, suggestions, or improvements. For these situations, submit a Product-and-Support Requirements Request form obtained through IBM Systems Engineering and Marketing.

Calling for Help

If you require additional assistance, take the following steps:

1. Cancel the failing job and print the job log. Sign off your work station and choose *LIST for the OUTPUT parameter. For example,

    SIGNOFF LOG(*LIST)

    Call the appropriate IBM representative at your location to verify that the job log was printed.

2. Examine the job log and any other available information on your job to determine why your problem occurred.

Bibliography

The manuals below are listed with their full titles and base order numbers. When these manuals are referred to in the text, a shortened version of the title is used.

For more information, refer to the following IBM publications:

- *Application Development Tools: Programming Development Manager User's Guide and Reference*, SC09-1339
  Short title *PDM User's Guide and Reference*

- *Application Development Tools: Screen Design Aid User's Guide and Reference*, SC09-1340
  Short title *SDA User's Guide and Reference.*

- *Data Description Specifications Reference*, SC41-9620
  Short title *DDS Reference*

- *Data Management Guide*, SC41-9658
  Short title *Data Management Guide*

- *Languages: BASIC User's Guide and Reference*, SC09-1157
  Short title *BASIC User's Guide and Reference*

- *Licensed Programs and New Release Installation Guide*, SC41-9878
  Short title *Licensed Programs and New Release Installation Guide*

- *Programming: Control Language Programmer's Guide*, SC41-8077
  Short title *CL Programmer's Guide*

- *Programming: Control Language Reference*, SC41-0030
  Short title *CL Reference*

- *Publications Guide*, GC41-9678
  Short title *Publications Guide*

- *Security Reference*, SC41-8083
  Short title *Security Reference*

- *System Operator's Guide*, SC41-8082
  Short title *Operator's Guide*

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