Full Screen Editor for NOS/VE





Tutorial/Usage

60464015

Common Parameters

Parameter Name	Values
BOUNDARY (B)	LINE (LINES or L)
	STREAM (S)
COLUMN (COLUMNS or C)	integer
	CURRENT (C)
	FIRST_MARK (FM)
	LAST_MARK (LM)
	MARK (M)
	MAXIMUM (MAX)
LINE (LINES or L)	integer
	line identifier (modset.sequence)
	ALL (A)
	CURRENT (C)
	FIRST (F)
	FIRST_MARK (FM)
	FIRST_SCREEN (FS)
	LAST (L)
	LAST_MARK (LM)
	LAST_SCREEN (LS)
	MARK (M)
	SCREEN (S)



Full Screen Editor for NOS/VE

Tutorial/Usage

This product is intended for use only as described in this document. Control Data cannot be responsible for the proper functioning of undescribed features and parameters.

Publication Number 60464015

SCL Manual Set:



🔲 ind

indicates that the manual is available online.



indicates a reading sequence.

©1984, 1985 by Control Data Corporation. All rights reserved. Printed in the United States of America. This manual is Revision C, printed December 1985. It reflects NOS/VE Version 1.1.3 at PSR level 644. New features documented in this revision are:

- Addition of the SET_EPILOG command.
- Removal of the EPILOG parameter from the EDIT_FILE and EDIT_ LIBRARY commands.
- Addition of POSITION_BACKWARD, POSITION_FORWARD, LIST_ BACKWARD, LIST_FORWARD, LIST_LINES, LOCATE_ALL, LOCATE_NEXT, LOCATE_STRING, MARK_BOX, SET_ PARAGRAPH_MARGINS, FORMAT_PARAGRAPHS, CENTER_ LINES, and EXCHANGE_SCREEN_WIDTH subcommands.
- Addition of the \$PARAGRAPH_MARGINS function.
- Addition of a section on calling the editor from within a procedure.
- Addition of three new terminal types, the CDC722-30, the Zenith Z29, and the IBM (or compatible) PC with Connect.

Change bars reflect the latest revision level.

Revision	System Version	Date	
Α	1.1.1	July 1984	
В	1.1.2	March 1985	



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About This Manual

The CONTROL DATA® Network Operating System/Virtual Environment (NOS/VE) enables you to edit files with the Full Screen Editor (FSE) Utility. FSE enables you to edit files or Source Code Utility (SCU) decks both page by page (screen mode) and line by line (line mode).

This manual explains how to access and use FSE in both screen mode and line mode. Examples and illustrations help you with each step.

Audience

This manual is intended for you if you are familiar with the interactive use of NOS/VE. Some knowledge of how to manipulate NOS/VE files is helpful but is not required. All examples use the CDC[®] Viking 721 terminal; knowledge of this terminal is helpful but not essential. For information on the interactive use of NOS/VE, refer to the System Command Language (SCL) System Interface manual.

Organization

This manual is one in a set of manuals that describe the System Command Language (SCL). The organization contains brief descriptions of some of the SCL manuals, followed by a detailed description of this manual.

SCL Manuals

The following manuals form the core of the SCL manual set.

- SCL Language Definition
- SCL System Interface
- Full Screen Editor
- SCL Source Code Management
- SCL Object Code Management
- SCL Advanced File Management
- Screen Formatting
- SCL Quick Reference

SCL Language Definition defines the complete SCL language specification. It describes SCL language elements, expressions, variable management, command stream structuring, language-dependent commands and functions, procedure creation, and command list manipulation.

SCL System Interface describes the basic system interface to NOS/VE using SCL. It describes system access, interactive processing, access to online documentation, file and catalog management, job management, tape management, and terminal attributes.

Full Screen Editor describes the text editor available on NOS/VE. Organized in two parts, the manual first describes the basics of editing in screen mode and then more comprehensively describes the editor. Topics included are creating files, replacing text, searching, undoing, creating procedures, and so on.

SCL Source Code Management describes the NOS/VE Source Code Utility, a development tool used to organize and maintain libraries of ASCII source code.

SCL Object Code Management describes the storage and manipulation of units of object code within NOS/VE.

SCL Advanced File Management Usage describes three file management tools: Sort/Merge, the keyed-file utilities, and the File Management Utility (FMU). Sort/Merge sorts and merges records; FMU reformats record data; and the keyed-file utilities copy, display, and create keyed files (such as indexed-sequential files).

Screen Formatting describes the DEFINE_TERMINAL command and the statements used to define terminals for use with full screen applications such as the Full Screen Editor.

SCL Quick Reference provides a quick reference for the SCL commands, functions, and statements described in the SCL manual set.

Full Screen Editor

Full Screen Editor is divided into two parts. Part I, Tutorial, describes the basics for the novice user.

Chapter 1 introduces the editor and its capabilities.

Chapter 2 introduces the Viking 721 terminal, which is used exclusively for all examples.

Chapter 3 describes the basics of screen editing such as creating a file, and searching, replacing, and moving around in the file.

Part II, Usage, is for the more experienced user. It describes all the editor capabilities and subcommands. This information is grouped by the functions they perform rather than alphabetically by subcommand names. The subcommand names are listed alphabetically on the inside back cover.

Chapter 4 describes concepts that you will need to know before reading the rest of part II.

Chapter 5 describes some common editing functions (such as starting the editor, inserting, deleting, replacing, and undoing), all of which contain a complete description of the topic.

Chapter 6 describes the function keys and how to change the definitions of the programmable function keys.

Chapter 7 describes how to set various editor options to customize how you use the editor.

Chapter 8 describes how to edit Source Code Utility (SCU) decks.

Chapter 9 describes how to create procedures to be used with the editor and lists special functions to be used within procedures. It also describes how to call the editor from within a procedure.

Chapter 10 describes the editor's prologue and epilogue files.

Chapter 11 describes how to use the editor in screen mode on other supported terminals.

Appendix A contains definitions of terms used in this manual as well as terms not used in this manual, but helpful in understanding NOS/VE.

Appendix B lists the ASCII character set supported by NOS/VE.

Appendix C is a listing of the subcommand strings composing the various FSE functions.

Appendix D describes the Viking 721 terminal settings needed to ensure proper operation of FSE.

Conventions

Throughout, this manual uses representations of actual keys to show you when you should press a key. For example,



is represented as



and



is shown as just



When two keys are shown side by side, it means you should hold down the first key while pressing the second. For example,

means hold down ((the 721's shift key) and press (CLEAR).

Sometimes you have to press more than one key in succession to execute a certain function. This is indicated with a + sign. For example,

CLEAR) + (NEXT)

means hold down and press CLEAR : afterwards press NEXT).

Vertical bars in the margin indicate changes or additions to the text from the previous revision.

A dot next to the page number indicates that a
significant amount of text (or the entire page) has changed from the previous revision.

Some function keys have labels on both the keyboard and the screen. For example, the key labeled only **F1** on the keyboard has the following screen label:

F1 MARK

The screen label is used in this manual.

The keys are sometimes combined. For example, to page backward on the DEC VT100 terminal, you would use:

(SHIFT) F1 BKW + (RETURN)

Within text, cursors are shown as:

8

For example in line mode editing, the cursor is shown as:

The cursor

In screen mode examples, the cursor is shown as:



The subcommand descriptions within this manual follow a standard, concise format. The format is described in chapter 4 of this manual and is the same format used for other SCL commands (refer to the SCL Language Definition manual for detailed information). In descriptions of subcommands or parameters, valid abbreviations are shown in parentheses.

Within the formats shown in this manual, UPPERCASE characters represent reserved words; they must appear exactly as shown. Lowercase characters represent names and values that you supply.

Required names and parameters are in **boldface** type. Optional parameters are shown in *italics*.

All numbers are assumed to be decimal unless otherwise noted.

Interactive examples are shown in a type font that resembles computer output. User input within interactive examples is shown in blue.

Additional Related Manuals

For detailed information on diagnostic messages refer to the NOS/VE Diagnostic Messages manual, publication number 60464613, or its online counterpart.

For detailed hardware descriptions of the Viking 721 terminal, refer to the 721-10/20/30 Hardware Reference Manual, publication number 62940020, and the Control Data 721-21/31 Owner's Manual, publication number 62950101.

Ordering Manuals

Control Data printed manuals are available through Control Data sales offices or through:

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Submitting Comments

The last page of this manual is a comment sheet. Please use it to give us your opinion on the manual's usability, to suggest specific improvements, and to report technical or typographical errors. If the comment sheet has already been used, you can mail your comments to:

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Please indicate whether or not you want a written response.

Additionally, if you have access to SOLVER, an online facility for reporting problems, you can use it to submit comments about the manual. When entering your comments, use SC8 as the product identifier.



This chapter is an overview of some of the basic capabilities of the Full Screen Editor.



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Capabilities

Using the NOS/VE Full Screen Editor on most video display terminals, you can display a page of text on the screen, move through the file page by page, and make most of your changes with the touch of a key. This is called screen editing.

If you are working on a printing terminal, you will use the other type of editing the editor is capable of, line editing. In contrast to screen editing, you see only a limited number of lines at any one time. Line editing is also available for use on video display terminals.

This manual describes how to edit files. Most of the features apply to both files and Source Code Utility (SCU) decks. Information specific to decks is discussed in chapter 8, Editing SCU Decks.

Using the editor you can:

- Display and edit more than one file at a time.
- Search for and replace text according to the column in which the text appears.
- Move or copy parts of a file to the same or another file.
- Undo changes you've made to a file.
- Search for and replace words.
- Create procedures containing both editor subcommands and SCL commands.
- Format text.



When you make changes using the editor, the editor uses a copy of your file, changes it, and then rewrites your file. When the editor works with a copy of your file, it automatically deletes all blanks after the last visible character in each line. For most users, this does not affect the use of the file. In fact, it can actually decrease the file size (depending on how many blanks you had at the end of lines in your file). Some utilities, however, may use a specific file structure that attaches significance to blanks at the end of lines. If you need to edit these files, you need to be aware of the requirements of the file and then see if the Full Screen Editor can meet those requirements before editing. Examples of such files are the bound version of manuals that are called by the EXPLAIN command and files used by Sort/Merge.

This chapter introduces the Viking 721 terminal and lists other supported terminals.



Throughout this manual, examples and explanations apply to the Viking 721 terminal.



The Viking 721 terminal must be set up correctly to log in to NOS/VE and use the editor. Appendix D shows how the terminal should be set up; however, if your terminal has been used with NOS/VE before, try using it without changing any of the settings.

Key	Meaning
(NEXT)	Return, carriage return, or new line.
•	Backspace.
\bigcirc	Shift.
\bigcirc	Shift lock.
	Tab forward.
—	Tab backward.
$\begin{pmatrix} \mathbf{a} \\ \mathbf{a} $	Cursor movement.

The Viking 721 key symbols mean:

The locations of these keys are:



The editor, in screen mode, supports several other terminals. These terminals are:

- CDC 722
- CDC 722-30
- DEC VT100 or equivalent
- IBM PC or equivalent
- Zenith Z19
- Zenith Z29
- Heathkit H19

If you are using one of these terminals in screen mode, refer to chapter 11, Using Other Terminals in Screen Mode, whenever needed to determine what keys to use to perform the functions described in the following chapters. Information on how to create a file that allows you to use other terminals for screen editing can be found in the Screen Formatting manual.



The Basics

This chapter describes how to perform the basics of screen mode editing on a Viking 721 terminal using function keys and a few subcommands. For comprehensive descriptions of these functions, refer to part II, Usage.

Getting Started
Creating a File
Moving around the Screen
Changing the Screen Content
Moving to the End of a Line
Moving around within the File
Increasing the File Length
Moving to the First or Last Line
Moving from Screen to Screen
Entering Subcommands
Getting Help
Deleting
Deleting Characters
Deleting Lines
Deleting Words
Deleting Blocks of Empty Lines
Inserting
Inserting Characters
Inserting Lines
Inserting Words
Inserting Blocks of Empty Lines
Searching 3.39
Sourching for a Tort String 220
Searching for the Next Occurrence
Searching for All Occurrences
Marking
Copying
Moving
Undoing
Stopping an Editing Session







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Getting Started

To get the editor started, enter the EDIT_FILE command; its format is:

```
EDIT_FILE (EDIF)
FILE=file
INPUT=file
OUTPUT=file
PROLOG=file
STATUS=status variable
```

The FILE (F) parameter specifies the name of the file you want to edit and is required. If the file you specify does not exist or is busy, a new file is created. The other parameters are described in part II, Usage.

For example, to edit the permanent file ZAP, which already exists, enter either:

```
/edit_file file=$user.zap
    or
/edif $user.zap
```

The following prompt appears:



This is the line mode prompt. At this point, you can enter any FSE subcommands to edit your file in line mode or you can enter screen mode. The rest of part I, Tutorial, describes screen mode.



To start screen mode, enter the ACTIVATE_SCREEN subcommand specifying the terminal model you are using. The format of the subcommand is:

ACTIVATE_SCREEN (ACTS) MODEL=name STATUS=status variable

The MODEL (M) parameter specifies the terminal model you are using. You may set the terminal model with the SET_TERMINAL_ATTRIBUTES command and include it in your user PROLOG so you won't need to set it again. If it has not been specified using SETTA or on a previous ACTIVATE_SCREEN or SET_SCREEN_OPTIONS subcommand, this parameter is required. Valid entries are:

Entry	Terminal
CDC721	CDC Viking 721
CDC722	CDC 722
CDC722_30	CDC 722-30
VT100	DEC VT100
PC_CONNECT	IBM PC or equivalent
Z19	Zenith Z19 or Heathkit H19
Z29	Zenith Z29
For example, to s	pecify the Viking 721 terminal, enter:

ef/activate_screen model=cdc721

A screen appears showing the beginning of your file. In the following figure, permanent file ZAP appears as:

File: ZAP Lines 1 Thru 25 Size 61 This is a text file.
It is supplied as a sample file.
Fozy score and seven
THIS LINE USES ALL CAPITAL LETTERS.
this line contains no capital letters.
This line is short.
This line is used to show the capabilities of the F4 key.
A file can contain all kinds of information.
Information Like:
o Text
o Data
o Programa
o Anything else you can put in a file. Unmrk Boxmk LAST endlin 71 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F5 locall

GETTING STARTED

The format of each screen displayed by FSE is:

2 3 <u>File: ZAP Lines 1</u> Thru 25 Size 61 (4) This is a text file. It is supplied as a sample file. Fozy score and seven THIS LINE USES ALL CAPITAL LETTERS. this line uses no capital letters. This Line is short. This line is used to show the capabilities of the F4 key. (\mathbf{S}) A file can contain all kinds of information. Information Like: Text ۵ 0 Data o Programs a Anything else you can put in a file. (6) 🛛 Unmrk Boxmk LAST 80/132 endlin locnxt F1 MARK F2 Chrmk F3 F1RST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall

① Subcommand Line	The line on which you enter subcommands. To move the cursor to this line, press (HOME); to return to the file, press (NEXT).
② Message Line	The line on which FSE displays messages. These messages might be informative messages, error messages, or prompts asking you to do something.
③ File Header	The line containing the file name, the lines displayed on the screen, and the file size.

4 Cursor	Your exact position in the file.
(5) File Text	The contents of the file.
6 Programmable Function Key Prompts	The labels currently assigned to function keys F1 through F8. These keys are described later in this manual.

To get more editor status information, use the DISPLAY_EDITOR_ STATUS subcommand described in chapter 7, Selecting Editor Options.

Creating a File

To create a file, start the editor with the EDIT_FILE (EDIF) command specifying the name of a file that does not exist. A screen appears with the name of the file displayed.

Create permanent file BERT on your USER catalog by entering:

/edif \$user.bert

(assuming file BERT does not already exist).

Enter the ACTIVATE_SCREEN subcommand to start screen mode editing on a Viking 721 terminal.

ef/activate_screen model=cdc721

The following screen appears.

file: BENT	Emoty				
CIEES BLA	Profile 2				
Unmrk	Boxmk L	AST endli	n	locn	xt 80/132
F1 MARK F2	Chrmk F3 F	IRST F4 middl	e F\$ UNDO F6	END F7 LOCA	TE F8 locall

The editor positions the cursor on the first line. You can then type in whatever you want to appear in the file. Each time you press the **(NEXT)** key, the editor positions the cursor at the beginning of the next line. At the same time, it updates the file size on the file header line. Enter a few lines of text into file BERT, pressing the **(NEXT)** key at the end of each line. For a sample of what to enter, refer to file ZAP shown earlier. Your file will look similar to:

Fozy score	and seven	mple file.		

File BERT is now five lines long (blank lines are counted when they are at the beginning of the file or are surrounded by text).

Moving around the Screen

To move the cursor around the screen, use the arrow keys on the keypad to the right of the main keyboard. The numbers on the keys are 2, 4, 6, and 8 and appear as:

The direction which the arrow points corresponds to the direction the cursor moves when the key is pressed. You do not have to hold down the key to use these keys. Also, if you hold the arrow keys down they automatically repeat. You can use the arrow keys to move the cursor off the screen to the left and the right. The cursor reappears on the opposite side of the screen. Try moving the cursor up and down. If you move the cursor off the screen, it will always return.

Changing the Screen Content

If you want to change what's on the screen, use the cursor positioning (arrow) keys to move the cursor to the place where you want to make the change and type over what is there. The change is made as you type.

For example, to correct the errors in the file BERT, position the cursor on the character in error:

Fozy score and seven

Press:

u

The following results:

Fouy score and seven

The z is replaced with u and the cursor moves one position to the right (in this example, positioning the cursor at the y).

Press:

r

The result is:

Four score and seven

CHANGING THE SCREEN CONTENT

Practice using the character keys, the cursor positioning keys, and the **(NEXT)** key by filling up the first 23 lines of file BERT with text.

File: BERT Lines 1 Thru 23 Size 23 This is a text file.
It is supplied as a sample file.
Four score and seven
THIS LINE USES ALL CAPITAL LETTERS.
this line contains no capital letters.
This line is short.
This line is used to show the capabilities of the F4 key.
A file can contain all kinds of information.
Information like:
o Text
o Data
0 Programs
Unmrk Boxmk LAST endlin F1 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall

File BERT is used in the examples that follow to explain other concepts. You can use the file you have created to practice what you learn.
Moving to the End of a Line

To move the cursor to the end of a line, you do not need to hold down the cursor positioning key until it reaches the end of the line. Use F4 endlin instead. This moves the cursor to the end of the current line. The F4 endlin key is the function key labeled F4 that is located in the top row of the keyboard. It also is shown on the screen as the fourth highlighted (inverse video) box.

For example, to move the cursor in file BERT to the end of the following line

This line is used to show the capabilities of the F4 key.

position the cursor on the line and press:



The result is:

This line is used to show the capabilities of the F4 key.

Moving around within the File

In screen mode, the editor automatically increases the file's length as you add lines to the file. The editor also allows you to easily move around within the file once the file is too large to fit on the screen. To move around within the file you use function keys. Some function keys are located above the regular keys; others are located on the left and right. These keys enable you to:

- Move through the file one screen at a time.
- Move quickly to the first or last line of the file.

Increasing the File Length

Once you have entered the last line on the screen into a file and pressed the **(NEXT)** key, the editor automatically repositions the lines displayed on the screen so you can continue entering lines. The editor positions the last line on the screen (the 25th line on the Viking 721 terminal) in the middle of the screen. You then have half the screen on which to enter lines.

For example, enter into file BERT a blank line as line 24 and the following line as line 25:

o Anything else you can put in a file.

When you press **(NEXT)** at the end of line 25, the editor displays the following screen:

Text						
Data						
Programs						
Anything el	se you can	put in a fil	.e.			
	Programs Anything el	Programs Anything else you can	Programs Anything else you can put in a fil	Programs Anything else you can put in a file.	Programs Anything else you can put in a file.	Programs Anything else you can put in a file.

Each time you fill up the screen, the same process takes place. Once you get to the bottom of the screen and press (NEXT), the editor repositions the file.

Enter lines into file BERT until the file size is at least 60 lines. This will allow you to try the examples that follow. The following text can be entered.

This is the second screen of file BERT.

See the top line of this screen?

It was the bottom line of the first screen.

0

Moving to the First or Last Line

If you are in the middle of a file and want to get back to the first line, press the function key:

F3 FIRST

The screen then shows the first lines of the file.

If you need to get to the last line of the file, press:

(∠) F3 LAST

This positions the cursor on the last line and vertically centers the line on the screen.

Try moving to the beginning and end of file BERT.

Moving from Screen to Screen

To move through your file screen by screen, use the **FWD** and **BKW** keys located on the left side of the regular keyboard. **FWD** moves you forward one screen. **BKW** moves you backward one screen.

For example, you're at the following screen in file BERT.

File: BERT Lines 1 Thru 25 Size 61 This is a text file. It is supplied as a sample file, Four score and seven THIS LINE USES ALL CAPITAL LETTERS. this line contains no capital letters. This line is short. This line is used to show the capabilities of the F4 key. A file can contain all kinds of information. Information like: ø Text D Data Programs n. Ö Anything else you can put in a file. LAST Locnxt 80/132 Unmrk Boxmk endlin F1 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall

To move forward to the next screen, press:

(FWD)

The next screen appears. Notice that the last line of the previous screen is now the top line of this screen.

Lines 25 Thru 49 Size 61 File: BERT Anything else you can put in a file. Ö This is the second screen of file BERT. See the top line of this screen? It was the bottom line of the first screen. 2 b C đ é ł à h If you press FWD again, this line will appear at the top of the next screen. Locnxt 80/132 Unmrk Boxmk LAST endlin F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 Locall F1 MARK

To move back to the previous screen, press:

MOVING AROUND WITHIN THE FILE

You are returned to where you started.

File: BERT Lines 1 Thru 25 Size 61 This is a text file. It is supplied as a sample file. Four score and seven THIS LINE USES ALL CAPITAL LETTERS. this line contains no capital letters. This line is short. This line is used to show the capabilities of the F4 key. A file can contain all kinds of information. Information like: o Text o Data o Programs Anything else you can put in a file. 80/132 Boxmk LAST endlin locnxt Unmrk FT MARK FZ Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE FB Locall

Entering Subcommands

Most of the basic editing functions can be done using function keys. However, there will be times when the function keys provided do not meet your editing needs. It is then that you will need to enter a subcommand.

To enter subcommands when screen editing, press:

(HOME)

The (HOME) key is on the keypad to the right of the main keyboard in the middle of the arrow keys (the (5) key). (HOME) moves the cursor to the subcommand line (the top line of the screen). Anything you enter on this line is processed when you press(NEXT).

When you enter a subcommand, the line and column at which the cursor was positioned when you pressed (HOME) is used as the current position. Editor subcommands are listed on the inside of the back cover. The only subcommands described in the Tutorial part of this manual are HELP, QUIT, ACTIVATE_SCREEN, and one form of SET_SCREEN_OPTIONS.

Getting Help

An online help file is available through the editor. If you can't recall how a subcommand works, press

HELP

or press the (HOME) key to move the cursor to the subcommand line and enter the subcommand:

help

Both access a file containing descriptions of the editor subcommands and their parameters. When you press

HELP

or enter

help

you are positioned at the beginning of the HELP file. You can then page through the file by using the **FWD** and **BKW** keys described earlier in this chapter.



GETTING HELP

If you want to be positioned at a description of a specific subcommand, enter the HELP subcommand followed by the name of the subcommand for which you need help. For example, if you were editing file BERT:

File: BERT Lines 1 Thru 25 Size 61 This is a text file.	
It is supplied as a sample file.	
Four score and seven	
THIS LINE USES ALL CAPITAL LETTERS.	
this line contains no capital letters.	
This Line is short.	
This line is used to show the capabilities of the F4 key.	
A file can contain all kinds of information.	
Information Like:	
o Text	
o Data	
o Programs	
o Anything else you can put in a file. Unmrk Boxmk LAST endlin F1 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE	80/132 F8 locall

To get help on the INSERT_LINES subcommand, press

(HOME)

and enter:

help insert_lines

The HELP file appears on the bottom half of the screen with the cursor positioned at the description of the INSERT_LINES subcommand.

Use EDIT key to erase Help file File: BERT Lines 1 Thru 12 Size 61 This is a text file. It is supplied as a sample file. Four score and seven THIS LINE USES ALL CAPITAL LETTERS. this line contains no capital letters. This line is short. File: SCU_EDITOR_HELP Lines 676 Thru 687 Size 1761 INSERT_LINES Inserts lines of text at a specified location in Purpose: the current file. Format: INSERT_LINES (INSL or I) NEW_TEXT=string PLACEMENT#keyword value INSERTION_LOCATION=integer **UNTIL**#string STATUS=status variable Unmrk Boxmk LAST endlin locnxt 80/132 F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall F1 MARK

To continue reading the help file, press:

(FWD)

To return to editing the file or files you were editing, press:

(EDIT)

This clears the screen of the HELP file.

In the previous example, to return to editing just file BERT, press

(EDIT)

and the description of INSERT_LINES is gone.

File: BERT Lines 1 Thru 25 Size 61 This is a text file.
It is supplied as a sample file.
Four score and seven
THIS LINE USES ALL CAPITAL LETTERS.
this line contains no capital letters.
This line is short.
This line is used to show the capabilities of the F4 key.
A file can contain all kinds of information.
Information like:
o Text
o Data
o Programs
o Anything else you can put in a file. Unmrk Boxmk LAST endlin locnxt 80/132
FT MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall

Deleting

Using function keys, you can delete characters, lines, words, and groups of blank lines. After reading about each topic, use a practice file to try them out.

Deleting Characters

To delete individual characters, use the **DLETE** key located above and to the right of the regular keyboard. Position the cursor on the character you want to delete, and press:

DLETE)

For example, to delete the extra n in Clinnic,

Corby Jones Clinnic

position the cursor on the n to be deleted

Corby Jones Clinnic

and press:



The following results:

Corby Jones Clinic



Deleting Lines

To delete lines, use the (DLETE) keys. For example, to delete the line

```
This line doesn't belong
```

from

```
Dr. Hugo Quackenbush
The Marx Clinic
This line doesn't belong
10 Downing Street
Minot, NM 77834
```

position the cursor anywhere on the line to be deleted:

This line doesn't belong

and press (C) (DLETE). The following results:

Dr. Hugo Quackenbush The Marx Clinic 10 Downing Street Minot, NM 77834

Deleting Words

To delete a word, use 🕢 F10 delwrd. When you start the editor, the prompts for programmable function keys F9 through F16 are not displayed. To display the programmable function key prompts for F9 through F16, press

HOME

and enter:

```
set_screen_options menu_row=2
```

The screen then displays two rows of prompts:

F1	Unmrk MARK	F2	Boxmk Chrmk	F3	LAST FIRST	F4	endlin middle	F5	UNDO	F6	END	F7	locnxt LOCATE	F8	80/132 locall
F9	delel insel	10	delwrd inswrd	11	Break	12	Join	13		14	Move Copy	15	dedent INDENT	16	center FORMAT

The function of the shifted F10 key depends on where the cursor is positioned.

If the cursor is positioned on a character that is not part of a word, that character is deleted. For example, if the cursor is positioned on a comma (,) and you press \bigcirc F10 delwrd, just the comma is deleted.

If the cursor is positioned on a character in a word, the current word is deleted and if the character after the word is a blank, it also is deleted. For FSE, a word is a string of letters, numbers, or the special characters , #, @, and _, surrounded by any other characters. The end of a line or beginning of a line is also considered to be a word boundary.

For example, the second occurrence of the word long needs to be deleted in the following:

This is a very long long program.

Position the cursor anywhere on the word long

This is a very long long program.

and press (F10 delwrd. The result is:

This is a very long program.

If the cursor is positioned on a blank character, that character is deleted as well as any following blanks until a nonblank character is encountered.

For example, the space between close and up needs to be removed:

close

up

Position the cursor at the point in the string of blanks you want the deletion to start:

close 🚿

up

Press 🙆 F10 detwrd . The following results:

close up



Deleting Blocks of Empty Lines

To delete a group of empty lines, use \bigcirc F9 delet. This deletes the current blank line and any following blank lines until a nonblank line is encountered.

For example, the blank lines between the first and the second line need to be deleted:

```
The first line.
```

The second line.

Position the cursor on the first blank line to be deleted:

The first line.

The second line

Press:



The blank lines are deleted resulting in:

The first line. The second line.



Inserting

Using function keys, you can insert text into your file including characters, lines, words, and blocks of blank characters. Actually, on the Viking 721 terminal, the text itself isn't inserted; space is inserted enabling you to enter your text. Other supported terminals enable you to enter what's called insertion mode, which allows you to insert the actual characters rather than spaces over which you type.

Inserting Characters

To insert a character, use the **(INSRT)** key located above and to the right of the regular keyboard. To do so, move the cursor to the character before which the new character is to appear and press**(INSRT)**. This inserts a blank character over which you can type the new character.

For example, a B needs to be inserted between the Y and the I in

CYIL

Position the cursor on the I:

CYIL



Press:

(INSRT)

This inserts a blank:

CY

You can then type the B over the blank.

CYBIL

(After you type B, the cursor moves to the next character.)

Inserting Lines

The quickest way to insert a line is to use the and INSRT keys. When you press

a blank line is inserted before the current line. You can then type in the text of the new line.

For example, to insert

Corby Jones Clinic

between

Dr. Leo Miller 2703 Jones Circle

position the cursor on the line before which you want the new line to appear (in this example, the line that reads 2703 Jones Circle) and press:

A blank line is inserted:

Dr. Leo Miller

Then, just type the new line of text.

Dr. Leo Miller Corby Jones Clinic 2703 Jones Circle

If you want to insert several lines of text, press

several times.

Inserting Words

To insert a word, use F10 insurd .F10 insurd inserts 32 blank characters over which you can type the word or words to be inserted.

For example, to insert

Jones

between Corby and Clinic ,

Corby Clinic

position the cursor to the C in Clinic and press:

F10 inswrd

32 blanks are then inserted over which you can type the new word:

Corby Jones 🐰

Clinic

To delete the remaining blanks, position the cursor on the first blank you want deleted and press \bigcirc F10 delwrd. This deletes all blanks until a nonblank character is encountered. In this example, move the cursor to the second blank character after Jones and press \bigcirc F10 delwrd. The following results:

Corby Jones Clinic

Inserting Blocks of Empty Lines

To insert a block of empty lines, use F9 inset . The number of blank lines inserted depends on the size of the screen. When you press F9 inset , empty lines are inserted before the current line, leaving two lines of text at the top and bottom of the screen.

For example, to insert empty lines between the line that reads

Dear George,

and the line that reads

Sincerely,

on the following screen:

Unmrk Boxmk LAST endlin Locnxt 80/132	de	lel		lelwrd	11	Brook	17	loin	17	 **	Move	45	dedent	. 12		
Abe	Ur E1 MA	mrk RK	B F2 c	loxmk	63	LAST	F4	endlin middle	65	56	END	57 1	LOCATE	FR	80/1	32
Abe																
Abe																
Abe																
	ince I	erely, Woe														

3-30 Full Screen Editor

position the cursor on the line that says Sincerely, and press:

F9 insel

The following screen results:

Jear Georg	H.						
Sincerely Abe Unmrk E1 MARK	Boxmk F2 Chrmk	LAST F3 FIRST	endlir F4 middle	n e #5 UNDO	F& END	Locnxt F7 LOCATE F8	80/132 Locall
delel	delwrd	 11 Break	12 Join	13	Move 14 Copy	dedent 15 INDENT 16	center FORMAT

Searching

Using function keys, you can perform three different types of searching. You can do searches for a text string, searches for the next occurrence of a string you specified earlier, and searches for all occurrences of a string.

Searching for a Text String

The easiest way to search for text is to use F7 LOCATE. When you press F7 LOCATE, the cursor moves to the subcommand line and you are prompted to enter the text you want to locate. The editor searches for the next occurrence of the text and, if found, positions the cursor at the first character of the string. You should enter the text exactly the way you want to find it in the text. For example, to find the word Fred in a file, you cannot enter FRED or fred; it must be entered as Fred.

Another example: you are editing file BERT and want to locate file. Press:

```
F7 LOCATE
```

The cursor moves to the subcommand line and you are prompted to enter the text you want to locate.



Type file and press **NEXT**. The editor searches forward from the current line (in this case we'll say it was the top line) and, when the string is found, positions the cursor at the beginning of the string.

File: BERT Lines 1 Thru 25 Size 61 This is a text file.	
It is supplied as a sample file.	
Four score and seven	
THIS LINE USES ALL CAPITAL LETTERS.	
this line contains no capital letters.	
This Line is short.	
This line is used to show the capabilities of the F4 key.	
A file can contain all kinds of information.	
Information like:	
o Text	
o bata	
o Programs	
Unmrk Boxmik LAST endlin 11 Mar 20 Charles Terrer and the State St	locnxt 80/132
TE PRICE TE CITINE TO TANGE IS MIDDLE IS ONDO TO CHE TE	200112 - 2 (00011

Searching for the Next Occurrence

To search for the next occurrence of a string in a file, press \bigcirc F7 [locnxt]. In this example, to locate the next occurrence of file (assuming file was the last string specified using F7 [LOCATE]), press \bigcirc F7 [locnxt]. The cursor is positioned at the next occurrence.

<u>.</u> This	is a text file.
I + i,	s sumplied as a sample file
-	
Four	score and seven
THIS	LINE USES ALL CAPITAL LETTERS.
this	Line contains no capital letters.
This	line is short
This	line is used to show the capabilities of the F4 key.
A fi	e can contain all kinds of information.
Info	mation like:
a	Text
	•
0	Data
0	Programs
o	Anything else you can put in a file.
UI	nmrk Boxmk LAST endlin locnxt 80/13

To locate any subsequent occurrences, just keep pressing \bigcirc F7 **locnxt**. If there are no more occurrences of the string, an error message is displayed.

Searching for All Occurrences

To search for all occurrences of a string, use F8 **locall**. When you press F8 **locall**, you are prompted to enter the string you want to find. You can then enter the string you want to find or, to locate the previously specified string, press(NEXT).

For example, to locate all occurrences of the string move within file FRED, press:

F8 locall

You are prompted to enter the text for which the editor is to search:

Hile:	FRED Lines 1 Thru 25 Size 120	
This is	i file FRED.	
It is a	ilso supplied as a sample file.	
This fi	le explains how to move around the file or how to mo	ove text.
To move	around the file, use the arrow keys, the FWD and B	W keys, and so on.
To move	text, use the FUNCTION key defined as MOVE or the P	IOVE text subcommand.
To move screen you to	<pre>text from one file to another, you can use a split editing you can display more than one file on the so see more than one file at a time.</pre>	screen. With split creen. This enables
To spli	t the screen, enter:	
set_s	screen_options splits=2	
This wi You can another	<pre>ll put the file you were editing on the top and bott then enter the EDIT_FILE command to create an empty existing file on the bottom half of the screen.</pre>	com of the screen. file or to access
Once th	e files are on the screen you can move marked text t	from one file to the
other us	e files are on the screen you can move marked text t sing the MOVE function key.	rom one file to the



Enter:

The directory of all the lines in the file containing move is displayed:

Press Next/Return to continue, or a line number to stop and position. Displaying Located Lines 6 This file explains how to move around the file or how to move text. 8 To move around the file, use the arrow keys, the FWD and BKW keys, and s 10 To move text, use the FUNCTION key defined as MOVE or the MOVE text subc 12 To move text from one file to another, you can use a split screen. With 24 Once the files are on the screen you can move marked text from one file 34 to move the marked text. 47 moves the word cannonball 117 shows the moved text. 80/132 locnxt endlin Unmrk Boxmk LAST F1 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END #7 LOCATE F8 locall

To look at the next screen of located lines, press(NEXT). If there isn't a next screen, pressing (NEXT) positions the cursor on the last line of the listed lines. If you want to position the cursor at a line contained in the list of lines, enter the line number on the subcommand line or position the cursor on the line and press(NEXT). You are returned to the file text with the line you selected.

For example, to go to line 10, enter the following on the subcommand line:

10 + (NEXT)

The following screen appears:

File: FRED Lines 1 Thru 25 Size 120 This is file FRED. It is also supplied as a sample file. This file explains how to move around the file or how to move text. To move around the file, use the arrow keys, the FWD and BKW keys, and so on. To move text, use the FUNCTION key defined as MOVE or the MOVE text subcommand. To move text from one file to another, you can use a split screen. With split screen editing you can display more than one file on the screen. This enables you to see more than one file at a time. To split the screen, enter: set_screen_options splits=2 This will put the file you were editing on the top and bottom of the screen. You can then enter the EDIT_FILE command to create an empty file or to access another existing file on the bottom half of the screen. Once the files are on the screen you can move marked text from one file to the other using the MOVE function key. 80/132 Unmrk Boxmk LAST endlin locnxt F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F1 MARK F7 LOCATE F8 locall

Marking

To use some of the other functions provided by the function keys, you need to know how to mark text. Marking tells the editor which text to use with a later operation, such as a copy or move function.

Using function keys, you can mark lines of text or a sequence of character strings. To mark lines, use F1 MARK. This highlights text in inverse video on terminals with that capability. For example, to mark the line

This is the line to mark.

in the following text,

first line second line This is the line to mark fourth line fifth line

position the cursor anywhere on the line to be marked:

This is the line to mark

Press:

F1 MARK

The line is highlighted to show you that it is marked:

first line second line This is the line to mark fourth line fifth line

To mark a range of lines, press F1 MARK twice: once on the first line to be marked and again on the last line to marked. For example, to mark all the lines from the second line to the fourth, position the cursor on the second line:

First line Second line Third line Fourth line Fifth line

Press:

F1 MARK

Revision **B**

The second line is highlighted:

First line	
Second line	
Third line	
Fourth line	
Fifth line	

Move the cursor to the fourth line and press F1 MARK again. All lines from the second through the fourth are highlighted:

First Line	
Second line	
Third line	
Fourth line	
Fifth line	

You can also mark strings of characters using F2 Chrmk . This also highlights the characters you have marked. For example, to mark the phrase

marked text,

in the following text,

If you want to move marked text, you should use the MARK function.

position the cursor on the m in marked:

If you want to move marked

Press F2 Chrmk The m in marked is highlighted:

If you want to move marked

Move the cursor by pressing the arrow keys to the second t in text and press F2 Chrmk . All characters between the two markers are now highlighted as well:

If you want to move marked text you should use the MARK function.

The lines or characters you mark will stay marked until you explicitly unmark them, mark some other text, move the marked text, or until you stop the editor. To unmark text, use the \bigcirc F1 Unmrk keys. For example, to unmark the text marked previously with F2 Chrmk key, just press:

合 F1 Unmrk

The lines are no longer marked and no longer highlighted.

Copying

To copy the current line to the next line, just press F14 (COPY); marking is not necessary (an example of this procedure is provided later in this section).

To copy text other than the current line, use F1 MARK or |F2| Chrmk and F14 |(COPY)|. Mark the text you want to copy. (Marking is described earlier in this chapter.) Position the cursor at the line or character before which you want the text to appear and press:

F14 (COPY)

For example, to copy

This is the line to copy

to just before the last line of the following text,

Don't copy this line This is the line to copy Don't copy this line Don't copy this line

position the cursor on the line to be copied and press F1 MARK. The line is marked:



This is the line to copy

Position the cursor on the line before which the line is to be copied:

Don't copy this line This is the line to copy Don't copy this line

Don't copy this line

Press F14 (COPY). The following results:

Don't copy this line

This is the line to copy

Don't copy this line This is the line to copy Don't copy this line

The marked text remains marked after the copy is complete. Use \bigcirc F1 Unmrk to unmark the text.

If you have marked characters to be copied, position the cursor to the character before which the copied text is to appear. For example, to copy the word seven in

Four seven score and years ago,

to after the word and, position the cursor on the space in front of seven,

Four seven score

press:

F2 Chrmk

The character is highlighted:

Four seven score

Then, move the cursor to the n in seven and press:

F2 Chrmk

The characters from the blank to the n in seven are highlighted:

Four seven score

To copy the marked characters to after the word and, move the cursor to the location you want them copied:

Four seven score and years ago,

Press F14 (COPY) .

The word seven is copied:

Four seven score and seven years ago,

The marked characters remain highlighted until you unmark them, mark different text, or stop the editor.

To copy the current line to the next line, press F14 (COPY). No marking is needed. For example, to copy the line

Repeat this line

from the following text,

First line Second line Repeat this line Third line Fourth line

position the cursor on the line to be copied:



First line Second line Repeat this line Third line Fourth line

Press F14 (COPY) . The line is copied to the next line:

First line Second line Repeat this line Repeat this line Third line Fourth line



Moving

To move lines or characters, use F1 MARK or F2 Chrmk and

F14 Move (information on how to display function key prompts for the F9 through F16 keys is included in the Deleting section of this chapter). You first need to mark the text to be moved. Then, position the cursor to the point you want the text to appear and press:



For example, to move the line that reads

Move this one

to just before the last line of the following text,

Don't move this line Move this one Don't move this line Don't move this line

position the cursor on the line to be moved.

Move this one

Press F1 MARK . The line to be moved is highlighted.

Move this one

Position the cursor on the line before which the moved line is to appear.

```
Don't move this line
Move this one
Don't move this line
Don't move this line
```

Press 🙆 F14 Move . The following results.

Don't move this line Don't move this line Move this one Don't move this line



If you have marked characters to be moved, position the cursor at the character before which the moved text is to appear. For example, to move the word seven in

Four seven score and years ago,

to after the word and, position the cursor on the space in front of seven:

Four seven score

Press:

F2 Chrmk

The character is highlighted:

Four seven score

Then, move the cursor to the n in seven and press:

F2 Chrmk

The characters from the blank to the n in seven are highlighted:

Four seven score



To move the marked characters to after the word and, move the cursor to the location you want them moved:

Four seven score and years ago,

Press:

F14 Move

The word seven is moved to the destination, disappearing from its former location:

```
Four score and seven years ago,
```

Undoing

To undo a change that you have made during your current editing session, use F5 UNDO. Each pressing of F5 UNDO cancels all changes you made to your file since the last time you pressed (NEXT) or a function key that provides a carriage return (all Viking 721 function keys provide carriage returns). With each succeeding press of F5 UNDO, the changes are undone in the reverse order you made them. F5 UNDO undoes changes you have made to the file text, and restores previous current positions.

For example, the following changes were made to a file in the order shown:

- 1. All abc's were changed to xyz's using the REPLACE_TEXT subcommand. (NEXT) was pressed.
- 2. The word water was changed to juice by typing juice over water.
- 3. The first line of the file was deleted using the (DLETE) keys.

Each time you press F5 UNDO, the changes are undone as shown:

The first time	The first line of the file is returned and the
F5 UNDO is pressed.	word juice is changed back to water.
The second time	The xyz's are changed back to abc's.

NOTE

To undo changes to files edited earlier in your current job and not closed using QUIT or END, you must position the cursor in the file and then press F5 UNDO. FSE does not automatically return to a previously edited file to undo changes.
Stopping an Editing Session

There are two ways to stop an editing session. You can stop the editor and leave all the changes you have made to any edited files intact. You can also stop the editor and undo all the changes you made to the files you edited.

To stop the editor and save changes to edited files, press:

F6 END

The screen is cleared and after the editing changes are processed the system prompt appears:

1

1

To stop the editor and undo all of the changes made to all edited files, press

(HOME)

and enter the subcommand:

quit false

This cancels all changes you have made to all of your edited files. The screen is cleared and the system prompt appears:



For information on stopping an editing session when you are editing decks refer to Chapter 8, Editing SCU Decks.

Before You Continue

Before you read the other chapters in part II, you should be familiar with a few of the concepts you will encounter. These concepts are:

Subcommand Syntax
Common Parameters
BOUNDARY (B)
COLUMN (COLUMNS or C)
LINE (LINES or L)
STATUS
External and Working Files
Open and Closed Files
The VETO Parameter
The Mask Character
Editing Source Code Utility Decks







Subcommand Syntax

The editor subcommands have the same general syntax as SCL commands. That is, most subcommand names contain a verb describing the function they perform followed by an object specifying the target of the function. The verb and the object are separated by an underline character. For example:

delete_line

As you may have noted, you can compare a subcommand to a sentence describing the action. This can prove helpful if you can't quite recall the syntax of a subcommand; just try entering a sentence that describes what you want to do.

Also, subcommands can be abbreviated. All subcommands can be abbreviated by joining the first three letters of the verb with the first letter of the object. Several subcommands can be abbreviated to only the first letter of the verb and the first letter of the object. Still fewer subcommands can be abbreviated to a single letter. For example, the following subcommands can be abbreviated as shown here.

Full Name	Abbreviated Names				
DELETE_WORD	DELW				
INSERT_CHARACTER	INSC				
INSERT_LINE	INSL or I				
MARK_CHARACTER	MARC or MC				

All valid abbreviations for all the subcommands are included in their descriptions and also on the inside back cover.

In the subcommand descriptions in part II, *italics* mean that the parameter is optional. Parameters that appear in **bold type** are required.

Common Parameters

Many subcommands use the same parameters. Several of these parameters have a large number of values. For this reason, the following common parameters and their values are also listed on the inside front cover.

BOUNDARY (B)

I

The BOUNDARY (B) parameter has the following values:

Value	Meaning
LINE (LINES or L)	The text boundaries of a subcommand are limited by lines.
STREAM (S)	The text boundaries of a subcommand are limited by characters specified by an accompanying COLUMNS parameter.

The following example boundaries may help clarify the descriptions.

LINE boundary:

Four score and	
seven years ago	Beginning LINE boundary.
our forefathers brought	
forth, on this continent,	Ending LINE boundary.
a new nation.	

STREAM boundary:

Four score and	
seven years ago	Beginning STREAM boundary.
our forefathers brought	
forth, on this continent,	Ending STREAM boundary.
a new nation.	

I

COLUMN (COLUMNS or C)

The COLUMN (COLUMNS or C) parameter has the following values:

Value	Meaning		
integer	Any integer from 1 through 256.		
CURRENT (C)	The current column.		
FIRST_MARK (FM)	The first column of the marked text.		
LAST_MARK (LM)	The last column of the marked text.		
MARK (M)	All marked columns in the marked text.		
MAXIMUM (MAX)	The highest possible number value for a column (equivalent to 256).		

For COLUMN parameters that allow a range, you can specify two of the above values (except MARK) to form a range. For example, to specify a range of columns from column 1 to the current column, you could enter:

1..current

LINE (LINES or L)

The LINE (LINES or L) parameter has the following values:

Value	Meaning
integer	A line in the file. The integer can be from 1 through the number of lines in the file.
line identifier (modset.sequence)	A line in an SCU deck. The line identifier consists of a modification name and a sequence number, separated by a period.
ALL (A)	All lines of the file.
CURRENT (C)	The current line.
FIRST (F)	The first line of the file.
FIRST_MARK (FM)	The first line of the marked text.
FIRST_SCREEN (FS)	The top line of the file displayed on the screen.
LAST (L)	The last line of the file.
LAST_MARK (LM)	The last line of marked text.
LAST_SCREEN (LS)	The bottom line of the file displayed on the screen.
MARK (M)	All marked lines.
SCREEN (S)	All lines of that portion of the file displayed on the screen.

For LINE parameters that allow a range, you can specify two of the above values (except ALL, MARK, and SCREEN) to form a range. For example, to specify a range of lines from the first line of the screen to line 250, enter:

first_screen..250

STATUS

The STATUS parameter specifies the status variable to contain the completion status of the subcommand. All SCL commands and editor subcommands use this parameter. It is not included in the descriptions of the parameters for the subcommands in this manual. For information on the STATUS parameter and its values, refer to the SCL Language Definition manual.

External and Working Files

Part II uses the terms external files and working files. You need to know what these terms mean within the context of editing.

An external file is a file outside the editor. When the editor edits a file it uses a copy of an external file. This copy is called the working file.

When you stop your editing session, you have a choice whether to keep changes or discard them. The changes you make to the working file are not made to the external file until you enter an explicit WRITE_FILE command, or end your editing session with an END or QUIT subcommand or the F6 END key. If you make changes to a working file and end your editing session with a QUIT FALSE subcommand, the changes are not made to the external file.

Unless you specify how to position a file on a given subcommand, the open position of an external file is determined by the SCL SET_FILE_ ATTRIBUTES command. If you have not entered a SET_FILE_ ATTRIBUTES command with the OPEN_POSITION parameter specified, by default your external files except OUTPUT are positioned to the beginning-of-information. OUTPUT is positioned to the end-of-information.

A quick way to update the external copy of a working file without leaving the editor, is with the WRITE_FILE subcommand. (The format is described in the Copying section of chapter 5, Common Editing Functions.) To use the subcommand to update the external copy of the working file, enter

write_file

The working file then overwrites the external copy without stopping your editing session.



Open and Closed Files

Within part II, you will also encounter the terms open files and closed files. These terms have special meaning within the editor. Open files are files that have been accessed via the EDIT_FILE command. Most of the files you will be concerned about are open files. If a file is open, you can return to it during your editing session and undo changes. If you end your editing session with the END or QUIT subcommand, or the F6 END key, changes to all open files are made permanent. If you end your editing session with a QUIT FALSE subcommand, changes to all open files are canceled.

Closed files are files that have been explicitly closed using the END_FILE subcommand (this subcommand is described in chapter 5, Common Editing Functions). When a file is closed, any changes made permanent may not be undone.

The END and QUIT subcommands and the F6 **END** key are described further in the Stopping section of chapter 5, Common Editing Functions.

The VETO Parameter

The VETO parameter is available on subcommands such as REPLACE and LOCATE. The VETO parameter enables you to select which lines you want the subcommand to affect. This can be very helpful in screen mode if many lines are affected by, for example, a LOCATE_TEXT subcommand. In screen mode when you specify TRUE, the editor displays a directory of the located lines. From this display, you can select a line at which you want to be positioned. For example, you are editing file FRED and enter a LOCATE_TEXT subcommand that locates all the lines containing the string move. The following display appears:

Press Next/Return to continue, or a line number to stop and position. Displaying Located Lines 6 This file explains how to move around the file or how to move text. 8 To move around the file, use the arrow keys, the FWD and BKW keys, and s 10 To move text, use the FUNCTION key defined as MOVE or the MOVE text subc 12 To move text from one file to another, you can use a split screen. With 24 Once the files are on the screen you can move marked text from one file. 34 to move the marked text. 47 moves the word cannonball 117 shows the moved text. 80/132 locnxt Unmrk Boxmk LAST endlin F3 FIRST F4 middle F5 UNDO F6 END ET MARK F2 Chrmk F7 LOCATE F8 locall

You can then enter the number of the line at which you want to be positioned or place the cursor on the line in the menu and press return to select that line position.

When you specify FALSE, the editor tells you how many occurrences were found and positions you at the last occurrence.

You can also use the VETO parameter in line mode. For example, if you enter a REPLACE_TEXT subcommand, you are prompted line by line to determine if you want the change for that line to occur. The following prompt appears:

REPLACE?

There are several valid responses to this prompt. These responses are:

Response	Meaning
CONTINUE (C)	The current line and any subsequent lines affected by the REPLACE subcommand are changed with no further interaction.
NO (N)	Skips the current line and goes on to the next.
QUIT (Q)	Stops the replacement.
YES (Y)	Replaces only the current line, and locates the next occurrence.

The Mask Character

Some commands described in part II search the file for a specified text string. With these subcommands, you can use what's called a mask character to serve as a wild card character; that is, it matches any other character. For example, to specify a string to be replaced, searched for, and so on, you could enter something like:

'F##d'

Strings that match this string would be:

Ford Fred Food Find Fund

or any other four-character string beginning with F and ending with d.

When you start editing, no mask character is set. You can set the mask character using the SET_MASK subcommand. The format of the subcommand is:

SET_MASK (SETM) CHARACTER=string or keyword value STATUS=status variable

The CHARACTER parameter specifies the mask character. Values can be any character or the keyword NONE. When NONE is specified, the mask feature is turned off. This parameter is required.

Editing Source Code Utility Decks

Any of the features and functions described in part II can be used to edit decks on SCU libraries. There are a few functions in chapter 9 that apply specifically to decks, and these are noted. Editing decks is described in detail in chapter 8.



Common Editing Functions

This chapter describes the most common of the editing functions. Each section describes how to perform a function using function keys (when applicable) and subcommands.

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Starting the Editor

To start the editor, use the EDIT_FILE command. The format of the command is:

EDIT_FILE (EDIF)

FILE=file INPUT=file OUTPUT=file PROLOG=file STATUS=status variable

The FILE (F) parameter specifies the name of the file you want to edit. If it does not already exist in your working catalog, it is created. The file must be a sequential file with a record type of CDC variable (V). Also, it can't be an object file. By default, files created by NOS/VE have these attributes. You can determine a file's record type by entering the DISPLAY_FILE_ ATTRIBUTE command with the DISPLAY OPTION parameter equal to RECORD TYPE. If the file contains end-of-partition delimiters, the editor changes the delimiters to WEOP directives. This allows you to manipulate the end-of-partition delimiters during the editing session. Refer to Creating Multipartition Files later in this chapter for more information. This parameter is required.

The INPUT (I) parameter specifies the file used as input to the editor. This file can be positioned. This file contains optional editor subcommands used to manipulate the edit file. If INPUT is omitted, file \$COMMAND is assumed. File \$COMMAND is usually connected to the terminal.

The OUTPUT (O) parameter specifies the file to which you want to write any output that may result from your editing session. This file can be positioned. If OUTPUT is omitted, \$OUTPUT is assumed.

The PROLOG (P) parameter specifies the name of the file containing subcommands you want executed each time you start the editor. Within this file you can put editor subcommands that you want executed every time you start the editor. For example, if you know you want to use screen mode on a DEC VT100 terminal, add the appropriate subcommand and you will automatically start the editor in screen mode. Chapter 10, Prologue and Epilogue Files, describes the prologue file in more detail. If PROLOG is omitted, \$USER.SCU_EDITOR_PROLOG is assumed.



If you would like to specify a file containing FSE subcommands to be executed each time you leave the editor (an epilogue file), use the SET_ EPILOG subcommand. Chapter 10, Prologue and Epilogue Files, describes setting an epilogue file in more detail.

For example, to start the editor and edit file ZAP, enter:

/edit_file file=\$user.ZAP

The following prompt appears:

ef/

To get into screen mode, enter the ACTIVATE_SCREEN subcommand specifying the type of terminal you are using. Format of the subcommand is:

ACTIVATE_SCREEN (ACTS) MODEL=name STATUS=status variable

The MODEL (M) parameter specifies the type of terminal you are using. Valid entries are:

Entry	Terminal	
CDC721	Control Data Viking 721	
CDC722	Control Data 722	
CDC 722_30	Control Data 722-30	
VT100	DEC VT100	
PC_CONNECT	IBM PC (or equivalent)	
Z19	Zenith Z19 or Heathkit H19	
Z29	Zenith Z29	

If the MODEL parameter has not been specified on an earlier ACTIVATE_ SCREEN or SET_SCREEN_OPTIONS subcommand or on the TERMINAL_MODEL parameter of the SET_TERMINAL_ATTRIBUTES command, it is required. To automatically set the terminal model, include the SET_TERMINAL_ATTRIBUTES command in your user prolog.

For example, to get into screen mode on a Viking 721 terminal, enter:

ef/activate_screen model=cdc721

The first screen of file ZAP then appears:

File: ZAP Lines 1 Thru 25 Size 61 This is a text file. It is supplied as a sample file. Fozy score and seven THIS LINE USES ALL CAPITAL LETTERS. this line contains no capital letters. This line is short. This line is used to show the capabilities of the F4 key. A file can contain all kinds of information. Information Like: o Text Data -0 ۵ Programs Anything else you can put in a file. o. LAST 80/132 Unmrk Boxmk endlin locnxt F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall FT MARK F2 Chrmk

Once you are in screen mode, you can also enter the ACTIVATE_SCREEN subcommand to repaint the screen.

If you know you will be using the editor in screen mode on a particular terminal model, you can add the ACTIVATE_SCREEN subcommand to what's called a prologue file. This file contains subcommands or procedures that are executed every time you start the editor. For example, if you know you will be using the editor in screen mode on a DEC VT100, you would add the following ACTIVATE_SCREEN subcommand to your prologue file.

```
activate_screen model=vt100
```

Each time you start the editor with the EDIT_FILE subcommand, you are put in screen mode with the terminal set up as a VT100.

Creating a File

You can create a file in either screen or line mode.

Screen Mode:

To create a file in screen mode, enter the EDIT_FILE command specifying a file that does not exist. For example, file ERNIE does not exist on your working catalog. To create it on a Viking 721 terminal, enter:

/edit_file file=ernie

The following prompt appears:

ef/

Activate screen mode by entering:

```
ef/activate_screen model=cdc721
```

The following screen appears, showing you that it is an empty file:

File: I	ERNIE Empty	<u>.</u>					
Unmrk F1 MARK	Boxmk F2 Chrmk I	LAST 3 FIRST F	endlin 4 middle F5	UNDO F6	I END F7 L	locnxt 80 LOCATE F8 lo	/1 32 call

To enter text into the file, just type what you want to appear in the file.

Line Mode:

To create a file in line mode, enter the same EDIT_FILE command and then use the INSERT_LINES subcommand to enter the file text. For example, to create file ERNIE, enter:

/edit_file file=ernie

You are prompted with:

ef/

To add text to file ERNIE, enter the INSERT_LINES subcommand:

```
ef/insert_lines
```

You are then prompted with:

?

Enter your text:

? Text to go into ERNIE.

Press:

(NEXT)

When you press (NEXT), the following appears:

?

You then enter text you intend to appear on line 2 and press (NEXT). If you don't enter any text and press (NEXT), a blank line is inserted. Continue until you have added all the text you want to add. To stop the insert, enter what's known as the UNTIL character (or characters). This character (or characters) tells the editor to stop the insertion. The initial setting for the UNTIL character is **. For example, you are inserting text as shown in our previous example. To stop the insert, add ** to the end of the last line to be inserted:

? That is all.**

Press:

(NEXT)

The insert is ended and the line mode prompt appears:

ef/

Refer to the Inserting section for more information on inserting text.



Entering Subcommands

You can enter subcommands in either screen or line mode.

Screen Mode:

To enter subcommands in screen mode, press:

(HOME)

This moves the cursor to the subcommand line (top line of the screen). With the cursor on this line, you can enter any subcommand. Besides editor subcommands, you can enter any SCL command. You cannot, however, continue a subcommand or command from the subcommand line to the next. The entire entry must be made on the subcommand line. If you enter a noneditor command that results in output written on your screen, the output is written over the the existing screen. To restore the screen to its original form, press:

CLEAR + (NEXT)

Another way to restore the screen to its original form is to use the REFRESH_ROW subcommand. Format of the subcommand is:

REFRESH_ROW (REFR) ROW=keyword value or list of range of integer

The ROW (ROWS or R) parameter specifies the row of the screen to rewrite and is required. The range of rows can be 1 through the number of rows your terminal is capable of displaying, or the keyword value ALL. If you specify ALL, the entire screen is rewritten. If your terminal requires firmware to be downline loaded, use the ACTIVATE_SCREEN subcommand again or press:

If there is an error in the syntax of the subcommand you enter or the subcommand causes an error, an error message is displayed on the line below which you entered the subcommand. The erroneous subcommand you tried to enter remains on the subcommand line. You can then type the correction over the subcommand and try again. If you want to abandon the entire entry, press (NEXT), and the error message and the entry are erased.

Line Mode:

To enter subcommands in line mode, enter the subcommand after the line mode prompt and press **(NEXT)**:

ef/insert_lines

Press:

(NEXT)

In line mode, you can also enter any SCL command.

Getting Help

Online help is available through the editor in the form of a HELP file. The HELP file contains descriptions of all the editor subcommands and parameters.

To access the HELP file, you can use either the **HELP** key, (in screen mode only) or the HELP subcommand. To use the **HELP** key, just press it whenever you want help. The screen is split with the HELP file displayed on the bottom half of the screen and the text you are editing on the top half. If you already have more than one file displayed on the screen (this feature is described in chapter 7, Selecting Editor Options), the HELP file replaces the file at the bottom of the screen. You can then page through the file or use subcommands to find the text you want to read.

When you press (HELP), only the first 10 or 12 lines of the HELP file are displayed. To find help quickly on a particular subcommand, use the HELP subcommand.

The HELP subcommand enables you to position the cursor at the text you want to read. The format of the subcommand is:

HELP (HEL) TOPIC=keyword value STATUS=status variable

The TOPIC (T) parameter specifies the editor subcommand on which you want help. When you specify this parameter, the cursor is positioned at the first line of text describing the specified subcommand. If TOPIC is omitted, the cursor is positioned at the first line of the file.

Stopping

To stop the editor, you can use function keys (screen mode only) or subcommands. With subcommands, you can specify whether or not you want the changes you've made to be permanent and you can also close just the current file.

If a file contains WEOP directives and has a record type of V (variable) then whenever the editor makes changes to a file permanent it also changes the WEOP directives to end-of-partition delimiters. Refer to Creating Multipartition Files later in this chapter for more information.

Stopping with Function Keys

The following function keys enable you to stop the editor.

Key	Function
F6 END	Stops the editor. Changes you have made to any open files are made permanent.
(STOP)	Deactivates screen mode. This key leaves you in the editor in line mode.

Stopping with Subcommands

There are several subcommands you can use to close files.

To stop the editor and close all edited files, you can use the END or QUIT subcommand. The subcommands do exactly the same thing and have the same format. The format is:

END or QUIT (QUI) WRITE_FILE=boolean STATUS=status variable

The WRITE_FILE (WF, WRITE_DECK, or WD) parameter specifies if you want changes to all open files made permanent. If WRITE_FILE is omitted, TRUE is assumed and the changes are made permanent. If FALSE is specified, no changes to open files are made permanent. For information on closing decks refer to Closing a Deck in chapter 8.

To close only the current file and continue editing other files, use the END_ FILE subcommand. This closes the current file, making it impossible to undo any changes that have already been made, and frees the resources that were committed to it. It is also useful if you want to stay in the editor issuing commands that need to use the current file in its edited state. The format is:

END_FILE (ENDF) WRITE_FILE=boolean STATUS=status variable

The WRITE_FILE (WF, WRITE_DECK, or WD) parameter specifies if you want changes to this file made permanent. If WRITE_FILE is omitted, TRUE is assumed and all changes are made permanent in the current file. If FALSE is specified, changes are not made permanent.

The END_FILE and END_DECK subcommands perform the same function. Closing decks is described under Closing a Deck in chapter 8.

To stop screen mode without stopping the editor, use the DEACTIVATE_ SCREEN subcommand. The format is:

DEACTIVATE_SCREEN (DEAS)

STATUS=status variable

When you enter this subcommand, the screen is blanked and the line mode prompt appears:

ef/

Moving the Cursor

Several keys and subcommands are available to move the cursor around the file.

Moving the Cursor with Function Keys

The function keys available to move the cursor are:

Key	Function
Ð	Moves the cursor up.
•	Moves the cursor down.
-	Moves the cursor right.
-	Moves the cursor left.
—	Moves the cursor forward to the next tab setting.
	Moves the cursor backward to the previous tab setting.
Номе	Moves the cursor to the subcommand line.
🛆 F4 endlin	Moves the cursor to the end of the current line.

Moving the Cursor with Subcommands

You can also move the cursor to a specific line or backward or forward from the current position using subcommands. The general subcommand, POSITION_CURSOR, does the same thing with parameters that the other subcommands perform specifically. For example, you could use POSITION_ CURSOR LINE=24 to move the cursor to line 24 or you could use LIST_ LINE LINE=24. You have many more options using the additional parameters of POSITION_CURSOR, but LIST_LINE is easier to remember.

Moving the Cursor Using POSITION_CURSOR

Using this subcommand in screen mode, you can move the cursor to a nontext line. The format of the subcommand is:

POSITION_CURSOR (POSC or P)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value COLUMN=range of integer or keyword value BOUNDARY=keyword value DIRECTION=keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean ROW=integer STATUS=status variable

The TEXT (T) parameter specifies a block of text at which to position the cursor. If TEXT is omitted, the new cursor position is determined by the LINE, COLUMNS, and BOUNDARY parameters.

The NUMBER (N) parameter specifies the number of times the search is to be repeated. Values can be a number or the keyword ALL (A). If NUMBER is omitted, ALL is assumed if you have specified a range for the LINE parameter; otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter can specify one of two things. If a single line number is specified (such as 100), the cursor is positioned at that line. If a range of lines is specified, the editor searches for the text string specified with the TEXT parameter within that range of lines. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If you specify a value of only one line, the search is limited to that line. If LINE and DIRECTION are omitted, CURRENT..LAST is assumed. If you omit LINE and specify BACKWARD for the DIRECTION parameter, CURRENT..FIRST is assumed. The COLUMN (COLUMNS or C) parameter specifies the range of columns to be searched to locate the specified text or word. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4. If COLUMNS is omitted, the editor does not supply a value. When you supply a value, the BOUNDARY parameter assumes a value of STREAM.

The BOUNDARY (B) parameter specifies the type of boundary that will limit the search. Values can be LINE or STREAM, as described in the Common Parameters section of chapter 4. If BOUNDARY is omitted, LINE is assumed. If a value for COLUMNS is specified and BOUNDARY is omitted, STREAM is assumed.

The DIRECTION (D) parameter specifies whether to search forward or backward from the current line. Values can be FORWARD (F) or BACKWARD (B). If you do not specify a value, FORWARD is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The beginning and end of each line are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters #, \$, @, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor to use the values used for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current POSITION_CURSOR subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

The ROW (ROWS or R) parameter enables you to move the cursor in relation to the screen instead of in relation to the file text. When the value specified is a nontext row (like the subcommand line), the current position in the file remains the same. For terminals without a (HOME) key, using the ROW parameter enables you to simulate the (HOME) key.

The following examples show how you might use the POSITION_ CURSOR subcommand.

position_cursor line=500

Positions the cursor at line 500 of the file.

position_cursor number=3 direction=b

Moves the current position backward three lines from the current line.

position_cursor lines=current..last number=2 column=1

Moves the cursor to the first column of the next line.

position_cursor row=2

Moves the cursor to the second line of the current screen.

position_cursor line=first

Moves the cursor to the first line in the file.

Moving the Cursor Backward

To position the cursor backward a specified number of lines, use the POSITION_BACKWARD subcommand. The format is:

POSITION_BACKWARD (POSB or **PB)** *NUMBER=integer*

The NUMBER (N) parameter specifies the number of lines to move backward. If NUMBER is omitted, a value of 1 is assumed.

The following example shows how you might use the POSITION_ BACKWARD subcommand.

position_backward n=25

Moves the cursor backward 25 lines from the current line.

Moving the Cursor Forward

To position the cursor forward a specified number of lines, use the POSITION_FORWARD subcommand. The format is:

POSITION_FORWARD (POSF or **PF)** *NUMBER=integer*

The NUMBER (N) parameter specifies the number of lines to move forward. If NUMBER is omitted, a value of 1 is assumed.

The following example shows how you might use the POSITION_FORWARD subcommand.

position_forward n=63

Moves the cursor forward 63 lines from the current line.

Revision C



Listing

To list lines on the editor, there are three subcommands available. Lines previous to the current cursor position, following the current position, or selected by line number from anywhere in the file may be listed.

Listing Lines Previous to the Current Line

While in line mode, to display a range of lines ending with the current line, use the LIST_BACKWARD subcommand. In effect, it enables you to view a number of lines just before the current line and end up where you started. The format is:

LIST_BACKWARD (LISB or LB) NUMBER=integer or keyword value

The NUMBER (N) parameters specifies the number of lines to list. Values can be numbers or the keyword ALL. ALL lists all the lines from the beginning of the file to the current position. If NUMBER is omitted, a value of 1 is assumed.

The following example shows how you might use the LIST_BACKWARD subcommand.

list_backward n=15

Lists 15 lines ending with the current line.



Listing Lines Following the Current Line

While in line mode, to display a range of lines beginning with the current line, use the LIST_FORWARD subcommand. The format is:

LIST_FORWARD (LISF or LF) NUMBER=integer or keyword value

The NUMBER (N) parameter specifies the number of lines to list. Values can be numbers or the keyword ALL. ALL lists all the lines from the current position to the end of the file. If NUMBER is omitted, a value of 1 is assumed.

The following example shows how you might use the LIST_FORWARD subcommand.

list_forward n=15

Lists 15 lines beginning with the current line.

Listing a Specific Line or Lines

To list a specified line or range of lines, in line mode, use the LIST_LINES subcommand. In screen mode, use the LIST_LINES subcommand to position the cursor at the specified line. The format is:

LIST_LINES (LISL or LL) LINE=integer or keyword value

The LINE (LINES or L) parameter specifies the line or range of lines to list. If a range of lines is specified while in screen mode, the cursor is positioned at the last line in the range. If LINE is omitted, CURRENT is assumed.

The following example shows how you might use the LIST_LINES subcommand.

list_lines 1=25..40

Lists lines 25 through 40.

Paging

Paging applies to screen mode only. Paging is moving through the file a screen at a time. To view the next screen of text, press:

(FWD)

The bottom line of the current screen appears at the top of the next screen.

To view the previous screen of text, press:

(BKW)

The top line of the current screen appears at the bottom of the previous screen.

Another way to move more than a few lines at a time is with the UP and (DOWN)keys. When you press

UP)

the file is repositioned so that the line containing the cursor is at the top of the screen.

When you press

(DOWN)

the file is positioned so that the line containing the cursor is at the bottom of the screen.

Pressing either key repeatedly moves you through the file a half page at a time.

The position of the cursor after pressing (FWD), (BKW), (UP), or (DOWN) is the middle of the screen (not the top or bottom of the screen).


Searching

There are several function keys and subcommands you can use to search for text strings within a file.

Searching with Function Keys

The function keys used for searching are:

Key	Function
F7 LOCATE	Prompts you for a string to find and then locates it.
F7 Locnxt	Searches for the next occurrence of a previously specified string.
F8 locall	Prompts you for a string to find, locates all lines containing the string, and displays them in a directory-type display. To locate all occurrences of the last specified string, press (NEXT) when prompted to enter a search string.

Searching with Subcommands

You can also locate text, empty lines, and wide lines using subcommands. The general subcommand LOCATE_TEXT does the same thing using parameters that the other subcommands perform specifically. For example, you could use LOCATE_TEXT TEXT='start' NUMBER=ALL to find all occurrences of start, or you could use LOCATE_ALL TEXT='start'.

There are specific subcommands to locate all occurrences of text, locate the next occurrence of text, locate the next occurrence of a string, and limit the columns in which you want the search to occur.



Searching Using LOCATE_TEXT

To locate blocks of text, use the LOCATE_TEXT subcommand. The format is:

LOCATE_TEXT (LOCT or L)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value COLUMN=range of integer or keyword value BOUNDARY=keyword value DIRECTION=keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean VETO=boolean STATUS=status variable

The TEXT (T) parameter specifies strings of text in the first and last lines of a block of text to be located. If you enter only one string, the block of text to be located will contain only one line. If you enter two strings, the search for the second begins immediately after the first is found and the cursor is positioned at the beginning of the first string. If TEXT is omitted, the lines to be located will be determined by the NUMBER, LINE, and DIRECTION parameters.

The NUMBER (N) parameter specifies the number of blocks of text to be found. Values for this parameter can be a number or the keyword ALL (A). If you specify a range of values for the LINE parameter, the NUMBER parameter assumes a value of ALL; otherwise, a value of 1 is assumed. In line mode, the NUMBER parameter is used to display a range of lines. Refer to Printing Lines in Line Mode later in this chapter for more information.

The LINE (L) parameter specifies a range of lines to be searched. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If you specify a value of only one line, the search is limited to that line. If LINE and DIRECTION are omitted, CURRENT..LAST is assumed. If you omit LINE and specify BACKWARD for the DIRECTION parameter, CURRENT..FIRST is assumed. In line mode, the LINE parameter can specify the lines to print. Refer to Printing Lines in Line Mode later in this chapter for more information.

The COLUMN (COLUMNS or C) parameter specifies the range of columns to search. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4. If COLUMNS is omitted, CURRENT is assumed. The BOUNDARY (B) parameter specifies the type of boundary that will limit the search. Values can be LINE or STREAM as described in the Common Parameters section of chapter 4. If BOUNDARY and COLUMNS are omitted, LINE is assumed. If a value for COLUMNS is specified and BOUNDARY is omitted, STREAM is assumed.

The DIRECTION (D) parameter specifies whether to search forward or backward from the current line. Values can be FORWARD (F) or BACKWARD (B). If you do not specify a value, FORWARD is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and $_$ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor to use the values used for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current LOCATE_TEXT subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

The VETO (V) parameter instructs the editor to turn on or off the VETO parameter described in chapter 4. When you specify TRUE, the editor displays a directory of located lines. If VETO is omitted, FALSE is assumed.



The following examples show how you might use the LOCATE_TEXT subcommand.

locate_text 'PROCEND'

Locates the next occurrence of PROCEND.

```
loct 'TITLE' direction=b
```

Locates the previous occurrence of TITLE.

```
loct line=250
```

Positions the cursor on line 250 of the current file or deck.

```
loct repeat_search=true
```

Locates the string you last specified as a value for the TEXT parameter.

```
loct 'PARAMETER' number=all veto=true
```

Locates all occurrences of PARAMETER from the current position to the end of the file and displays the lines in a directory-type display.

```
loct 'one'..'twenty'
```

Locates the next block of text beginning with one and ending with twenty.

l n=5

In line mode, prints the current line and four subsequent lines. In screen mode, positions the cursor four lines forward.

Searching for All Occurrences of Text

To search the entire file to locate all occurrences of a specified string, use the LOCATE_ALL subcommand. In screen mode, all occurrences are then listed, enabling you to position the cursor at a specific line or enter the line number desired. In line mode, all occurrences are listed and you are positioned at the last occurrence of the string. The format is:

LOCATE_ALL (LOCA or LA) TEXT=string

The TEXT (T) parameter specifies the text string you want to find. If TEXT is omitted, the last text string specified, if any, is assumed.

The following example shows how you might use the LOCATE_ALL subcommand.

```
locate_all text='find this text'
```

Locates all occurrences of the string, find this text, in the file and lists them.



Searching for the Next Occurrence of Text

To locate the next occurrence of a previously specified string, use the LOCATE_NEXT subcommand. The search begins one column after the current column. The format is:

LOCATE_NEXT (LOCN or LN)

Searching for the Next Occurrence of a String

To search for the next line containing a specified string, beginning at the current line and column, use the LOCATE_STRING subcommand. The format is:

LOCATE_STRING (LOCS or LS) TEXT=string

The TEXT (T) parameter specifies the text string to locate. If TEXT is omitted, the last string parameter specified, if any, is used.

Searching for Empty Lines

To find empty lines (lines with no characters), use the LOCATE_EMPTY_ LINES subcommand. The subcommand format is:

LOCATE_EMPTY_LINES (LOCEL) NUMBER=integer or keyword value LINE=range of integer or keyword value DIRECTION=keyword value VETO=boolean STATUS=status variable

The NUMBER (N) parameter specifies the number of empty lines to find. Values for this parameter can be numbers or the keyword ALL. If you specify a LINE parameter, this parameter assumes a value of ALL; otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to search. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If you specify a value of only one line, the search is limited to that line. If LINE and DIRECTION are omitted, CURRENT..LAST is assumed. If you omit LINE and specify BACKWARD for the DIRECTION parameter, CURRENT..FIRST is assumed.

The DIRECTION (D) parameter specifies whether to search forward or backward from the current line. Values can be FORWARD (F) or BACKWARD (B). If you do not specify a value for DIRECTION, FORWARD is assumed.

The VETO (V) parameter instructs the editor to turn on or off the VETO parameter described in chapter 4. Values can be TRUE or FALSE. When you specify TRUE, the editor displays a directory of located lines. If VETO is omitted, FALSE is assumed.

The following examples show how you might want to use the LOCATE_EMPTY_LINES subcommand.

locate_empty_lines number=5

Locates the next five empty lines.

locel line=20..40

Locates all empty lines between lines 20 and 40.

locel number=10 line=mark

Locates the next 10 empty lines in the marked text.

Searching for Wide Lines

To locate lines that are wider than the margins specified by the SET_LINE_WIDTH subcommand, use the LOCATE_WIDE_LINE subcommand. Format of the subcommand is:

LOCATE_WIDE_LINE (LOCATE_WIDE_LINES or LOCWL)

NUMBER=integer or keyword value LINE=range of integer or keyword value DIRECTION=keyword value VETO=boolean STATUS=status variable

The NUMBER (N) parameter specifies the number of wide lines to be found. Values for this parameter can be numbers or the keyword ALL (A). If you specify a LINES parameter, this parameter assumes a value of ALL; otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be searched. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If you specify a value of only one line, the search is limited to that line. If LINE and DIRECTION are omitted, CURRENT..LAST is assumed. If you omit LINE and specify BACKWARD for the DIRECTION parameter, CURRENT..FIRST is assumed.

The DIRECTION (D) parameter specifies whether to search forward or backward from the current line. Values can be FORWARD (F) or BACKWARD (B). If DIRECTION is omitted, FORWARD is assumed.

The VETO (V) parameter instructs the editor to turn on or off the VETO parameter described in chapter 4. Values can be TRUE or FALSE. When you specify TRUE, the editor displays a directory of located lines. If VETO is omitted, FALSE is assumed.

The following examples show how you might use the LOCATE_WIDE_ LINES subcommand.

locate_wide_lines number=10 veto=true

Locates and displays a directory of the next 10 wide lines.

locwl line=first_screen..last veto=true

Locates and displays a directory of all wide lines between the top line of the current screen and the last line of the file.

```
locwl number=10 line=mark veto=true
```

Locates and displays a directory of the next 10 wide lines in the marked text.

Setting Search Margins

If you need to limit the number of columns to be searched in subsequent subcommands that use string searches, use the SET_SEARCH_MARGINS subcommand. Format is:

SET_SEARCH_MARGINS (SETSM)

MARGIN_COLUMN=range of integer or keyword value STATUS=status variable

The MARGIN_COLUMN (MARGIN_COLUMNS or MC) parameter specifies the columns in which to perform the search. Values can be any number or any keyword from the list of values for the COLUMN parameter in the Common Parameters section of chapter 4. If you specify two values, the search is done from the first column through the last column specified. If you specify a single integer, only that column is searched. If MARGIN_ COLUMN is omitted, columns 1 through 256 are assumed.

For example, to set the search margins to columns 1 and 7, enter:

```
set_search_margin margin_column=1..7
```

The same subcommand could be entered as:

setsm mc=1..7



Inserting

There are several function keys and subcommands which allow you to insert text into your file. Described in this section are the function keys and subcommands that perform insert functions. Functions include inserting lines, characters, words, and blocks of blank lines.

Inserting with Function Keys

The following keys perform the described insert functions.

Key	Function
(INSRT)	Inserts a blank character over which you can type the character to be inserted.
	Inserts a blank line over which you can type the new text.
F9 insel	Inserts blank lines over which you can type new text. The number of blank lines inserted depends on the terminal and the current number of files displayed on the screen. Two lines of text are left at the top and bottom of the screen with the inserted empty lines in between.
F10 inswrd	Inserts 32 blank characters over which you can type a new word or phrase. If you don't need this many blank characters, use the A F10 delwrd keys to delete any extra blanks.
F15 INDENT	Inserts two blank characters in front of any marked text. If no text is marked, two blank characters are inserted before the current line.

Inserting with Subcommands

There are several subcommands that enable you to insert characters, lines, words, text, and text from other files.

Inserting Characters

To insert characters, use the INSERT_CHARACTERS subcommand. This subcommand inserts a string of characters before a specified location in the file. Format of the subcommand is:

INSERT_CHARACTER (INSERT_CHARACTERS, INSC, or IC)

NEW_TEXT=string INSERTION_LOCATION=integer or keyword value INSERTION_COLUMN=integer or keyword value STATUS=status variable

The NEW_TEXT (NT) parameter specifies the text to be inserted. If NEW_TEXT is omitted, one space character is assumed.

The INSERTION_LOCATION (IL) parameter specifies the line in which the text is to be inserted. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The INSERTION_COLUMN (INSERTION_COLUMNS or IC) parameter specifies the column before which you want the insertion to begin. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If INSERTION_COLUMN is omitted, CURRENT is assumed.

The following are examples of how you might use the INSERT_CHARACTERS subcommand.

insert_characters 'Short comment'

Inserts the text (Short comment) in front of the current column on the current line.

insc new_text='Last line' insertion_location=last column=7

Inserts the text (Last line) before column 7 on the last line of the file.

Inserting Lines

To insert lines, use the INSERT_LINES subcommand. The format of this subcommand is:

INSERT_LINES (INSL or I) NEW_TEXT=string PLACEMENT=keyword value INSERTION_LOCATION=integer or keyword value UNTIL=string STATUS=status variable

The NEW_TEXT (NT) parameter specifies the new line of text to be inserted. If NEW_TEXT is omitted, the text to be inserted is taken from the command input file.

The PLACEMENT (P) parameter indicates if you want the insertion to occur before or after the location specified by the LOCATION parameter. Values can be BEFORE (B) or AFTER (A). If PLACEMENT is omitted, AFTER is assumed. The function key inserts BEFORE.

The INSERTION_LOCATION (IL) parameter specifies the line after which or before which the insertion is to occur. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The UNTIL (U) parameter specifies a character that stops the insert. If the NEW_TEXT parameter is omitted, you are prompted to enter input until the editor encounters the character(s) you specify with this parameter as the last character(s) in a line. If UNTIL is omitted, ** is assumed.

The following are examples of how you might use the INSERT_LINES subcommand.

insert_lines 'NEW LINE'

Inserts the text (NEW LINE) after the current line.

i new_text='Insert' position=before

Inserts the text (Insert) before the current line.

insl nt='First line' insertion_location=first position=before

Inserts the text (First line) before the first line of the file.

```
insert_lines insertion_location=45 position=before until='#'
```

Inserts lines from the command input file before line 45 until a # character is encountered as the last character in a line.

Inserting Empty Lines

To insert empty lines, use the INSERT_EMPTY_LINES subcommand. The format of the subcommand is:

INSERT_EMPTY_LINES (INSEL) NUMBER=integer INSERTION_LOCATION=integer or keyword value PLACEMENT=keyword value STATUS=status variable

The NUMBER (N) parameter specifies the number of empty lines to insert. Values can be any integer from 1 through 262,143. If NUMBER is omitted, a value of 1 is assumed.

The INSERTION_LOCATION (IL) parameter specifies the line at which the insertion is to occur. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The PLACEMENT (P) parameter specifies whether the insertion is to occur after or before the specified line or lines. Values can be BEFORE (B) or AFTER (A). If PLACEMENT is omitted, AFTER is assumed.

The following examples show how you might use the INSERT_EMPTY_LINES subcommand:

insel number=20 insertion_location=30 placement=before

Inserts 20 empty lines before line 30.

insel number=2 insertion_location=50

Inserts two empty lines after line 50.

Inserting Words

To insert words, use the INSERT_WORD subcommand. This subcommand inserts a string or 32 blank characters before a specified column in a line. Format of the subcommand is:

INSERT_WORD (INSW)

NEW_TEXT=string INSERTION_LOCATION=integer or keyword value INSERTION_COLUMN=integer or keyword value STATUS=status variable

The NEW_TEXT (NT) parameter specifies the string to be inserted. If NEW_TEXT is omitted, 32 space characters are assumed.

The INSERTION_LOCATION (IL) parameter specifies the line in which the word is to be inserted. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The INSERTION_COLUMN (INSERTION_COLUMNS or IC) parameter specifies the column before which the insertion is to occur. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If INSERTION_COLUMN is omitted, CURRENT is assumed.

The following examples show how you might use the INSERT_WORD subcommand:

insert_word

Inserts 32 spaces in front of the current column of the current line.

insw new_text='LINE' insertion_location=10 insertion_column=1

Inserts the word LINE in front of line 10.

Indenting Text

There is also a subcommand designed specifically to insert blank characters in front of lines of text; the INDENT_TEXT subcommand. Format of the subcommand is:

INDENT_TEXT (INDT) OFFSET=integer NUMBER=integer or keyword value LINE=range of integer or keyword value STATUS=status variable

The OFFSET (O) parameter specifies the number of columns to indent the specified block of text. If you specify a negative value, that number of characters will be deleted from the beginning of the lines in the block of text. If OFFSET is omitted, a value of 1 is assumed.

The NUMBER (N) parameter specifies the number of lines to be indented. Values may be an integer or any of the LINE keyword values specified in the Common Parameters section of chapter 4. If you specify a range for the LINE parameter, the NUMBER parameter assumes a value of ALL. Otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be indented. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single line is specified, only that line is indented. If LINE is omitted, CURRENT..LAST is assumed.

The following examples show how you might use the INDENT_TEXT subcommand.

indent_text offset=5 line=a

Indents all lines five spaces.

indent_text line=mark

Indents all marked lines one space.

indt

Indents the current line one space.

indent_text offset=-7 line=25..L

Deletes the first 7 characters from lines 25 through the last line.

Inserting Files

To insert the text of another file into the current file, use the READ_FILE command. Format of the subcommand is:

READ_FILE (REAF) FILE=file INSERTION_LOCATION=integer or keyword value PLACEMENT=keyword value MULTI_PARTITION=boolean STATUS=status variable

The FILE (F) parameter specifies the name of the file from which the text is to be inserted. The entire file will be inserted. This parameter is required.

The INSERTION_LOCATION (IL) parameter specifies the line at which the insertion is to occur. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The PLACEMENT (P) parameter specifies if you want the insertion to occur before or after the line specified by the INSERTION_LOCATION parameter. Values may be AFTER (A) or BEFORE (B). If PLACEMENT is omitted, AFTER is assumed.

The MULTI_PARTITION (MP) parameter specifies whether the editor is to change the end-of-partition delimiters in the file to WEOP directives. When the value is TRUE, the editor changes the delimiters to WEOP directives. When the value is FALSE, the editor stops reading the file at the first end-ofpartition boundry it encounters. If MULTI_PARTITION is omitted, FALSE is assumed. Refer to Creating Multipartition Files later in this chapter for more information. The following examples show how you might use the READ_FILE command.

read_file file=ernie insertion_location=320

Inserts the contents of file ERNIE into the current file immediately after line 320.

reaf file=bert insertion_location=last_mark position=before

Inserts the contents of file BERT into the current file immediately before the last marked line.

NOTE

The READ_FILE subcommand reads the external copy of the specified file. If you have been editing a file within the editor and have not made the changes permanent and then specify that file on a READ_FILE subcommand, an external copy is inserted, not the changed working copy.

For more information on copying and moving parts of files, refer to the sections on Copying and Moving later in this chapter.





Deleting

There are several function keys and subcommands which enable you to delete such things as characters, lines, and blank lines from your file. The function keys and subcommands are described in this section.

Deleting with Function Keys

The following function keys delete text:

Key(s)	Function
(DLETE)	Deletes the current character.
	Deletes the current line.
🛆 F9 delel	Deletes all empty lines, starting with the current line, until a nonempty line is encountered.
← F10 delwrd	Deletes the current word. If the cursor is on an alphanumeric character or a #, \$, @, or _ that character and any surrounding characters are deleted until a nonalphanumeric character (or blank character) is encountered. If the cursor is on a blank character, all blanks are deleted until a nonblank character is encountered.
F15 dedent	Deletes the first two characters in each line of all marked text.

Deleting with Subcommands

There are several subcommands that delete characters, lines, words, and text.

Deleting Characters

To delete characters, use the DELETE_CHARACTERS subcommand. Format of the subcommand is:

DELETE_CHARACTERS (DELC or DC) NUMBER=integer or keyword value LINE=integer or keyword value COLUMN=integer or keyword value STATUS=status variable

The NUMBER (N) parameter specifies the number of characters to be deleted. Values may be an integer or the keyword ALL. If you omit the NUMBER parameter and specify a range for either the LINE or COLUMN parameters, ALL is assumed. Otherwise, if NUMBER is omitted, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a line in which characters will be deleted. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the columns of the specified line(s) to be deleted. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If COLUMN is omitted, CURRENT is assumed.

Deleting Lines

To delete lines, use the DELETE_LINES subcommand. This subcommand enables you to delete single lines or a range of lines. Format of the subcommand is:

DELETE_LINES (DELL)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean STATUS=status variable

The TEXT (T) parameter specifies a block of text to be deleted, beginning with the line containing the first string to the the line containing the second string. If TEXT is omitted, a value is not supplied by the editor and the lines to be deleted are determined by the NUMBER and LINE parameters.

The NUMBER (N) parameter specifies the number of lines to be deleted from the current line forward. Values may be numbers or the keyword ALL. If you omit the NUMBER parameter and specify a range of lines for the LINE parameter, this parameter assumes a value of ALL. Otherwise, a value of 1 is assumed. If you specify a range for the TEXT parameter, the NUMBER parameter specifies the number of text blocks to delete.

The LINE (LINES or L) parameter specifies a range of lines to be deleted. Values may be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If you specify a single integer or keyword value, only that line is deleted. If you specify LINE=MARK, marked lines are deleted in their entirety, even if the boundary implied by the mark is STREAM. If LINE is omitted, ALL is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter specifies whether to search for the specified text string as a word. When the value is TRUE, it instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor to use the values used for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current DELETE_LINES subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

Deleting Blocks of Text

To delete blocks of text, use the DELETE_TEXT subcommand. Format of the subcommand is:

DELETE_TEXT (DELT or D)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value COLUMN=range of integer or keyword value BOUNDARY=keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean STATUS=status variable

The TEXT (T) parameter specifies the text strings which form the boundaries of the block of text to be deleted. If a single text string is specified, the block to be deleted will contain one line. If two text strings are specified, the search for the second string begins after the first string is found. When the second string is found, the text between the two strings (including the strings) is deleted. When you specify TEXT, the BOUNDARY parameter is LINE. If TEXT is omitted, the LINE and NUMBER parameters determine the lines to be deleted.

The NUMBER (N) parameter specifies the number of blocks to be deleted. Values may be an integer or the keyword ALL (A). If NUMBER is omitted, and a range of values is specified for the LINE parameter, ALL is assumed. Otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be deleted. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single integer is specified, only that line is deleted. If LINE is omitted, CURRENT..LAST is assumed.

The COLUMN (COLUMNS or C) parameter specifies the columns to be deleted in the specified lines. Values can be numbers from 1 through 256 or any of the COLUMN keyword values described in the Common Parameters section of chapter 4. If COLUMN is omitted, the DELETE_TEXT subcommand deletes complete lines.

The BOUNDARY (B) parameter specifies the type of boundary that will limit the search. Values can be LINE or STREAM as described in the Common Parameters section of chapter 4. If BOUNDARY is omitted, LINE is assumed. If a value for COLUMN is specified, STREAM is assumed. The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter specifies whether to search for the specified text as a word. When the value is TRUE, it instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor to use the values used for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current DELETE_TEXT subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

The following are examples of how you might use the DELETE_TEXT subcommand.

d

Deletes the current line.

d text='first'...'last'

Deletes all lines from the line containing first to the line containing last.

Deleting Words

To delete words, use the DELETE_WORDS subcommand. What is deleted depends on where the cursor is positioned. If positioned on an alphanumeric character, the current word is deleted. If positioned on any other character, that single character is deleted. If the cursor is positioned on a blank character, the current character and any following blanks are deleted. Subcommand format is:

DELETE_WORD (DELW or DW)

LINE=integer or keyword value COLUMN=integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies a line in which the deletion is to occur. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the column to begin the deletion. Values can be an integer or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If COLUMN is omitted, CURRENT is assumed.

The following are examples showing how you might use the DELETE_WORD subcommand.

```
delete_word line=50
```

Deletes the first word in line 50 (assuming the current column is 1).

```
delete_word line=200 column=7
```

Deletes the word that has a character in column 7 of line 200.

Deleting Empty Lines

To delete a block of blank lines, use the DELETE_EMPTY_LINES subcommand. This deletes lines until a nonblank line is encountered. Format is:

```
DELETE_EMPTY_LINES (DELEL)
```

LINE=range of integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies the line at which the deletion of blank lines is to begin and end. Values may be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If LINE is omitted, CURRENT is assumed. If the line you specify is not a blank line, nothing happens.

Deleting Characters from the Beginning of Lines

You can use the INDENT_TEXT subcommand to delete characters from the beginning of lines. Format of the subcommand is:

INDENT_TEXT (INDT) OFFSET=integer NUMBER=integer or keyword value LINE=range of integer or keyword value STATUS=status variable

The OFFSET (O) parameter specifies the number of columns to indent the block of text. Values can be an integer. If you specify a negative value, that number of characters will be deleted from the beginning of the lines in the block of text. If OFFSET is omitted, a value of 1 is assumed.

The NUMBER (N) parameter specifies the number of lines to be indented. Values may be a line number or any of the NUMBER keywords specified in the Common Parameters section of chapter 4. If you specify a range for the LINE parameter, this parameter assumes a value of ALL. Otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be indented. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single line is specified, only that line is indented. If LINE is omitted, CURRENT.LAST is assumed.

The following examples show how you might use the INDENT_TEXT subcommand.

```
indent_text offset=-5 line=all
```

Deletes the first 5 characters from all lines ranging from the first line to the last line.

indt offset=-10

Deletes the first 10 characters from the current line.

```
indt offset=-7 line=25..l
```

Deletes the first 7 characters from lines 25 through the last line.

Replacing

There are two ways to replace old text with new text. For screen mode, the easiest way is to just type the new text over the old. For line mode and screen mode you can also use subcommands.

Replacing Lines

To replace lines of text, use the REPLACE_LINES subcommand. This deletes the old lines and replaces them with the lines you specify. Format of the subcommand is:

REPLACE_LINES (REPL)

TEXT=range of string NEW_TEXT=string NUMBER=integer or keyword value LINE=range of integer or keyword value UNTIL=string UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean STATUS=status variable

The TEXT (T) parameter specifies the text you want to replace. If a range of text is specified, the lines containing the entire range is replaced with the string supplied in the NEW_TEXT parameter. If TEXT is omitted, the LINE and NUMBER parameters determine the lines to be replaced.

The NEW_TEXT (NT) parameter specifies the new line of text that is to replace the specified line(s). If you omit this parameter, you are prompted to enter text line by line until the editor encounters the character(s) specified by the UNTIL parameter.

The NUMBER (N) parameter specifies the number of lines to replace. Values can be an integer or the keyword ALL. If you omit this parameter and specify a range for the LINE parameter, the assumed value is ALL. If a range of text is specified, the NUMBER parameter indicates the number of blocks of text to replace. Otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines in which the replacement is to occur. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single value is specified, only that line is replaced. If LINE is omitted, CURRENT..LAST is assumed.

The UNTIL (U) parameter specifies a character that stops input of replacement text. If the NEW_TEXT parameter is omitted, you are prompted to enter input until the editor encounters the character(s) you specify with this parameter as the last character(s) of a string. If UNTIL is omitted, ** is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter specifies whether to search for the specified text string as a word. When the value is TRUE, it instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor on how to use the values for the last TEXT, NEW_TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, NEW_TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for <u>TEXT, NEW_TEXT, UPPER_CASE</u>, or WORD, the new values for TEXT, NEW_TEXT, UPPER_CASE, or WORD, the new values for TEXT, NEW_TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current REPLACE_LINES subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

The following are examples of how you might use the REPLACE_LINE subcommand:

replace_line new_text='text' line=30..l

Replaces lines 30 to the end of the file with a line that says: text.

repl

Replaces the current line with text you are prompted to enter until the editor encounters ** at the end of one of the replacement lines.

Replacing Blocks of Text

To replace blocks of text, use the REPLACE_TEXT subcommand. The format of the subcommand is:

REPLACE_TEXT (REPT or R)

TEXT=string NEW_TEXT=string NUMBER=integer or keyword value LINE=range of integer or keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean VETO=boolean STATUS=status variable

The TEXT (T) parameter specifies the text string to replace in the specified block of text. If TEXT is omitted, REPEAT_SEARCH is required.

The NEW_TEXT (NT) parameter specifies the replacement text for the string specified in the TEXT parameter. If NEW_TEXT is omitted, the string specified in the TEXT parameter is deleted.

The NUMBER (N) parameter specifies the number of times the original text is to be replaced within the block of text. Values may be an integer or the keyword ALL (A). If you omit this parameter and specify a range of values for the LINE parameter, ALL is assumed. Otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies the range of lines affected by the replacement. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single line is specified, only that line is replaced. If LINE is omitted, CURRENT..LAST is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters ($@, #, $, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.$

The REPEAT_SEARCH (RS) parameter instructs the editor on how to use the values for the last TEXT, NEW_TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, NEW_TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, NEW_TEXT, UPPER_CASE, or WORD, the new values for TEXT, NEW_TEXT, UPPER_CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current REPLACE_TEXT subcommand. If you omit this parameter, TEXT is required. Also, if REPEAT_SEARCH is omitted, FALSE is assumed.

The VETO (V) parameter enables you to display a directory of replaced lines, allowing you to veto any of the displayed lines affected by the subcommand and also to choose a line at which you want the cursor to be positioned, as described in the VETO Parameters section of chapter 4. If VETO is omitted, FALSE is assumed.

The following are examples of how you might use the REPLACE_TEXT subcommand.

```
replace_text text='water' new_text='wine'
```

Changes the first occurrence of water to wine from the current line to the last.

```
replace_text repeat_search=true
```

Uses the same values for TEXT, NEW_TEXT, UPPER_CASE, and WORD parameters specified on a previous subcommand.

```
rept text='$' new_text='#'
```

Replaces the first occurrence of with $\# \$ from the current line to the last.

```
r text='Jill' new_text='Betty' line=50..last
```

Replaces all occurrences of Jill with Betty from line 50 to the end of the file.

Marking

Marking text enables you to specify a group of text to be processed later by another subcommand. When marked text is referenced by another subcommand, the editor remembers the lines, columns, and file containing the marked text. When the marked text is contained in a file other than the current file, the file containing the marked text is made current. Text remains marked until you do one of the following:

- Mark a new region of text.
- Unmark the text with the UNMARK subcommand.
- Delete or move all of the marked text.
- Close the file containing the marked text.
- Undo.

There are several function keys and subcommands which enable you to mark and unmark text bounded by lines or characters.

Marking with Function Keys

Use the function keys provided to mark text in screen mode. These keys are:

Key	Function
F1 MARK	Marks a line of text to be processed later. The marked text is highlighted on terminals with that capability. To mark a range of lines, position the cursor on the first line of the range and press F1 MARK, move the cursor to the last line, and press F1 MARK again. All lines in the range are then highlighted.
🛆 F1 Unmrk	Unmarks any marked text.
F2 Chrmk	Marks a character in the text to be processed later. The marked text is highlighted on terminals with that capability. To mark a range of characters, position the cursor on the first character of the range and press F2 Chrmk, move the cursor to the last character of the range, and press F2 Chrmk again. The text, from the first character through the last, is then highlighted.

Marking Lines with Subcommands

Use the MARK_LINES subcommand to mark a line to be processed later. The format of the subcommand is:

MARK_LINES (MARL or ML) LINE=range of integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies a line or range of lines to be marked. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a line is specified, only that line is marked. If a single line is specified and another single line is already marked, the lines between the two will become marked. If a range is specified, the entire range is marked and any other marks are unmarked. Marked text can be processed by subcommands that insert, delete, move, copy, and replace text. If LINE is omitted, the current line is assumed.

Marking a Box with Subcommands

Use the MARK_BOX subcommand to mark a rectangular area of text. The format of the subcommand is:

MARK_BOX (MARB or MB)

LINE=range of integer or keyword value COLUMN=integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies the lines in which the corners of the box reside. Values can be a line number or any of the LINE keyword parameters described in the Common Parameters section of chapter 4. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the column in which a corner of the box resides. Values can be any number from 1 to 256, or any of the COLUMN keyword parameters described in the Common Parameters section of chapter 4. If COLUMN is omitted, CURRENT is assumed.

For example, to mark a box with dimensions: 5 lines by 1 column, enter:

```
mark_box lines=4..8 columns=12
```

The marked area covers lines 4, 5, 6, 7, and 8 at column 12.

NOTE

At this time, the only operations supported for box marks are the \$MARK_ FIRST_COLUMN, \$MARK_FIRST_LINE, \$MARK_LAST_COLUMN, \$MARK_LAST_LINE, and \$MARK_TYPE functions. These allow users to implement their own SCL procedures to operate on the rectangular area of text. None of the CDC-supplied editor subcommands support box marks.

Marking Characters with Subcommands

Use the MARK_CHARACTER subcommand to mark specific characters. This subcommand specifies column boundaries for text to be processed later by another subcommand. Format of the subcommand is:

MARK_CHARACTER (MARC or MC) LINE=range of integer or keyword value COLUMN=range of integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies the lines in which the marked characters reside. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the columns to be marked within the specified line(s). Values can be any number from 1 to 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4. You may not specify a range. If COLUMN is omitted, CURRENT is assumed.

The following subcommands show how you might use the MARK_CHARACTERS subcommand.

mark_character

Marks the current character in the current line.

mark_character line=40..50 column=30

Marks column 30 of line 40 through line 50.

mark_character column=7

Marks column 7 of the current line.

Unmarking with Subcommands

To explicitly unmark lines or characters you have previously marked, use the UNMARK subcommand. This subcommand cancels the marks on the file. The format of the subcommand is:

UNMARK (UNM)

STATUS=status variable

You can implicitly unmark text, mark a new region of text, or delete the marked text when you enter UNDO. Also when you enter the END_FILE subcommand, you can close a file containing marked text.

Saving Positions with Subcommands

The following subcommands enable you to save the current column, line, and file name and to return to that file position later.

To save a position in a file, move the cursor to the position you want to save, press (HOME), and enter the SAVE_POSITION. It saves the current column, line, and file name for reference later by the RESTORE_POSITION subcommand. Format of the subcommand is:

SAVE_POSITION (SAVP) STATUS=status variable

The SAVE_POSITION can save only one position. A position is saved until you either enter another SAVE_POSITION subcommand or enter an EXCHANGE_POSITION subcommand, or you close the file.

Pressing the (DATA) key is the equivalent to entering the SAVE_POSITION subcommand.

To return to this position later, use the RESTORE_POSITION subcommand. Format of the subcommand is:

RESTORE_POSITION (RESP)

STATUS=status variable

To save the current position in the file you are editing while you return to a previously saved position, use the EXCHANGE_POSITION subcommand. The format of the subcommand is:

EXCHANGE_POSITION (EXCP)

STATUS=status variable

Pressing the **BACK** key is the equivalent to entering the EXCHANGE_ POSITION subcommand. You must save a position with the SAVE_ POSITION subcommand before you can use the EXCHANGE_POSITION subcommand.

Copying

You can copy text to different spots in the same file or to a different working file. You can also copy text to and from external files.

Copying with Function Keys

To copy text in screen mode, use either the F1 MARK or F2 Chrmk key along with the F14 (COPY) key. The keys perform the following functions.

Key	Function
F1 MARK	Marks the current line as a boundary for text to be copied. Move the cursor up or down to the second boundary and press F1 MARK again to create a block of lines to be copied. If only one line is to be copied, press F1 MARK only once.
F2 Chrmk	Marks the current character as a boundary of a series of characters to be copied. Move the cursor to the second boundary and press F2 Chrmk again to create the range of characters to be copied. If only one character is to be copied, press F2 Chrmk only once.
F14 (Сору)	Copies any marked text to immediately before the current line if you used the F1 MARK key or the current character if you used the F2 Chrmk key. If no marks are set, the current line is copied to the next line.

To copy text from one file to another, use the SET_SCREEN_OPTIONS subcommand, F1 MARK, and F14 COPY). Using the SET_SCREEN_OPTIONS subcommand, you can display more than one file on the screen at a time (the SET_SCREEN_OPTIONS subcommand is described in detail in chapter 7, Selecting Editor Options). You can then mark the lines you want to copy, move the cursor to the position in the file at which you want the copied text to appear, and press F14 COPY).

For example, you are editing file GROUCHO and want to copy 5 lines from file HARPO. First, press

(HOME)

and enter

```
set_screen_options splits=2
```





Move the cursor to the text area of the lower split of the screen and press:

(HOME)

Enter:

edit_file harpo

File HARPO appears:

F.()			at 4			,
File: 6	COULHO LINES	I Inru o	Size o			
This is 1	file GROUCHO.					
It also	is an example	file.				
It can al	lso contain an	y type of fi	Le informatio	on you want.		
File: H	IRPO Lines 1	Thru 10	Size 10			
This is 1	ile HARPO.					
Line 1						
Line 2						
Line 3						
Line 5						
This is s	utill file HAR	PO.				
Unmrk F1 MARK	Boxmk F2 Chrmk F3	LAST er FIRST F4 m	ndlin iddle F5 UND	0 F6 END	locnxt F7 LOCATE F8	80/132 locall
22000) - F F F F F F	en an the second se	aanaa ah a	ann an 1869 an	ana di 1990 marina da	addittiitheen en de de de de distrikte	ana



Move the cursor to the first line of text you want copied to file GROUCHO:

COPYING

Press F1 MARK . The line is highlighted.

This is	file GROUCHO		6 Size 6			
It also	is an example	file.				
It can a	ilso contain a	ny type of	file infor	Mation you wa	int.	
:iia• ⊔						
his is	file HARDO	<u>i ihru 10</u>	Size 10			
ine 1	Rent Va					
ine 2 ine 3						
ine 4 ine 5						
tis is s	till file HAR	P0.				

TILE: GROUG		26.0	
This is file	SROUCHO.		
It also is an	example file.		
It can also d	ontain any type of file i	information you want.	
File: HARPO	Lines 1 Thru 10 Si:	te 10	
This is file	HARPO.		
Line 1			
Line 1 Line 2 Line 3			
Line 1 Line 2 Line 3 Line 4			
Line 1 Line 2 Line 3 Line 4 Line 5			
Line 1 Line 2 Line 3 Line 4 Line 5 This is still	file HARPO.		

Press F1 MARK again. The text from the first marked line through the last marked line are highlighted:

File: GROUCHO L	ines 1 Thru 6	Size 6			
This is file GROUC	40.				
It also is an exam It can also contai	nany type of file	e information	you want.		
File: HARPO Lin	<u>es 1 Thru 10 :</u>	Size 10			
Line 1					
Line 3 Line 4					
This is still file	HARPO.				
Unmrk Boxmk F1 MARK F2 Chrmk	LAST end F3 FIRST F4 mid	dlin ddle F5 UNDO	F6 END F7	LOCATE F8	80/132 locall
<u> </u>					





Move the cursor to the location in file GROUCHO at which you want the copied text to appear:

File: GROUCHO Lines 1 Thru 6 Size 6	
This is file GROUCHO.	
It also is an example file.	
It can also contain any type of file information ;	you want.
File: HARPO Lines 1 Thru 10 Size 10	
This is file HARPO.	
Line 1 Line 2	
Line 3 Line 4	
Line 5	
This is still file HARPO.	
Upper Daugh	
F1 MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO	locnxt 80/132 Fé END F7 LOCATE F8 locall

Press **COPY**. The text is copied to file GROUCHO:

File: GROUCHO Lines 1 Thru 11 Size 11 This is file GROUCHO. It also is an example file. Line 1 Line 2 Line 3 Line 4 Line 5 It can also contain any type of file information you want. File: HARPO Lines 1 Thru 10 Size 10 This is file HARPO. Line 1 Line 2 Line 3 Line 4 Line 5 This is still file HARPO. Unmrk Boxmk LAST endlin locnxt 80/132 F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall E1 MARK

The text remains marked until you UNDO, set new marks, or unmark them.

To return to editing just file GROUCHO, press:

(EDIT)

Copying Blocks of Text with Subcommands

To copy a block of text from one place to another within your working files use the COPY_TEXT subcommand. Format of the subcommand is:

COPY_TEXT (COPT or C)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value COLUMN=range of integer or keyword value INSERTION_LOCATION=integer or keyword value INSERTION_COLUMN=integer or keyword value PLACEMENT=keyword BOUNDARY=keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean STATUS=status variable

The TEXT (T) parameter specifies strings of text in the first and last lines of a block of text to be copied. If you enter only one string, the block of text to be copied will contain only one line. If you enter two strings, the search for the second begins immediately after the first is found. If you omit this parameter, the lines to be copied will be determined by the NUMBER and LINE parameters. If TEXT is omitted, and you specify the REPEAT_SEARCH parameter as TRUE, this parameter assumes the value last specified for the TEXT parameter on any subcommand.

The NUMBER (N) parameter specifies the number of blocks of text to be copied. Values for this parameter can be numbers or the keyword ALL (A). If you specify a range for the LINE parameter, this parameter assumes a value of ALL, otherwise a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be searched for the text to be copied. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single value is specified, only that line is searched. If LINE is omitted, CURRENT..LAST is assumed.

The COLUMN (COLUMNS or C) parameter specifies the range of columns to be searched for the text to be copied. The integers can be from 1 through 256 or any of the keyword values listed in the Common Parameters section of chapter 4. If COLUMNS is omitted, CURRENT is assumed.



The INSERTION_LOCATION (IL) parameter specifies the line before which or after which the line is to be copied (depending on the value of the PLACEMENT parameter). Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The INSERTION_COLUMN (INSERTION_COLUMNS or IC) parameter specifies the column before which or after which the text is to be copied (depending on the value of the PLACEMENT parameter). Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If INSERTION_COLUMN is omitted, CURRENT is assumed.

The PLACEMENT (P) parameter specifies if the copied lines are to appear before or after the location specified by the INSERTION_LOCATION parameter. Values can be BEFORE (B) or AFTER (A). If PLACEMENT is omitted, AFTER is assumed.

The BOUNDARY (B) parameter specifies the type of boundary that will limit the search. Values can be LINE or STREAM as described in the Common Parameters section of chapter 4. If BOUNDARY and COLUMNS are omitted, LINE is assumed. If a value for COLUMNS is specified and BOUNDARY is omitted, STREAM is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the text to be copied as a word. That is, the text you want to move is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string to be copied that is surrounded by blanks or punctuation characters (just as each word on this page is surrounded by blanks or punctuation characters). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor on how to use the values for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_ CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current COPY_TEXT subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.



```
copy_text line=30..40
```

Copies lines 30 through 40 to immediately after the current line.

copt text='one'...'five' insertion_location=71 placement=before

Copies the next occurrence of a block of text beginning with the line containing one and ending with the line containing five to immediately before line 71.

Copying Text Between Working Files and External Files

To copy text from the current working file to the external copy of a file, use the WRITE_FILE subcommand. (To copy text from another file to the current file, use the READ_FILE subcommand described later in this chapter.) The format is:

WRITE_FILE (WRIF)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value FILE=file reference UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean MULTI_PARTITION=boolean STATUS=status variable

The TEXT (T) parameter specifies the strings of text which identify the first and last lines of a block of text to be written. If you enter only one string, the block of text to be written will contain only one line. If you enter two strings, the search for the second begins immediately after the first is found and the cursor is positioned at the beginning of the first string. If you omit the TEXT parameter, the lines to be written will be determined by the NUMBER, LINE, and DIRECTION parameters. If you omit the TEXT parameter and specify the REPEAT_SEARCH parameter as TRUE, this parameter assumes the value last specified on a subcommand with a TEXT parameter.

The NUMBER (N) parameter specifies the number of blocks of text to be copied. Values for this parameter can be an integer or the keyword value ALL (A). If NUMBER is omitted, ALL is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be searched to locate the text to be copied. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single value is specified, only that line is searched. If LINE is omitted, ALL is assumed. The FILE (F) parameter specifies the file to which the text is to be copied. The text from the current file is written to the external copy of the file specified, not a working copy. The specified file may or may not be overwritten depending on the file position specified on the FILE parameter and on how you open your external files (refer to chapter 4, Before You Continue, for information on external files). If you have not changed how your external files are opened, you can avoid overwriting a file by adding .\$EOI to the file name. For example, to add text from the current file to the end of file ZAP, specify the FILE parameter as ZAP.\$EOI. If FILE is omitted, the external copy of the current file is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor on how to use the values for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_ CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current WRITE_FILE subcommand. If REPEAT_SEARCH is omitted, FALSE is assumed.

The MULTI_PARTITION (MP) parameter specifies whether the editor is to change WEOP directives to end-of-partition delimiters when the current working file is copied to an external file. When the value is TRUE, the editor changes WEOP directives to end-of-partition delimiters. When the value is FALSE, no substitution takes place. If MULTI_PARTITION is omitted, FALSE is assumed. Refer to Creating Multipartition Files later in this chapter for more information. The following subcommands show how you might use the WRITE_FILE subcommand.

```
write_file line=20..last file=zap
```

Copies lines 20 through the last line of the current file to file ZAP.

write_file text='int'...'end' number=3 file=nertz

Copies three blocks of text beginning with the line containing int and ending with the line containing end to file NERTZ.

```
write_file line=all file=splat
```

Copies all lines from the current file to the external copy of file SPLAT.

```
wrif file=ZAP.$E0I
```

Copies all of the current working file to the end of file ZAP.

wrif

Copies the working copy of the current file to the external copy. In other words, it makes your changes permanent without closing the current file and leaving the editor.

To copy lines from an external file into the current working file, use the READ_FILE subcommand. This subcommand copies all text from another file into the current file. Format of the subcommand is:

```
READ_FILE (REAF)

FILE=file

INSERTION_LOCATION=integer or keyword value

PLACEMENT=keyword value

MULTI_PARTITION=boolean

STATUS=status variable
```

The FILE (F) parameter specifies the name of the file from which the text is to be copied. The entire file will be copied. The READ_FILE subcommand reads text from the external copy of the specified file, not a working copy. This parameter is required.



The INSERTION_LOCATION (IL) parameter specifies the line before which or after which the line is to be copied (depending on the value of the PLACEMENT parameter). Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The PLACEMENT (P) parameter specifies if the copied lines are to appear before or after the location specified by the INSERTION_LOCATION parameter. Values can be BEFORE (B) or AFTER (A). If PLACEMENT is omitted, AFTER is assumed.

The MULTI_PARTITION (MP) parameter specifies whether the editor is to change the end-of-partition delimiters in the file to WEOP directives. When the value is TRUE, the editor changes the delimiters to WEOP directives. When the value is FALSE, the editor stops reading the file at the first end-ofpartition boundry it encounters. If MULTI_PARTITION is omitted, FALSE is assumed. Refer to Creating Multipartition Files later in this chapter for more information.

The following examples show how you might use the READ_FILE subcommand.

read_file file=ernie insertion_location=320

Copies the contents of file ERNIE into the current file immediately after line 320.

read_file file=bert insertion_location=last_mark placement=before

Copies the contents of file BERT into the current file immediately before the last marked line.

Moving

The editor enables you to move text to different locations in the same file or to a different file. Moving text using several function keys in screen mode is easy. There is also a subcommand which enables you to perform the same functions in line mode.

Moving with Function Keys

To move text in screen mode, use the F1 MARK (or F2 Chrmk) key along with the \bigcirc F14 Move keys. The keys perform the following functions.

Key	Function			
F1 MARK	Marks the current line as a boundary for text to be copied. Move the cursor up or down to the second boundary and press F1 MARK again to create a block of lines to be copied. If only one line is to be copied, press F1 MARK only once.			
F2 Chrmk	Marks the current character as a boundary of a series of characters to be copied. Move the cursor to the second boundary and press F2 Chrmk again to create the range of characters to be copied. If only one character is to be copied, press F2 Chrmk only once.			
F14 Move	Moves any marked text to immediately before the current line or character.			
🛆 F1 MARK	Cancels marks.			
🛆 F2 Chrmk	Cancels marks.			



Moving with Subcommands

To move a block of text from one place to another in the same file, use the MOVE_TEXT subcommand. Format of the subcommand is:

MOVE_TEXT (MOVT or M)

TEXT=range of string NUMBER=integer or keyword value LINE=range of integer or keyword value COLUMN=range of integer or keyword value INSERTION_LOCATION=integer or keyword value INSERTION_COLUMN=integer or keyword value PLACEMENT=keyword value BOUNDARY=keyword value UPPER_CASE=boolean WORD=boolean REPEAT_SEARCH=boolean STATUS=status variable

The TEXT (T) parameter specifies strings of text in the first and last lines of a block of text to be moved. If you enter only one string, the block of text to be moved will contain only one line. If you enter two strings, the search for the second begins immediately after the first is found. If TEXT is omitted, the lines to be moved will be determined by the NUMBER, and LINE parameters.

The NUMBER (N) parameter specifies the number of blocks of text to be moved. Values for this parameter can be numbers or the keyword ALL (A). If you specify a range for the LINE parameter, this parameter assumes a value of ALL; otherwise, a value of 1 is assumed.

The LINE (LINES or L) parameter specifies a range of lines to be searched for the text to be moved. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If a single value is specified, only that line is searched. If LINE is omitted, CURRENT..LAST is assumed.

The COLUMN (COLUMNS or C) parameter specifies the range of columns to be searched for the text to be moved. The integers can be from 1 through 256 or any of the COLUMN keyword values listed in the Common Parameters section of chapter 4. If COLUMN is omitted, CURRENT is assumed. The INSERTION_LOCATION (IL) parameter specifies the line before which or after which the line is to be moved (depending on the value of the PLACEMENT parameter). Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If INSERTION_LOCATION is omitted, CURRENT is assumed.

The INSERTION_COLUMN (INSERTION_COLUMNS or IC) parameter specifies the column before which or after which the text is to be moved (depending on the value of the PLACEMENT parameter). Values can be an integer from 1 through 256, or any of the COLUMN keyword values listed in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If INSERTION_COLUMN is omitted, CURRENT is assumed.

The PLACEMENT (P) parameter specifies if the moved lines are to appear before or after the location specified by the INSERTION_LOCATION parameter. Values can be BEFORE (B) or AFTER (A). If PLACEMENT is omitted, AFTER is assumed.

The BOUNDARY (B) parameter specifies the type of boundary that will limit the search. Values can be LINE or STREAM as described in the Common Parameters section of chapter 4. If BOUNDARY and COLUMNS are omitted, LINE is assumed. If a value for COLUMNS is specified and BOUNDARY is omitted, STREAM is assumed.

The UPPER_CASE (UC) parameter determines the significance of capitalization in a search. When the value is TRUE, the editor matches strings assuming there is no distinction between uppercase and lowercase letters. For example, B matches to both B and b. If the value is FALSE, the editor searches for the string exactly as you entered it. If you do not specify a value, FALSE is assumed.

The WORD (W) parameter, when the value is TRUE, instructs the editor to search for the specified string as a word. That is, the text you want to find is surrounded by nonalphanumeric characters. The most common use of the WORD parameter is to search for a string surrounded by blanks (just as each word on this page is surrounded by blanks). The first and last columns on the screen are also considered to be nonalphanumeric characters and are interpreted as boundaries. The characters @, #, \$, and _ are allowed as characters in words. When WORD is omitted, FALSE is assumed.

The REPEAT_SEARCH (RS) parameter instructs the editor on how to use the values for the last TEXT, UPPER_CASE, and WORD parameters. TRUE instructs the editor to use the same TEXT, UPPER_CASE, and WORD parameters as the last time you entered them on any subcommand, unless you have specified values for them on this subcommand. In other words, if you specify TRUE for REPEAT_SEARCH and specify values for TEXT, UPPER_CASE, or WORD, the new values for TEXT, UPPER_ CASE, and WORD are used. FALSE instructs the editor to use the parameters entered with the current MOVE_TEXT subcommand. If REPEAT_RESEARCH is omitted, FALSE is assumed.

Following are examples of how you might use the MOVE_TEXT subcommand.

```
move_text line=30..40
```

Moves lines 30 through 40 to immediately after the current line.

movt text='one'...'five' insertion_location=71 placement=before

Moves the next occurrence of a block of text beginning with the line containing one and ending with the line containing five to immediately before line 71.



Undoing

The editor provides you with the capability of undoing changes you have made to your files. There is a function key for use in screen mode and subcommands for use in either screen or line mode.

Undoing with a Function Key

The F5 UNDokey undoes any changes you have made since the last time you pressed (NEXT) or pressed a function key that supplies a (NEXT). (All function keys on a CDC 721 supply a (NEXT).) If you entered a subcommand or pressed (NEXT) to move the cursor, but made no changes to the file, the editor goes back until it encounters a change and that change is undone.

Each time you press F5 UNDO, changes that occurred between (NEXT) key entries are undone in reverse order.

For example, the following changes were made to a file in the order shown:

1. All abc's were changed to xyz's using the REPLACE_TEXT subcommand. (NEXT) was pressed.

2. The word water was changed to wine by typing wine over water.

3. The first line of the file was deleted using the (DLETE) keys.

Each time you enter F5 UNDO, the changes are undone as shown:

The first time	The first line of the file is returned and
F5 UNDO is entered.	the word wine is changed back to water.

The second time The xyz's are changed back to abc's.

Undoing with Subcommands

There are two subcommands which you can use to undo changes you have made to your file. The UNDO subcommand undoes changes one at a time in the reverse order they were made. The RESET_FILE subcommand cancels all changes you have made to your file since it was opened.

To undo changes one at a time, use the UNDO subcommand. For each UNDO, all changes made since the last time you pressed (NEXT) are canceled. As you continue to enter UNDO, changes that occurred between (NEXT) key entries are undone in reverse order.



The format of the subcommand is:

UNDO

STATUS=status variable

For example, the following changes were made to a file in the order shown.

- 1. Five lines in the file were deleted using the DELETE_LINES subcommand.
- 2. The next three lines are displayed using the LOCATE_TEXT subcommand.
- 3. A new line is entered using the INSERT_LINES subcommand.

Each time UNDO is entered, the following changes are undone:

The first time	The new line inserted is deleted.
UNDO is entered	

The second time The five lines deleted are returned.

You can undo only changes made to the current file. You can, however, make any file that was edited during this session the current file if it has not been closed with END_FILE, END_DECK, or a select deck subcommand. You can do this by entering the EDIT_FILE or EDIT_DECK subcommand, or, if your screen is split, by positioning the cursor in the file you want to be the current file.

To undo all changes you have made since opening the current file, use the RESET_FILE subcommand. This subcommand cancels all the changes you have made to your file since you last accessed the file using the EDIT_FILE command. Format of the subcommand is:

RESET_FILE (RESF) STATUS=status variable

Refer to Discarding Deck Changes, in chapter 8, for more information about undoing changes in decks.

Creating Multipartition Files

You can add or delete end-of-partition delimiters to any file you can edit [the file has a record type file attribute of variable (V)].

The SCU text-embedded directive WEOP represents the end-of-partition delimiter within the editor. The format of the directive is:

*WEOP

The asterisk (*) is the default key character. If you are editing decks, this character was defined when the library was created. For files, the asterisk is always used. The directive starts in column 1 and is the only thing on the line.

You can put this directive in your file or deck where you want end-ofpartition delimiters to appear. When you start editing, end-of-partition delimiters become WEOP directives. When you manipulate a file using WRITE_FILE or READ_FILE, the MULTI_PARTITION parameter determines what happens to the WEOP directives.

When you rewrite files or decks using the END, END_FILE, END_DECK, SELECT_DECK, SELECT_FIRST_DECK, SELECT_NEXT_DECK, SELECT_LAST_DECK, or QUIT subcommands, WEOP directives are always converted to end-of-partition delimiters.

For example, the following lines show a WEOP directive separating two blocks of text.

Text for the first partition. *WEOP Text for the second partition.

Text Formatting

There are several function keys and subcommands that enable you to format text. These function keys and subcommands help you make documents of almost any type including memos and reports.

Text Formatting with Function Keys

In addition to the basic editing function keys which enable you to insert, delete, and so on, the editor also provides function keys which apply specifically to text formatting. These keys are:

Key	Function
F10 inswrd	Inserts 32 spaces on the current line, enabling you to type in a word or phrase.
← F10 delwrd	Deletes the word on which the cursor is positioned. If the cursor is positioned on a blank, all blanks are deleted until a nonblank character is encountered.
F11 Break	Breaks the current line into two lines. The break occurs right before the current cursor position. The cursor is positioned at the end of the first line of the two resulting lines.
F12 Join	Joins the current line with the next line (does the opposite of the F11 Break key).
F16 FORMAT	Formats the current paragraph.
← F16 center	Centers the current line.

Text Formatting with Subcommands

There are also equivalent subcommands that perform the same functions. The subcommands you can use to break or join text are described here. In addition, there are subcommands you can use to set paragraph margins, format paragraphs, and center lines. These subcommands are also described here. For information on subcommands for inserting or deleting words, refer to the Inserting and Deleting sections earlier in this chapter.

Breaking Text

To break a line at a specific point in the line to make one line into two lines, use the BREAK_TEXT subcommand. The format of the subcommand is:

BREAK_TEXT (BRET or B)

LINE=integer or keyword value COLUMN=integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter identifies the line to be broken. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. Ranges are not allowed. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the column before which the break is to occur. In other words, the break occurs just before the column specified. Values can be an integer from 1 through 256, or any of the COLUMN keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If COLUMN is omitted, CURRENT is assumed.



Joining Text

To join two lines, use the JOIN_TEXT subcommand. This subcommand joins a line with the next line by appending the second to the first. Format of the subcommand is:

JOIN_TEXT (JOIT or J)

LINE=integer or keyword value COLUMN=integer or keyword value STATUS=status variable

The LINE (LINES or L) parameter specifies the first of the two lines to be joined. The line following the specified line is the line to which the first is joined. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If LINE is omitted, CURRENT is assumed.

The COLUMN (COLUMNS or C) parameter specifies the starting column to which the second line is moved. The second line is always added to the end of the first line. The columns parameter determines how far after the end of the first line the second will be added. Values can be an integer from 1 through 256, or any of the COLUMN keyword parameters described in the Common Parameters section of chapter 4 with the exception of MARK. Ranges are not allowed. If the value you specify is less than or equal to the length of the first line, the line is added to the end of the first line. If the value you specify is greater than the length of the first line, the editor fills the columns in between with blank characters. If COLUMN is omitted, CURRENT is assumed.

To indent text, use the INDENT_TEXT subcommand described in Inserting earlier in this chapter.

Setting Paragraph Margins

To set or change the paragraph margins, use the SET_PARAGRAPH_ MARGINS subcommand. In any subsequent FORMAT_PARAGRAPH or CENTER_LINE subcommands, the margins set with SET_PARAGRAPH_ MARGINS are used. The format is:

SET_PARAGRAPH_MARGINS (SETPM) MARGIN_COLUMN=range of integer OFFSET=integer

The MARGIN_COLUMN (MC) parameter specifies the right and left margins. If just one column number is specified, the left margin is set to that number. If MARGIN_COLUMN is omitted and you have not specified this subcommand previously in your terminal session, columns 1 and 65 are used. If you have specified the subcommand previously, any parameter not specified is not changed.

The OFFSET (O) parameter specifies the number of columns the first line in the paragraph is to be offset from the rest of the lines in the paragraph. If the number specified is a positive number, the first line of the paragraph is indented the number of columns specified. If zero is specified, the first line is not indented. If a negative value is given, the first line begins to the left of the rest of the paragraph. If OFFSET is omitted and you have specified this subcommand during this terminal session, the previous value is used. If you have not entered this subcommand previously and omit the OFFSET parameter, a value of 4 is assumed.

The following examples show how you might want to use the SET_PARAGRAPH_MARGINS subcommand.

set_paragraph_margins mc=7..72

Sets the paragraph margins to column 7 and 72.

set_paragraph_margins mc=10..70 o=5

Sets the margins to 10 and 70 and also specifies that you want the first line of the paragraph indented 5 columns.

Formatting Paragraphs

To adjust words or sentences in a paragraph of text to bring line lengths as close as possible to preset margins (see the SET_PARAGRAPH_MARGINS subcommand), use the FORMAT_PARAGRAPHS subcommand. The format of the subcommand is:

FORMAT_PARAGRAPHS (FORP)

LINE=integer or keyword value NUMBER=integer

The LINE (LINES or L) parameter specifies a range of lines to format. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4. If omitted, the current paragraph is assumed.

The NUMBER (N) parameter specifies the number of lines to format starting with the current line and moving forward. If LINE is omitted and NUMBER is specified, the number of lines in the current paragraph specified by the NUMBER parameter are formatted. If both LINE and NUMBER are omitted, the current paragraph is assumed.

The following example shows how you might want to use the FORMAT_PARAGRAPHS subcommand.

forp n=6

Adjusts the current line and the five subsequent lines to conform to previously set margins.

Using the FORMAT_PARAGRAPHS subcommand adds 2 blanks after '.', '!', and '?'.

Centering Lines

To center a line or lines between margins that have been previously set using the SET_PARAGRAPH_MARGINS subcommand, use the CENTER_ LINES subcommand. The format of this subcommand is:

CENTER_LINES (CENL) LINE=range of integer or keyword value NUMBER=integer

The LINE (LINES or L) parameter specifies a line or range of lines to be centered. If you specify only one line, the centering is limited to that line. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4.

If LINE is omitted, the lines to be centered are determined by the NUMBER parameter. If LINE and NUMBER are both omitted, CURRENT is assumed.

The NUMBER (N) parameter specifies the number of lines to be centered. If NUMBER is omitted, the lines to be centered are determined by the LINE parameter. If NUMBER and LINE are both omitted, CURRENT..LAST is assumed.

The following examples show how you might want to use the CENTER_ LINES subcommand.

center_lines number=5

Centers the next five lines.

cenl line=15..23

Centers all lines between lines 15 and 23.

cenl

Centers all lines between the current line and the last line.





In screen mode, you can use function keys to perform many editing tasks that would otherwise require you to enter subcommands. This chapter describes those function keys.

Editing Keys	6-1
CDC Standard Function Keys	6-2
Programmable Function Keys	6-3



In addition to the standard ASCII character keys, like (A) and (5), the editor supports three types of function keys: editing keys, CDC standard keys, and programmable keys. This chapter describes these keys and how you can redefine the programmable keys.

Editing Keys

The terminal does the processing of the editing keys. Since the editor is not involved, the operations are instantaneous. The editing keys and their functions are:

Key	Function
(INSRT)	Inserts a blank character, allowing you to type a new character over the blank. Some terminals put you in insertion mode, which enables you to enter the character itself rather than a space to type in the new character.
	Inserts a blank line.
DLETE	Deletes the current character.
(C) (DLETE)	Deletes the current line. Press:
	(NEXT)
	to fill in the lines at the bottom of the screen with text from the file.
ERASE	Backspaces a single character and deletes it.
	Blanks the current line and positions the cursor in column 1 of the blank line.
	Moves the cursor forward to the next tab. Refer to the SET_TAB_OPTIONS in chapter 7, Selecting Editor Options, for information on setting tabs.
()	Moves the cursor back to the immediately preceding tab.
(CLEAR)	Deletes all characters from the cursor to the end of the line.
(C) (CLEAR)	Clears the entire screen; the editor completely rewrites the screen if you clear it. If you suspect the screen does not look right, rewrite it by entering:
	(\Box) (CLEAR) + (NEXT)

CDC Standard Function Keys

The CDC standard function keys for the Viking 721 terminal perform operations that apply to nearly all applications. These operations are assigned to a key or to key combinations on most supported terminals. The keys and their functions are:

Key	Function
(FWD)	Displays the next screen in the file. The last line of the previous screen becomes the first line in the displayed screen.
(вкw)	Moves screen backward one screen. The top line then becomes the bottom line of the displayed screen.
UP	Positions the file so that the current line is at the top of the screen.
(DOWN)	Positions the file so that the current line is at the bottom of the screen and the cursor is centered vertically on the screen.
(HELP)	Displays the editor HELP file. The HELP file has brief descriptions of all editor subcommands.
(EDIT)	Returns you to editing one file (the file at the top of the screen) when you are in split screen mode. (EDIT) key can be used to leave the HELP file, returning you to the file you were editing.
STOP	Stops a search or replacement in progress.
(NEXT)	Terminates an input line.
(HOME)	Moves the cursor to the subcommand line where you can then enter subcommands.
(DATA)	Stores the current position for later use with the (BACK) key.
(BACK)	Returns you to the position stored with the \bigcirc ATA key and stores the current position for later use with the \bigcirc BACK key. Repeated entry of the \bigcirc BACK key toggles you between two locations.
	Positions the file so the cursor is at the last line (same as \bigcirc F3 (LAST)).
ВК W	Positions the file so the cursor is at the first line (same as $F3(FIRST)$).

Programmable Function Keys

You can define the programmable function keys to execute any of the editor subcommands. The labels of the programmable function keys are displayed at the bottom of your screen.

Usually, only the F1 through F8 function key prompts are displayed. The F9 through F16 prompts can be displayed using the SET_SCREEN_OPTIONS subcommand described in chapter 7. The lower line of the prompt indicates the unshifted key function; the upper line indicates the shifted key function. On the Viking 721 keyboard, the function key numbers are in raised letters adjacent to the keys. Some programmable function keys also have labels on the key itself. These labels are used by other applications and have no significance within the editor.

The original settings for the Viking 721 programmable function keys follow. (Settings for other terminals are included in chapter 11, Using Other Terminals in Screen Mode.)

Key	Function
Unmrk F1 MARK	Marks a line or lines to be used by another editor function or subcommand. The marked lines are shown in inverse video on terminals with that capability. When shifted,
	F1 Unmrk
	unmarks any marked text.
Boxmk F2 Chrmk	Marks a character or range of characters to be used by another editor function or subcommand. Marked lines or characters are displayed in inverse video on terminals with that capability. The shifted F2 function, Boxmk, is for a future release.
LAST F3 FIRST	Moves the cursor to the first line in the file. When shifted,
	F3 LAST
	moves the cursor to the last line of the file and vertically centers the line on the screen.
endlin F4 middle	Centers the current line vertically on the screen. When shifted,
	G F4 endlin

positions the cursor to the end of the current line.

PROGRAMMABLE FUNCTION KEYS

Key	Function
F5 UNDO	Cancels any marks you have set and undoes all changes you made to your file since the last time the text was changed.
F6 END	Stops the current editing session. Changes made to any open files are made permanent.
locnxt F7 LOCATE	Prompts you to enter the text you want to locate. When you enter the text and press:
	(NEXT)
	the editor locates the text, positioning the cursor at the first character of the text string. When shifted,



locates the next occurrence of the last text located.

80/132 F8 Locall



Prompts you for a string to find, locates all lines containing the string, and displays them in a directory-type display. To locate all occurrences of the last specified string, press (NEXT) when prompted to enter a search string. When shifted,

← F8 80/132

changes the screen format from 80 columns to 132 columns or from 132 columns to 80 columns.

Inserts a block of blank lines just before the current line. The number of lines inserted depends on the number of lines displayed on the current file. Two lines of old text are left at the top and bottom of the screen and blanks inserted between. When shifted,

合 F9 delel

deletes empty lines, starting with the current line, until a nonempty line is encountered.



For information on initial programmable function key settings for other supported terminals, refer to chapter 11, Using Other Terminals in Screen Mode.

To redefine the settings of these keys, use the SET_FUNCTION_KEY subcommand. This subcommand enables you to create your own set, or sets, of function keys. Format of the subcommand is:

SET_FUNCTION_KEY (SETFK) NUMBER=integer COMMAND_STRING=string SHIFT=boolean LABEL=string STATUS=status variable

The NUMBER (NUMBERS or N) parameter specifies the number of the key to be defined. Values can be an integer from 1 through 16. This parameter is required.

The COMMAND_STRING (CS) parameter specifies a string that contains the subcommand(s) or command(s) to be executed when the specified key is pressed. Values can be any editor subcommand or SCL command. When more than one is specified, separate them with semicolons. This parameter is required.

The SHIFT (S) parameter specifies whether the key is to be used with the **(SHIFT)** key. If SHIFT is omitted, FALSE is assumed.

The LABEL (L) parameter specifies a string that is to appear as the label on the screen for the specified key. If LABEL is omitted, the label becomes the first six characters of COMMAND_STRING.

The following are examples of how you might use the SET_FUNCTION_ KEY subcommand.

set_function_key number=4 command_string='dises' label='Status'

Defines the F4 key to execute the DISPLAY_EDITOR_STATUS subcommand with a screen label of F4 Status

setfk number=5 command_string='help' shift=true label='help'

Defines the shifted F5 key to execute the HELP subcommand. The key has a screen label of F5 help.

Include a SET_FUNCTION_KEY subcommand in your editor prologue file to redefine a function key each time you start the editor. The editor prologue file is described in chapter 10, Prologue and Epilogue Files.

This chapter describes the subcommands that can change many of the system-supplied settings for the editor and check the status of those settings.

Changing the Screen Display Setting Screen Options Exchanging Screen Widths Aligning the Screen	
Changing Tab Settings	
Changing Line Width	7-12
Changing the Verify Option	
Changing the Characters Allowed in a Word	
Changing How Lines Are Listed in Line Mode	7-15
Displaying Status Information	





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Changing the Screen Display

There are three subcommands enabling you to change the way the screen appears. These are the SET_SCREEN_OPTIONS, EXCHANGE_SCREEN_WIDTH, and ALIGN_SCREEN subcommands.

Setting Screen Options

The SET_SCREEN_OPTIONS subcommand enables you to change things like the number of lines that are listed on your screen, the number of files you can display at one time, and the number of columns displayed. Format for the subcommand is:



For all omitted parameters, the editor assumes you want to use the same values you used the last time you entered the SET_SCREEN_OPTIONS subcommand.

The MODEL (M) parameter specifies the terminal type you are using. Valid entries are:

Entry	Terminal
CDC721	CDC Viking 721
CDC722	CDC 722
CDC722_30	CDC 722-30
VT 100	DEC VT100
PC_CONNECT	IBM PC (or equivalent)
Z19	Zenith Z19 or Heathkit H19
Z29	Zenith Z29

If the MODEL parameter has not been specified on an earlier subcommand of the editing session, or by a SET_TERMINAL_ATTRIBUTES TRM=name command previous to the editing session, it is required.

7

The COLUMN (COLUMNS or C) parameter specifies the number of columns to be displayed. Values can range from 1 to the maximum number allowed on your terminal. When first entering the editor, it assumes a value of 80 columns. If COLUMN is omitted, the number of columns displayed remains the same.

The MENU_ROW (MENU_ROWS or MR) parameter specifies the number of rows of function key prompts to display. Values can be:

Value	Meaning
0	Displays no function key prompts.
1	Displays one line of prompts (F1 through F8).
2	Displays two lines of prompts (F1 through F16).

If MENU_ROW is omitted, the number of rows displayed remains the same. When starting the editor, a value of 1 is assumed.

The SPLIT (SPLITS or S) parameter specifies the number of areas of text (splits) you want displayed on the screen. (The screen is divided horizontally to show more than one file.) This number determines how many files you can display at the same time. Values can be numbers from 1 through 16. When entering the editor, the assumed value is 1. The size of the splits is determined by the integer you specify, each split using an equal number of lines. If SPLIT is omitted, the number of splits remains the same.

Pressing the (EDIT) key returns you to editing one file (SPLIT=1) when you are in split screen mode.

The following example shows how you might use the SET_SCREEN_OPTIONS subcommand.

In this example, you've already used the SET_SCREEN_OPTIONS and EDIT_FILE subcommands to display files GROUCHO and HARPO and you are editing them on a Viking 721 terminal:

his is ti	Le GROUCHO.					
it also is	an example f	ile.				
τ can als	o contain any	type of fit	e informatio	on you want.		
ile: HAR	PO Lines 1	Thru 10	Size 10			
'his is fi	le HARPO.					
ins is fi	Le HARPO.					
his is fi .ine 1 .ine 2	Le HARPO.					
his is fi ine 1 ine 2 ine 3	Le HARPO.					
his is fi ine 1 ine 2 ine 3 ine 4 ine 5	Le HARPO.					
his is fi ine 1 ine 2 ine 3 ine 4 ine 5 his is st	le HARPD.					
his is fi ine 1 ine 2 ine 3 ine 4 ine 5 his is st	Le HARPO. ill file HARPO).				
his is fi ine 1 ine 2 ine 3 ine 4 ine 5 his is st	le HARPO. ill file HARPO).	dlin		locaxt	80/132

You then want to display files CHICO and ZEPPO at the same time. To do this, press (HOME) and enter the following SET_SCREEN_OPTIONS subcommand.

set_screen_options splits=4

This adds two more text areas (splits) to the screen. The text from the current file, in this example HARPO, is displayed in the two new split areas:

	CARLO LINES			<u>*</u>			
This is f	ile GROUCHO.						
It also i	s an example f	ile.					
File: HA	RPO Lines 1	Thru 5	Size 10	<u>.</u>			
This is f	ile HARPO.						
Line 1							
Line 2 File: HA	RPO Lines 1	Thru 6	Size 10				
This is f							
	100 HING 0.						
Line 1 Line 2							
Line 3 File: HA	RPO Lines 1	Thru 6	Size 10	1			
This is f	ile HARPO.						
line 1							
Line 2							
Line 3 Unmrk	Boxmk	LAST	endlin			locnxt	80/132
F1 MARK	F2 Chrmk F3	FIRST F	4 middle Æ	5 UNDO	F6 END	F7 LOCATE	F8 locall



You then move the cursor to the split in which you want file CHICO to appear. In this example, the third split:

	They 5 Size 6		
This is file GROUCHO.	000 01		
It also is an example fi	le.		
File: HARPO Lines 1	Thru 5 Size 10		
This is file HARPO.			
Line 1 Line 2 File: HARPO Lines 1	Thru 6 Size 10		
This is file HARPO.			
Line 1 Line 2 Line 3 File: HARPO Lines 1	Thru 6 Size 10		
This is file HARPO.			
Line 1 Line 2 Line 3 Unmrk Boxmk F1 MARK F2 Chrmk F3	LAST endlin FIRST F4 middle F5 UND) F6 END F7 I	.ocnxt 80/132 .OCATE FB locall



Then, press (HOME) and enter:

edif chico

File CHICO appears in the third split area:

File: GROUCHO Lines 1 Thru 5 Size 6
This is file GROUCHO.
It also is an example file.
File: HARPO Lines 1 Thru 5 Size 10
This is file HARPO.
Line 1 Line 2 File: CHICO Lines 1 Thru 6 Size 6
This is file CHICO.
It's a sample file too.
Any type of information can go here also. File: HARPO Lines 1 Thru 6 Size 10
This is file HARPO.
Line 1 Line 2 Line 3 Unmrk Boxmk LAST endlin Locnxt 80/132 11 MB/r 52 Chamk 53 STEST 5/ middle 55 UNDO 54 END 57 UCATE 58 Local
TE PHAN TE UNITING ES FARST FR INTIQUE FS UNDO FO END TE LOCATE FO (DESL)

Then position the cursor in the fourth split, press (HOME) and enter:

edif zeppo

File ZEPPO appears:

File: GROUCHO Lines 1 Thru 5 Size 6 This is file GROUCHO. It also is an example file. File: HARPO Lines 1 Thru 5 Size 10 This is file HARPO. Line 1 Line 2 File: CHICO Lines 1 Thru & Size & This is file CHICO. It's a sample file too. Any type of information can go here also. File: ZEPPO Lines 1 Thru 6 Size 6 This is file ZEPPO. It is the fourth example file on this screen. Use the EDIT key to remove this file from the screen. LAST endlin Unmrk Boxmk locnxt 🐰 80/132 FT MARK F2 Chrmk F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 locall

Exchanging Screen Widths

The EXCHANGE_SCREEN_WIDTH subcommand allows you to change the width of the screen, alternating between the 80- and 132- column screen displays, for those terminals that support them. Format of the subcommand is:

EXCHANGE_SCREEN_WIDTH (EXCSW) STATUS=status variable

When entered, EXCHANGE_SCREEN_WIDTH changes the screen width to whichever column screen is not being used. For example, if you are using an 80-column screen, entering EXCSW changes it to a 132-column screen.

Aligning the Screen

The ALIGN_SCREEN subcommand enables you to change the alignment of your screen. Generally, the screen is not realigned unless the current position of the cursor is no longer within the bounds of what is on the screen. When this happens, the screen is realigned and repainted with the current line at the middle of the screen. Format of the subcommand is:

ALIGN_SCREEN (ALIS or A)

MIDDLE=integer or keyword value TOP=integer or keyword value BOTTOM=integer or keyword value OFFSET=integer STATUS=status variable

The MIDDLE (M) parameter specifies a line to be centered vertically on the screen. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. You cannot use this parameter with the TOP or BOTTOM parameters. If MIDDLE is omitted, CURRENT is assumed.

The TOP (T) parameter specifies a line to be positioned at the top of the screen. The resulting middle line of the screen becomes the current line. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. You cannot use this parameter if you have specified a MIDDLE or BOTTOM parameter. If TOP is omitted, a value is not supplied.

The BOTTOM (B) parameter specifies a line to appear at the bottom of the screen. The resulting middle line of the screen becomes the current line. Values can be an integer or any of the LINE keyword values described in the Common Parameters section of chapter 4 with the exception of ALL, MARK, and SCREEN. You cannot use this parameter with the TOP or MIDDLE parameters. If BOTTOM is omitted, no value is supplied.





The OFFSET (O) parameter specifies the number of columns to offset your view of the file on the screen. Values can be integers from 0 through 255. When an offset is specified, the number you specify is added to column 1 and the last column displayed. For example, if the rightmost column is 80, and you specify an OFFSET value of 20, the leftmost column becomes 21 and the rightmost column becomes 100. The following examples show how you might use the ALIGN_SCREEN subcommand.

align_screen top=current

Moves the current line to the top of the screen (same as the UP key).

align_screen bottom=current

Move the current line to the bottom of the screen (same as the **DOWN**) key).

alis offset=50

Displays column 51 as the leftmost column.

Changing Tab Settings

There are two subcommands designed specifically to change tab settings (to view which tab columns are currently set, use the DISPLAY_EDITOR_STATUS subcommand described later). These are the SET_TAB_OPTIONS and CLEAR_TAB subcommands. When editing SCU libraries, tab settings can be saved for each deck on the individual deck headers.

The SET_TAB_OPTIONS subcommand sets a tab character and the columns in which you want tabs set. Format of the subcommand is:

SET_TAB_OPTIONS (SETTO) CHARACTER=string TAB_COLUMN=list of integer STATUS=status variable

The CHARACTER (C) parameter specifies the tab character. When you enter a tab character within text typed from your terminal, the tab character moves any text from the current position to the next tab setting. If you enter a tab character after the last tab column, the tab character is included as part of the file text. Values can be any printable character. The horizontal tab character, chr\$(9), works well as a value. When you start editing a file, the tab character is set to the reverse slant (\). When you start editing a deck, the tab character is set as specified in the deck header (refer to the CREATE_DECK SCU subcommand in the SCL Source Code Management manual). If CHARACTER is omitted, the tab character is not changed.

The CHARACTER parameter is useful for line-mode terminals or for screenmode terminals that do not have a dedicated tab key. The CDC 722 is such a terminal. For terminals that do have a tab key, you will find it more useful than SET_TAB_OPTIONS C=chr\$(9) since a dedicated tab key moves the cursor instantly, while the interpretation of SETTO C=chr\$(9) cannot be seen until later.

The TAB_COLUMN (TAB_COLUMNS or TC) parameter specifies tab columns to be added to those already selected. A maximum of 256 columns can be specified as tab columns. Values can be any integer from 1 through 256 and must be enclosed in parentheses. To specify more than one column, enclose the values in parentheses, and separate the values with commas (,) or spaces. When you start editing a file, the tab columns selected are 1, 7, and 72. When you start editing a deck, the tab columns selected are those specified in the deck header (refer to the CREATE_DECK SCU subcommand in the SCL Source Code Management manual). If TAB_ COLUMN is omitted, the tab settings are not changed. The following examples show how you might use the ${\bf SET_TAB_OPTIONS}$ subcommand.

set_tab_options character=']' tab_column=(11,18,41,53)

Sets the tab character to] and adds columns 11, 18, 41, and 53 as tab columns.

set_tab_options character='!' tab_column=(3)

Sets the tab character to ! and adds column 3 as a tab column.

To delete all or some of the tab columns, use the CLEAR_TAB subcommand. Format of the subcommand is:

CLEAR_TAB (CLEAR_TABS or CLET)

TAB_COLUMN=keyword value or list of range of integer STATUS=status variable

The TAB_COLUMN (TAB_COLUMNS or TC) parameter specifies the columns to delete as tab columns. Values can be the keyword ALL or a list of integers from 1 through 256. Values can also be specified as a range, like 10..60. If TAB_COLUMN is omitted, all tabs are cleared.

For example, the following CLEAR_TAB subcommand clears columns 7 and 65 as tab columns:

clear_tab tab_column=(7,65)

Changing Line Width

You can have the editor send you a message when lines in your file exceed a specified limit. Doing this also causes the editor to add trailing spaces to lines with a character count less than the limit when you do string comparisons. Use the SET_LINE_WIDTH subcommand to set the limit. Format of the subcommand is:

SET_LINE_WIDTH (SETLW) WIDTH=integer STATUS=status variable

The WIDTH (W) parameter specifies the number of characters you can have on a line before a message is sent. Values can be integers from 0 through 256. Specifying a value of 0 eliminates the message and adds no trailing blanks to lines. When you create a file, an initial value of 0 is assumed; for decks, the value is taken from the deck header information. This parameter is required.

For example, if you press

(HOME)

and enter:

set_line_width width=80

Then you add a line that is 81 characters long. The message

---WARNING ES 510530--Line longer than current width.

appears. You can then choose to change the line or leave it. Once you have set the line width, you can locate long lines by using the LOCATE_WIDE_ LINES subcommand. The line width marker only remains in effect throughout an editing session. Each time you edit the file, you must enter the SET_LINE_WIDTH subcommand to change the line width and be warned when lines are too long.

Changing the Verify Option

The verify option displays lines that have been changed via the REPLACE_ TEXT subcommand and also displays the first and last lines of a block of text located with the LOCATE_TEXT subcommand. Format of the subcommand is:

SET_VERIFY_OPTION (SETVO) ECHO=boolean STATUS=status variable

The ECHO (E) parameter specifies if you want the verify option on or off. When you start the editor, the system sets the verify option to TRUE. Therefore in line mode, the verify option is on unless you specify ECHO=FALSE on a SET_VERIFY_OPTION subcommand. In screen mode, the verify option is always off. This parameter is required.

Changing the Characters Allowed in a Word

If you want to use the WORD parameters on subcommands which allow it and need to use characters within those words other than alphanumeric characters, use the SET_WORD_CHARACTERS subcommand to add or delete allowable characters. When starting the editor, allowable characters are any alphanumeric character plus the special characters @, #, \$, and _. The format of the subcommand is:

SET_WORD_CHARACTERS (SETWC) ADD=list of string DELETE=list of string STATUS=status variable

The ADD (A) parameter specifies the characters to add as allowable characters. Values can be any printable character. If you specify more than one character, separate them with commas (,) or spaces. If you add the comma as an allowable character, separate the characters with spaces. Enclose the values in parentheses and quotes. The space character cannot be specified as an allowable character. If ADD is omitted, no characters are added.

The DELETE (D) parameter specifies the characters to delete as allowable characters in a word. In other words, characters specified by this parameter will be treated as punctuation marks. If you specify more than one character, separate them with commas (,) or spaces. Enclose the values in parentheses and quotes. Values can be any printable character. The space character is not allowed. If DELETE is omitted, no characters are deleted.

The following examples show how you might use the SET_WORD_ CHARACTERS subcommand.

```
set_word_characters add=('&',' ','%')
```

Adds the characters &, |, and % as characters allowed in words.

```
set_word_characters add=('%') delete=('x')
```

Adds % as an allowable word character and deletes x as an allowable word character.

```
set_word_characters add=('-') delete=('$' '#' '_' '@')
```

Changes the characters allowed in words to those used in the NOS/VE COBOL compiler.

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Changing How Lines Are Listed in Line Mode

The SET_LIST_OPTIONS subcommand determines whether line identifiers are displayed in line mode. You would usually use this subcommand when you are editing decks and want to see the line identifiers. The editor does, however, add line identifiers to all files. The format of the subcommand is:

SET_LIST_OPTIONS (SETLO) LINE_IDENTIFIER=keyword value STATE=boolean STATUS=status variable

The LINE_IDENTIFIER (LI) parameter specifies where or if the identifier is to be displayed. Values can be LEFT (L), SEPARATE (S), or NONE (N). If you select LEFT, the line identifier appears on the same line as the text itself. If you specify SEPARATE, the identifier is displayed before the line of text as a separate line. If NONE is specified, the identifier is not displayed at all. If LINE_IDENTIFIER is omitted, NONE is assumed.

The STATE (S) parameter specifies whether the state of the modification associated with the line's introduction is to be displayed. Modification states are described in the SCL Source Code Management manual. When the value is TRUE, the state is displayed. When the value is FALSE, the state is not displayed. If STATE is omitted, FALSE is assumed.



Displaying Status Information

Three subcommands enable you to display information about the current status of the editor. The subcommands are DISPLAY_POSITION, DISPLAY_EDITOR_STATUS, and DISPLAY_COLUMN_NUMBERS.

The DISPLAY_POSITION subcommand displays the current line number, current column number, size of the file, and the line number of the top and bottom line of the screen on the message line. The format is:

DISPLAY_POSITION (DISP)

STATUS=status variable

For example, if you enter

display_position

you might get the following display:

Current Line: 12 Column: 10 Size: 109

The DISPLAY_EDITOR_STATUS subcommand enables you to check the status of a number of editor variables including the current tab character, tab columns, function key definitions, and so on. Format of the subcommand is:

DISPLAY_EDITOR_STATUS (DISES) STATUS=status variable

Following is the type of display you get when you enter DISPLAY_EDITOR_STATUS in screen mode.

SCU Edito	r version i	s 85037 †
Modificat	ion name is	EDIT_FILE
Current 1	ile is: SLO	CAL.ZAP
Line widt	n 1s U. Se	arch margins are 1 to 200
Set verit	y option FA	LSE. State FALSE. NO Mask character. Tab character is J. 10 ME EG 73
	us aret i p	21 06 61 01
Function	Keys:	
Key	Label	Connands
F1	MARK	mark_lines
Shift F1	Unmrk	urmark
F2	Chrmk	mark_characters
Shift F2	Boxmk	mark_boxes
F3	FIRST	align_screen top=first
Shift F3	LAST	align_screen middle=last
F4	middle	align_screen #iddle≍current
Shift F4	endlin	position_cursor l=c c=\$strlen(\$lt)+1
F5	UNDO	undo
F6	END	end
F7	LOCATE	<pre>locate_text t=\$screen_input('Enter search string')</pre>
Shift #7	locnxt	position_cursor; position_cursor rs=true
F8	locall	<pre>esv\$text=\$screen_input('Enter search string'); if esv\$t</pre>
Shift F8	80/132	exchange_screen_width
F9	insel	<pre>insert_empty_lines p=b n=\$split_size=4; position_cursor</pre>
Unmrk	Boxmk	LAST endlin locnxt 80/13
FI MARK	F2 Chrmk	F3 FIRST F4 middle F5 UNDO F6 END F7 LOCATE F8 local

To list the column numbers, use the DISPLAY_COLUMN_NUMBERS subcommand. The column numbers appear over the current line. The format of the subcommand is:

DISPLAY_COLUMN_NUMBERS (DISCN) ROW=integer STATUS=status variable

The ROW (R) parameter specifies which row on the screen is to show the column numbers. Values can be an integer from 1 through 255. In line mode, this parameter is ignored. If ROW is omitted, the column numbers are displayed over the current line.

[†] If you submit a Programming System Report (PSR) on the editor, please include the editor's version number.

For example, to list the column numbers of the third line

FIRST LINE SECOND LINE THIRD LINE FOURTH LINE

position the cursor on the line:

FIRST LINE SECOND LINE THIRD LINE FOURTH LINE

Press:

(HOME)

and enter

display_column_numbers

The following appears:

FIRST LINE SECOND LINE 123456789A123456789B123456789c123456789D123456789E123456789F123456789G123456789H FOURTH LINE

The column numbers shown correspond to columns in the file and not column numbers on the screen.

Editing SCU Decks

Starting the Editor	
Opening Decks	
Opening a Deck While Maintaining Other Decks	
Editing a Specific Deck	
Editing the First Deck on the Library	
Editing the Last Deck on the Library	
Editing the Next Deck on the Library	
Opening a Deck While Closing the Previous Deck	
Editing a Specific Deck	
Editing the First Deck on the Library	8-7
Editing the Last Deck on the Library	8-7
Editing the Next Deck on the Library	
Discarding Deck Changes	
Closing a Deck	
Stopping the Editor	



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Within the Source Code Utility (SCU) you can use the Full Screen Editor to make changes to decks. Besides using the full range of features available to you during file editing sessions, while editing decks you have an extra set of subcommands designed specifically for editing decks:

EDIT DECK EDIT_FIRST_DECK EDIT_LAST_DECK EDIT NEXT DECK SELECT_DECK

SELECT_FIRST_DECK SELECT LAST DECK SELECT_NEXT_DECK RESET DECK END DECK

X

As with files, you can work on more than one deck during an EDIT LIBRARY session. Also if your terminal has screen handling capabilities, you can activate the screen and edit decks in screen mode.

NOTE

When editing, you can modify only one deck at a time. For example, a REPLACE_TEXT subcommand can affect only the current deck; if you want to make the same change in other decks, you must switch to each deck and repeat the REPLACE TEXT subcommand.

Once you have entered the editor using the SCU subcommand EDIT_ LIBRARY, SCU restricts your use of other SCU capabilities to those that do not make changes to the library. The following SCU subcommands are allowed:

CREATE MODIFICATION DISPLAY_DECK DISPLAY DECK LIST DISPLAY DECK REFERENCES DISPLAY MODIFICATION DISPLAY_FEATURE DISPLAY_FEATURE_LIST

DISPLAY GROUP DISPLAY_GROUP_LIST DISPLAY_LIBRARY DISPLAY MODIFICATION_LIST EXTRACT_MODIFICATION

When you have completed editing (by entering END or QUIT), all SCU subcommands are again accessible.



Starting the Editor

You must be in SCU to edit SCU decks. Enter the utility using the SCL command described in the SCL Source Code Management manual. Its format is:

SOURCE_CODE_UTILITY BASE=file RESULT=file LIST=file STATUS=status variable

You then enter the SCU subcommand EDIT_LIBRARY to begin an editing session. The format of the subcommand is:

EDIT_LIBRARY MODIFICATION=name INPUT=file OUTPUT=file DECK=name CONTINUE=boolean PROLOG=file STATUS=status variable

The MODIFICATION (M) parameter specifies the name of the modification to which changes made during the editor session belong. If the modification does not already exist, you must also specify CONTINUE=FALSE. This parameter is required.

The INPUT (I) parameter specifies the file used as input to the editor. This file can be positioned. If omitted, file \$COMMAND is assumed. File \$COMMAND is usually connected to terminal input.

The OUTPUT (O) parameter specifies the file to which the edit display is written. This file can be positioned. If OUTPUT is omitted, file \$OUTPUT is assumed.

The DECK (D) parameter specifies the name of the deck to be edited first. If you do not specify the first deck, you must enter an editor deck selection subcommand before entering commands to change text.

The CONTINUE (C) parameter indicates whether the editor session continues an existing modification or begins a new modification. When you specify TRUE, an existing modification is continued. When you specify FALSE, the editor begins a new modification. If CONTINUE is omitted, TRUE is assumed. The PROLOG (P) parameter specifies the name of the file the system executes when you start an editor session. This file can be positioned. If PROLOG is omitted, file \$USER.SCU_EDITOR_PROLOG is assumed. Chapter 10, Prologue and Epilogue Files, describes the prologue file in more detail.

For example, to edit deck LOG_CHANGES on the permanent source file named OLDPL using the existing modification LOG_MOD1, and write the resulting library on the next cycle of OLDPL, enter:

/scu base=\$user.oldpl result=\$user.oldpl.\$next
sc/edit_library modification=log_mod1 deck=log_changes
sce/

You can now use any of the capabilities of the editor including the deck editor subcommands listed earlier in this chapter; the EDIT_LIBRARY SCU subcommand adds an entry containing the editor subcommands to the NOS/VE subcommand list. The name of the entry is SCU_EDIT.

You can edit decks in either screen or line mode. Whenever you are in line mode, the prompt

sce/

is displayed when the editor is ready for input.

The following is the header written on the output file if the EDIT_LIBRARY SCU subcommand is entered in batch mode.

NOS/VE SOURCE CODE UTILITY V1.1 84151 1985-03-22 13:21:53 PAGE 1 EDITOR BASE=\$USER.OLDPL

Opening Decks

You can specify the first deck you want to edit on either the SCU subcommand EDIT_LIBRARY or on one of the editor subcommands that edit or select decks. The EDIT_LIBRARY subcommand is described in the previous section, Starting the Editor; a discussion of using the edit and select deck subcommands follows.

Once you are in the editor, you can choose to either edit or select a deck. Either method allows you to make changes to a deck. When editing additional decks, you can either keep the first deck open while editing a new deck or you can close the first deck when you start editing a new deck. If you choose to keep the first deck open, that deck is put in the background. There it is not affected by editing changes you make to the new deck, but it is maintained in the same state you left it when you changed decks.

The deck subcommands that start with EDIT, open the deck chosen and leave other decks open and in the background. The decks in the background can be edited again by entering another deck subcommand. You can use the edit deck subcommands in combination with other subcommands like SET_ SCREEN_OPTIONS and COPY_TEXT to transfer lines from one deck to another and to do other editing functions. The edit deck subcommands allow you to have many decks easily accessible during one editing session. Although this is a nice feature, you may want to consider the amount of system resources you are using when you do this. With each additional deck, the resources you are using increases.

The deck subcommands that start with SELECT, open the deck chosen, but at the same time, close the deck you were editing right before you entered the subcommand (if any). The changes you made to the previous deck are written to the working library. Refer to the SCL Source Code Management manual if you would like more information about working libraries. You can open the previous deck again later in the editing session by entering another edit or select deck subcommand.

While you are editing decks (having entered the EDIT_LIBRARY subcommand), you can also edit files. Use the EDIT_FILE subcommand to edit files. Any deck that is open when you enter EDIT_FILE remains open while you are editing a file. Entering END or QUIT closes all files as well as all decks. To edit a deck after editing a file enter one of the edit or select deck subcommands.

Opening a Deck While Maintaining Other Decks

The following subcommands start the editing process on a deck while other decks you had previously edited in this session remain available in the background:

EDIT_DECK	EDIT_LAST_DECK
EDIT_FIRST_DECK	EDIT_NEXT_DECK

Their individual descriptions follow.

Editing a Specific Deck

The EDIT_DECK subcommand opens the specified deck on the working library for editing while maintaining your current position in other decks. The format of the subcommand is:

EDIT_DECK (EDID) DECK=name STATUS=status variable

The DECK (D) parameter specifies the name of the deck to be edited. This parameter is required.

For example, to edit a deck named MY_DECK enter:

edit_deck deck=my_deck

Editing the First Deck on the Library

The EDIT_FIRST_DECK subcommand opens the first deck on the working library for editing while maintaining your current position in other decks. The format of the subcommand is:

EDIT_FIRST_DECK (EDIFD) STATUS=status variable

Editing the Last Deck on the Library

The EDIT_LAST_DECK subcommand opens the last deck on the working library for editing while maintaining your current position in other decks. The format of the subcommand is:

EDIT_LAST_DECK (EDILD) STATUS=status variable

Editing the Next Deck on the Library

The EDIT_NEXT_DECK subcommand opens the next deck on the working library for editing while maintaining your current position in other decks. The format of the subcommand is:

EDIT_NEXT_DECK (EDIND) STATUS=status variable

Opening a Deck While Closing the Previous Deck

The following subcommands start the editing process on a deck and at the same time close the last deck you were editing, if any (changes made to the previous deck are written to the working library):

SELECT_DECK	SELECT_LAST_	DECK
SELECT_FIRST_DECK	SELECT_NEXT_	DECK

Their individual descriptions follow.

Editing a Specific Deck

The SELECT_DECK subcommand opens the specified deck on the working library for editing and closes the previous deck (if any). The format of the subcommand is:

SELECT_DECK (SELD) DECK=name STATUS=status variable

The DECK (D) parameter specifies the name of the deck to be edited. This parameter is required.

For example, to edit a deck named YOUR_DECK enter:

select_deck deck=your_deck

Editing the First Deck on the Library

The SELECT_FIRST_DECK subcommand opens the first deck on the working library for editing and closes the previous deck (if any). The format of the subcommand is:

SELECT_FIRST_DECK (SELFD) STATUS=status variable

Editing the Last Deck on the Library

The SELECT_LAST_DECK subcommand opens the last deck on the working library for editing and closes the previous deck (if any). The format of the subcommand is:

SELECT_LAST_DECK (SELLD) STATUS=status variable

Editing the Next Deck on the Library

The SELECT_NEXT_DECK subcommand opens the next deck on the working library for editing and closes the previous deck (if any). The format of the subcommand is:

SELECT_NEXT_DECK (SELND) STATUS=status variable

Discarding Deck Changes

To discard changes made to the current deck being edited, use the RESET_ DECK subcommand. All changes made since the last time the deck was opened for editing are discarded; the editor obtains a new copy of the deck from the working library. The format of the subcommand is:

RESET_DECK (RESD) STATUS=status variable

For example, consider the following sequence of line mode entries:

Entries	Description
sc/edit_library m=mod3 c=false sce/edit_deck deck=deck_three Begin editing deck DECK_THREE.	Begin an editor session within SCU. Edit DECK_THREE (open first time).
sce/ .	Enter first set of changes for DECK_THREE.
sce/select_deck deck=deck_five Begin editing deck DECK_FIVE. sce/	Select DECK_FIVE, closing DECK_THREE (DECK_THREE is rewritten on the working library).
•	Enter set of changes for DECK_FIVE.
sce/edit_deck deck=deck_three Begin editing deck DECK_THREE. sce/	Edit DECK_THREE (open second time). DECK_FIVE remains open.
•	Enter second set of changes for DECK_THREE.
sce/reset_deck Begin editing deck DECK_THREE.	Delete the second set of changes for DECK_THREE. The first set of changes remains since DECK_THREE was closed after they were made. DECK_FIVE is unchanged.

You can also undo changes in decks as you would do in files (refer to Undoing in chapter 5).

Once you enter END_DECK or a select deck subcommand, a deck is closed. Changes made to the closed deck are copied to the working library and therefore cannot be discarded or undone.

The RESET_DECK subcommand performs a function similar to the RESET_FILE subcommand. RESET_DECK nullifies changes as does RESET_FILE. It nullifies them, however, by deleting the deck and replacing it with a copy from the working library. When you enter RESET_FILE, the editor actually retraces its steps and undoes changes in reverse order.





Closing a Deck

To close editing on the current deck, use the END_DECK subcommand. Whether changes you have made are written to the working library is determined by the WRITE_DECK parameter. The END_DECK and END_ FILE subcommands perform the same function. Either can be used to close a deck or file.

The format of the END_DECK subcommand is:

END_DECK (ENDD) WRITE_DECK=boolean STATUS=status variable

The WRITE_DECK (WD, WRITE_FILE, WF) parameter specifies whether the changes made to the deck since it was opened for editing are to be written to the working library. A value of TRUE indicates that the deck is to be rewritten; a value of FALSE indicates that the deck remains unchanged (the edited copy is discarded). If WRITE_DECK is omitted, TRUE is assumed and the results are written to the working library.

Stopping the Editor

All decks are automatically closed when you leave the editor. To leave the editor you can either use a function key (screen mode only), or use the END or QUIT subcommand.

The function key that stops the editor is:

F6 END

Changes made to all open decks are written to the working library and changes made to all files are made permanent.

The END and QUIT subcommands stop the editor. They do exactly the same thing and they have the same format. The format is:

END or QUIT (QUI) WRITE_DECK=boolean STATUS=status variable

The WRITE_DECK (WD, WRITE_FILE, WF) parameter specifies if you want changes to all open decks or files made permanent. When you specify TRUE, changes made to all open decks are written to the working library and changes made to all files are made permanent. When you specify FALSE, changes to all open decks and files are canceled. If WRITE_DECK is omitted, TRUE is assumed.

For example, if you have edited decks SUB1, SUB2, and SUB3, are now editing deck MAIN, and enter:

end_deck write_deck=true

deck MAIN is rewritten on the working library (preserving any changes made).

You then end the editing session by entering:

quit write_deck=false

The changes you made to decks SUB1, SUB2, and SUB3 do not become part of the working library.

When you end the editing session you are still in SCU. You end the SCU session by entering:

sc/quit write_library=true

SCU generates a result library. The changes made to the working library (those made to deck MAIN) become part of the result library. Other changes made to decks SUB1, SUB2, and SUB3 do not become part of the result library.





Creating Procedures

To further enhance the power of the editor, you can create procedures which execute editor subcommands, SCL commands, and so on. This chapter describes how to create and run procedures and how to call the editor from within a procedure.

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This chapter describes how to create procedures to enhance the power and usability of the editor. In a procedure you can combine editor subcommands, SCL commands, and special SCL functions to perform sophisticated editing functions. This chapter describes:

- The structure of procedures.
- Special editor subcommands and SCL functions designed to be used within editor procedures.
- Examples of procedures.
- How to call the editor from within a procedure.

Structure

Procedures can contain any editor subcommand, SCL command, or SCL function; you are not limited to only editor subcommands. This allows you to have access to the power and versatility of SCL from within the editor.

The structure of a procedure for the editor is the same as an SCL procedure:

procedure header statement list procedure end

This section briefly describes the three components of a procedure. For more detailed information, refer to the SCL Language Definition manual.



Procedure Header

The procedure header is a line giving the procedure a name. The format of the procedure header is:

PROC procedure names

For example, a procedure named TERMINAL_SETUP could have the following procedure header:

proc terminal_setup

The name of the procedure can be any valid SCL name. On the procedure header you can also add any other names by which you may want to reference the procedure. For example:

proc terminal_setup,terms,t

With this procedure header, you could call the procedure using any of the following:

```
terminal_setup
terms
t
```

Statement List

The statement list is a list of the commands and subcommands that you want the procedure to execute. For example, the TERMINAL_SETUP procedure could contain the following editor subcommands:

```
setso mr=2
setfk n=5 s=true cs='setso mr=1'
```

These subcommands tell the editor to display two rows of function key prompts and set the shifted function key 5 to display only one row.

Procedure End

The procedure end statement tells the editor that the procedure is over. The procedure end statement can appear as:

PROCEND

or

PROCEND procedure name

For example, TERMINAL_SETUP might look like:

```
PROC terminal_setup,terms,t
setso mr=2
setfk n=5 s=true cs='setso mr=1'
PROCEND terminal_setup
```

To make your procedure more readable, you probably want to use indentation. For example,

```
PROC terminal_setup,terms,t
setso mr=2
setfk n=5 s=true cs='setso mr=1'
PROCEND terminal_setup
```

Another way to make your procedure more readable is to add comments. You can add comments with quotation marks. For example, to document procedure TERMINAL_SETUP, you might add comments like:

```
PROC terminal_setup,terms,t
    setso mr=2 "Display two function key rows."
    setfk n=5 s=true cs='setso mr=1' "Set F5 to display one row."
PROCEND terminal_setup
```



Subcommands and Functions

There is a subcommand and several functions that are designed to be used within editor procedures. This subcommand and the functions are described in this section. The Examples section at the end of this chapter shows how you can use editor subcommands and functions with SCL commands to create very useful procedures.

Subcommand

The PUT_ROW subcommand is designed to be used within procedures. Its function is to enable you to print text on any row on the screen. When this subcommand is in procedures, this enables you to display messages on different lines on the screen. Format of the subcommand is:

PUT_ROW (PUTR) TEXT=string ROW=integer STATUS=status variable

The TEXT (T) parameter specifies the text to be printed. This is a text string from 1 through 256 characters. This parameter is required.

The ROW (ROWS or R) parameter indicates the row in which the text will be written. Values can be an integer from 1 through the number of rows available on your screen or any of the functions described in the next section that specify a row. For example, to specify the message row, enter \$MESSAGE_ROW. If ROW is omitted, the current line number is assumed.

For example, in a procedure which defines an alternative set of function key definitions for the CDC 722 terminal, you might want to write the message

722 keys are set.

in the message row. To do so, include the following subcommand in the procedure:

put_row text='722 keys are set.' row=\$message_row

Functions

Functions are phrases that are replaced by values and must be used in a subcommand, an SCL command, or a procedure. If the value returned is a string, you can use the function wherever a string parameter is used. If the value returned is an integer, you can use the function wherever an integer parameter is used, and so on. The functions, listed alphabetically (with the abbreviation shown in parentheses), are:

Function Name	Value that Replaces the Function Name
\$ACTIVE_IDENTIFIER ('line id')† (\$AI)	A line identifier string (for editing decks only). If the line is active, it returns the string entered. If the line is not active, it returns a string, representing the line identifier for the nearest active line. If no lines are active, FIRST is returned.
\$CURRENT_COLUMN (\$CC)	An integer specifying the current column number. If the POSITION_CURSOR subcommand is used to specify a column on a row which is not part of the file text, the value returned is the column at which the cursor was positioned before the POSITION_CURSOR subcommand was entered.
\$CURRENT_DECK (\$CD)	A string specifying the current deck's name (for editing decks only). All letters in the string are uppercase, even if the name was originally entered using lowercase letters.
\$CURRENT_LINE (\$CL)	An integer specifying the current line number.
\$CURRENT_OBJECT (\$CO)	A string identifying the current file name.

[†] Entries shown in lowercase characters require that you supply a value.

Function Name	Value that Replaces the Function Name
\$CURRENT_OBJECT_TYPE (\$COT)	A string identifying the current object being edited. Possible values are FILE, DECK, or NULL.
\$CURRENT_ROW (\$CR)	An integer identifying the current row on the screen (as opposed to the current line number of a file). Zero is returned if the current row is not within screen boundaries or if you are in line mode.
\$CURRENT_SPLIT (\$CS)	An integer specifying the current split of the screen. Values returned can be from 1 through 16. The top split of the screen is 1, the next lower split is 2, and so on.
\$CURRENT_WORD (\$CW)	The current word as a string.
\$CURRENT_WORD_COLUMN (\$CWC)	An integer specifying the column in which the current word begins.
\$FUNCTION_ROW (\$FR)	An integer specifying the top row in which the function key prompts are displayed.
\$FUNCTION_SIZE (\$FS)	An integer specifying the number of rows used by the function key prompts.
\$HOME_ROW (\$HR)	An integer identifying the row used for entering subcommands.
\$LINE_IDENTIFIER (\$LI)	A string specifying the line identifier of the current line (for decks only).
\$LINE_TEXT (\$LT)	The text of the current line as a string.

Function Name

\$MARK_FIRST_COLUMN
(\$MFC)

\$MARK_FIRST_LINE
(\$MFL)

\$MARK_LAST_COLUMN
(\$MLC)

\$MARK_LAST_LINE
(\$MLL)

\$MARK_OBJECT
(\$MO)

\$MARK_OBJECT_TYPE (\$MOT)



\$MARK_TYPE (\$MT)

\$MESSAGE_ROW
(\$MR)

\$NEW_TEXT (\$NT)

\$NUMBER_OF_COLUMNS
(\$NOC)

\$NUMBER_OF_ROWS
(\$NOR)

\$NUMBER_OF_SPLITS
(\$NOS)

Value that Replaces the Function Name

An integer specifying the column number of the first marked column.

An integer specifying the line number of the first marked line.

An integer specifying the column number of the last marked column.

An integer specifying the line number of the last marked line.

A string specifying the name of the current file containing the marked text.

A string specifying if the marked text is in a file or deck. Values returned can be FILE, DECK, or NULL.

Specifies if the marked region is bounded by lines or characters. Values returned can be LINES (line boundary) or STREAM (character boundary).

An integer specifying the number of the row on the screen used to display messages.

The last string entered as a NEW_TEXT parameter.

An integer specifying the number of columns currently being used to display text on the screen.

An integer specifying the number of rows that now have text on them.

An integer specifying the number of splits on the screen.



\$OFFSETAn integer specifying the number specified by the OFFSET parameter of the ALIGN_SCREEN subcommand. If you have not specified the OFFSET parameter, 0 is assumed.\$PARAGRAPH_MARGINSAn integer specifying the current left margin setting if you include the keyword value LEFT; an integer specifying if you include the keyword value RIGHT; an integer specifying the current margin offset if you include the keyword value OFFSET.\$SCREEN_ACTIVEA boolean value. It is TRUE if (\$SA)\$SCREEN_INPUT ('text')†This function allows an SCL procedure to pause and ask the user for some input. For example, the following command performs a search for whatever text the user provide in response to \$SI.Locate_text text=\$SI ('What do you want to search for?')Locate_text text=\$SI ('What do you want to search for?')	Function Name	Value that Replaces the Function Name
 \$PARAGRAPH_MARGINS (keyword value)† (\$PM) An integer specifying the current left margin setting if you include the keyword value LEFT; an integer specifying th current right margin setting if you include the keyword value RIGHT; an integer specifying the current margin offset if yo include the keyword value OFFSET. \$SCREEN_ACTIVE A boolean value. It is TRUE if screen mode is active; FALSE it is not. \$SCREEN_INPUT ('text')† This function allows an SCL procedure to pause and ask the user for some input. For example, the following command performs a search for whatever text the user provide in response to \$SI. Locate_text text=\$SI ('What do you want to search for?') 	\$OFFSET (\$O)	An integer specifying the number specified by the OFFSET parameter of the ALIGN_SCREEN subcommand. If you have not specified the OFFSET parameter, 0 is assumed.
<pre>\$SCREEN_ACTIVE A boolean value. It is TRUE if (\$SA) Screen mode is active; FALSE it is not.</pre> \$SCREEN_INPUT ('text') [†] This function allows an SCL (\$SI) procedure to pause and ask the user for some input. For example, the following command performs a search for whatever text the user provide in response to \$SI. locate_text text=\$SI ('What do you want to search for?')	\$PARAGRAPH_MARGINS (keyword value)† (\$PM)	An integer specifying the current left margin setting if you include the keyword value LEFT; an integer specifying the current right margin setting if you include the keyword value RIGHT; an integer specifying the current margin offset if you include the keyword value OFFSET.
<pre>\$SCREEN_INPUT ('text')† (\$SI) This function allows an SCL procedure to pause and ask the user for some input. For example, the following command performs a search fo whatever text the user provide in response to \$SI. locate_text text=\$SI ('What do you want to search for?')</pre>	\$SCREEN_ACTIVE (\$SA)	A boolean value. It is TRUE if screen mode is active; FALSE if it is not.
locate_text text=\$SI ('What do you want to search for?')	\$SCREEN_INPUT ('text')† (\$SI)	This function allows an SCL procedure to pause and ask the user for some input. For example, the following command performs a search for whatever text the user provides in response to \$SI.
		locate_text text=\$SI ('What do you want to search for?')
The value that replaces the function is whatever you type on the subcommand line.		The value that replaces the function is whatever you type on the subcommand line.

 $[\]dagger$ Entries shown in lowercase characters require that you supply a value.

Function Name	Value that Replaces the Function Name
	NOTE
	When typing your input, type only the text you want. Do not put apostrophes around it or double up any apostrophes within your input.
	The text in the function is displayed on the message row as a prompt for your input. If ('text') is omitted, ENTER TEXT is used as the prompt.
\$SEARCH_MARGINS (keyword value)† (\$SM)	An integer specifying the left margin is returned if you include the keyword value LOW. An integer specifying the right margin is returned if you include the keyword value HIGH.

† Entries shown in lowercase characters require that you supply a value.

Function Name	Value that Replaces the Function Name
\$SPLIT_SIZE (split)† (\$SS)	An integer specifying the number of available text lines for the specified split of the screen. If you do not specify a split number, the current split is assumed.
\$TERMINAL_MODEL (\$TM)	A string specifying the current terminal model. Values returned can be any of the terminal models defined at your site including CDC721, CDC722, CDC722_30, PC_CONNECT, Z19, or Z29.
\$TEXT (\$T)	A string specifying the last text you specified on a TEXT parameter.
<pre>\$TITLE_ROW (split)† (\$TR)</pre>	An integer specifying the row number of the title row used for the specified split of the screen. If you don't specify a split number, the current split is assumed.
\$UPPER_CASE (\$UC)	A boolean value. It is TRUE if you specified TRUE on the last UPPER_CASE parameter; FALSE if you specified FALSE.
\$VERIFY_OPTION (\$VO)	A boolean value. It is TRUE if you have activated the VERIFY option; FALSE if it is not activated.
\$WORD (\$W)	A boolean value. It is TRUE if the word search feature is active; FALSE if it is not.

† Entries shown in lowercase characters require that you supply a value.

Examples

The procedures in this section are provided to show you how you might use procedures to perform editing functions.

Example 1:

This procedure deletes characters.

```
PROC delete_characters,delete_character,delc,dc (
  number, n : ANY
  lines, line, l : RANGE of ANY
  columns, column, c: RANGE OF ANY
  status)
  WHEN any_fault DO
     EXIT_PROC WITH osv$status
  WHENEND
  create_variable local_status kind=status
  command='delete_text boundary=stream'
  IF $specified(lines) THEN
     command=command//' l='//$parameter(lines)
  ELSE
     command=command//' l=current'
  IFEND
  IF $specified(columns) THEN
     command=command// ' c='//$parameter(columns)
  ELSE
     command=command//' c=c'
  IFEND
  IF $specified(number) THEN
     command=command//' n='//$parameter(number)
  IFEND
  include_line command
```

PROCEND delete_characters



Example 2:

This procedure deletes empty lines.

```
PROC delete_empty_lines, delete_empty_line, delel,(
  lines, line, L : RANGE OF ANY
  status)
  WHEN any_fault DO
     set_verify_option verify status=local_status
     EXIT_PROC WITH osv$status
  WHENEND
  create_variable local_status kind=status
  verify=$verify_option
  set_verify_option false status=local_status
  IF $specified(lines) THEN
     position_cursor l=$parameter(lines) c=1
  ELSE
     position_cursor c=1 l=c
  IFEND
  start=$line_identifier
  position_cursor l=last
  id_two=$line_identifier
  position_cursor l=start
  set_verify_option verify
  REPEAT
     id_one=$line_identifier
     IF $line text=" THEN
         delete_line l=current
     ELSE
         id_one=id_two
     IFEND
  UNTIL id_one=id_two
  position_cursor l=current
PROCEND delete_empty_lines
```

Calling the Editor from Within a Procedure

In order to call the editor from within a procedure, you must first be aware of how the default command stream works. The EDIT_FILE command offers an INPUT parameter, which defaults to \$COMMAND. This parameter indicates a file from which editor commands will be read. The special file name \$COMMAND indicates the current command stream.

When the EDIT_FILE command is entered at the terminal, the current command stream is the terminal. Screen mode occurs if it has been set using ACTIVATE_SCREEN. When the EDIT_FILE is embedded in a procedure or included file, the current command stream consists of the remainder of that procedure or included file; that is, everything starting just after the EDIT_FILE, until or unless an editor QUIT command is reached. If no editor QUIT is provided, YES will be assumed at the end of the procedure. In this case, the body of the procedure or included file is considered to be editor commands. The editor reads the entire procedure or included file without reading from the terminal in either line or screen mode.

The INPUT parameter allows you to call a file that contains editor subcommands (but not including the EDIT_FILE command that starts the editor), and the editor executes those subcommands instead of reading them from the current command stream in either line or screen mode.

For example, the file EDITOR_SCRIPT contains the commands:

```
delete_text lines=first
delete_text lines=last
```

This file can be used to delete the first and last lines of any file when entered as follows:

edit_file file=file_to_be_shortened input=editor_script

You can also refer to the command stream that calls a procedure by using the \$COMMAND_OF_CALLER function. For example, suppose the procedure, PROC_A, contains:

```
PROC proc_a (status)
    do_something thing=whatever_must_precede_editing
    edit_file file=file_to_be_edited input=$command_of_caller
    do_something thing=make_use_file_that_is_fully_edited_now
PROCEND proc_a
```

Once PROC_A is prepared, you can execute it in various ways. If you call PROC_A from the terminal, after the initial DO_SOMETHING, the procedure pauses while the editor talks to you at the terminal (in either line or screen mode according to what you have set for your terminal using ACTIVATE_SCREEN). When you tell the editor to QUIT, PROC_A continues with the second DO_SOMETHING, and then finishes.

Procedure PROC_B shows another way to use the editor:

```
PROC proc_b (status)
    do_something thing=whatever_this_proc_needs_to_do_first
    proc_c
        list_lines all
        display_value 'this is a sample proc'
        quit
        do_something thing=final_thing_to_do
PROCEND proc_b
PROC proc_c (status)
        do_something thing=just_before_editor
        edit_file file=file_c input=$command_of_caller
        do_something thing=just_after_editor
        PROCEND proc_c
```

In this example, you call PROC_B at the terminal. PROC_B does something and then calls PROC_C. PROC_C does something to initialize and then calls the editor. This time, \$COMMAND_OF_CALLER refers to the middle of PROC_B, so the editor does the LIST_LINES, DISPLAY_ VALUE, and the QUIT subcommands. The last part of PROC_C then executes and you return to PROC_B after QUIT. PROC_B executes its second DO_SOMETHING and is finished.

Prologue and Epilogue Files

There are two special files within the editor that are executed each time you start and leave the editor. These files, the prologue and epilogue files, are described in this chapter.

Prologue File	
Epilogue File	

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Prologue File

The prologue file is a file containing commands that are executed every time you start the editor. In this file, you can put any subcommands and SCL commands that you want executed each time you start the editor. In effect, this enables you to permanently change settings of function keys, format of the screen, and so on, from the initial settings provided by the system. For example, if you know you are going to use the editor in screen mode on a Viking 721 terminal most of the time, you might want to include an ACTIVATE_SCREEN CDC721 subcommand in your editor prologue file.

When you start the editor with the EDIT_FILE command, you can specify a file to be used as the prologue file with the PROLOG parameter. Otherwise, the editor assumes the prologue file is SCU_EDITOR_PROLOG in catalog \$USER.

Epilogue File

You also have the option of setting an epilogue file that is executed when you stop the editor. To specify a file containing EDIT_FILE subcommands that you want executed when you leave the editor, use the SET_EPILOG subcommand. The format is:

SET_EPILOG FILE=file

The FILE (F) parameter specifies the file to contain the FSE subcommands. If FILE is omitted, \$USER.SCU_EDITOR_EPILOG is assumed.

The SET_EPILOG subcommand may be used anytime within an edit session. If you want epilog file processing to occur automatically, put the SET_EPILOG subcommand into your prologue file.

If you do not use the SET_EPILOG subcommand, no epilogue file is executed.



10



Using Other Terminals in Screen Mode

Full Screen Editor supports terminals other than the Viking 721. To use these terminals, you will need to know information specific to these terminals and how it affects your use of the editor. This chapter shows how to do functions performed by Viking 721 function keys on the other supported terminals.

CDC 722	-1
CDC 722-30	-5
DEC VT100	-9
IBM PC or Equivalent	13
Zenith Z19 or Heathkit H1911-3	١7
Zenith Z29	22







Using Other Terminals in Screen Mode

This chapter provides you with the information you will need to run the editor in screen mode on the following terminals.

• CDC 722

• IBM PC or equivalent

• CDC 722-30

• Zenith Z19 or Heathkit H19

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- DEC VT100
- Zenith Z29

Information on these terminals includes:

- Equivalent CDC standard function keys.
- Programmable function key initial settings.

For information on creating a terminal-definition file so that you can use the editor in screen mode with other terminals, refer to the Screen Formatting manual.

CDC 722



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Equivalent CDC Standard Function Keys:

Viking 721 Key	CDC 722 Key	Function
(FWD)	(F1) + (NEW LINE)	Moves forward to the next screen of the file.
вкш	(SHIFT) (F1) + (NEW LINE)	Moves backward to the previous screen of the file.
UP	(SHIFT) (F2) + (NEW LINE)	Positions the file so that the current line is at the top of the screen.
(DOWN)	(F2) + (NEW_LINE)	Positions the file so that the current line is at the bottom of the screen.
(HELP)	(F7) + (NEW LINE)	Displays the editor HELP file.
(EDIT)	Move the cursor to the upper file text area, press (HOME) and enter setso s=1	Returns you to the previously edited file.
(INSRT)	(F3) + (NEW LINE)	Inserts a blank character over which you type the new character.
	(F4) + (NEW LINE)	Inserts an empty line over which you can type a new line of text.
DLETE	(SHIFT) (F3) + (NEW LINE)	Deletes the current character.
	(SHIFT) (F4) + (NEW LINE)	Deletes the current line.
CLEAR	(SHIFT) (CLEAR)	Rewrites the entire screen.
(HOME)	(SHIFT) (HOME)	Moves the cursor to the subcommand line, allowing you to enter subcommands and SCL commands.
NEXT	(NEW LINE) or (CR)	Ends an input line.

CDC 722 Koy Description		
BKW F1 FWD	F1 FWD moves forward one page in the file. When shifted, F1 EKW moves backward one page in the file.	
Linedn F2 Lineup	F2 Lineup moves the current line to the top of the screen. When shifted, F2 Linedn positions the current line to the bottom of the screen.	
DELC F3 INSC	F3 INSC inserts a blank character at the current character over which you can type a new character. When shifted, the F3 DELC key deletes the current character. You can press the F3 key several times before pressing (NEW LINE) to delete or insert more than one character. It is not until you press (NEW LINE) that the results are shown.	
DELL F4 INSL	F4 INSL inserts a blank line over which you can type new text. When shifted, F4 DELL deletes the current line. You can press the F4 key several times before pressing (NEW LINE) to insert or delete more than one line. It is not until you press (NEW LINE) that the results are shown.	
Undo F5 MARK	F5 MARK marks a line or lines for later use with another subcommand. These marked lines are not displayed in inverse video as on the Viking 721. When shifted, F5 Undo undoes the previous	

change to your file.

Initial Programmable Function Key Settings for the CDC 722:

CDC 722 Key	Description
Move F6 Copy	 F6 Copy copies any marked lines or characters to the current line or character. When shifted, F6 Move moves any marked lines or characters.
Left F7 HELP	F7 HELP displays the editor HELP file. When shifted, F7 Left moves your view of the file to the left.
Right F8 END	F8 END stops the editor, making any changes to all open files permanent. When shifted, F8 Right moves your view of the file to the right.
Unmrk F9 Endlin	F9 Enclin moves the cursor to the end of the current line. When shifted, F9 Unmrk cancels any marks you may have set.
F10	Undefined.
F11	Undefined.
NOTES	

- You must press (NEW LINE) or (CR) after pressing a programmable function key.
- To use the cursor positioning keys or the (HOME) key, you must first press (SHIFT).
- The **EOL** key clears a line from the position of the cursor to the end of the line. The shifted **EOL** key clears the entire screen.
- Do not use the **TAB** key to insert tabs. Instead, use the tab character defined by the SET_TAB_OPTIONS subcommand. The horizontal tab character works well (SETTO c=chr\$(9)).



CDC 722-30





Equivalent CDC Standard Function Keys:

Viking 721 Key	CDC 722-30 Key	Function
(FWD)	F3	Moves forward to the next screen of the file.
ВКЖ	F4)	Moves backward to the previous screen of the file.
UP	(SHIFT) (F3)	Positions the file so that the current line is at the top of the screen.
(DOWN)	(SHIFT) (F4)	Positions the file so that the current line is at the bottom of the screen.
HELP	(SHIFT) (F5)	Displays the editor HELP file.
(INSRT)	(SHIFT) (IC) †	Begins insert mode at cursor. To end, press [RETURN].
	SHIFT (IL)	Inserts a blank line over which you can type a new line of text.
DLETE	(SHIFT) (DC)†	Deletes the current character.
	(SHIFT) (DL)	Deletes the current line.
(HOME)	(<u>SHIFT</u>) (5)†	Positions the cursor at the editor subcommand line, allowing you to enter editor subcommands.
(NEXT)	(RETURN)	Ends an input line.

†Located on the numeric keypad to the right of the main keyboard.

Initial Programmable Function Key Settings for the CDC 722-30:

CDC 722-30 Key	Description
Unmrk F1 MARK	F1 MARK marks a line or lines for later use with another subcommand. When shifted, F1 Unmrk cancels any marks you may have set.
Boxmk F2 Chrmk	F2 Chrmk sets the mark at character boundaries. When shifted, F2 Boxmk sets the mark at a box corner.
LinUp F3 FWD	F3 FWD moves forward one page in the file. When shifted, F3 LinUp moves the current line to the top of the screen.
LinDn F4 BKW	F4 BKW moves backward one page in the file. When shifted, F4 LinDn positions the current line to the bottom of the screen.
Help F5 UNDO	F5 UNDO undoes the previous change to your file. When shifted, F5 Help displays the editor HELP file.
Offset F6 END	 F6 END stops the editor, making changes to all open files permanent. When shifted, F6 Offset switches the display of columns 1 through 80 to the display of columns 54 through 133 or the reverse.
locnxt F7 Locat	F7 Locat moves the cursor to the subcommand line and prompts you for the text you want to enter. When shifted, F7 Locatt locates the next occurrence of a previously specified string.
Move F8 Copy	F8 CODY copies any marked lines or characters to the current line or character. When shifted, F8 Move moves any marked lines or character.
Last F9 First	F9 First aligns the screen to display the beginning of the file. When shifted, F9 Last aligns the screen centered around the end of the file.

Initial Programmable Function Key Settings for the CDC 722-30:

CDC 722-30 Key Description

Endln F10 middl	F10 middl aligns the screen so that the current line is in the middle of the screen. When shifted, F10 Endle moves the cursor to just beyond the end of the current line.
F11 Break	F11 Break divides the current line into two smaller lines just in front of the current column. The cursor stays at the same place, which is just beyond the last character of the first line of the pair.
F12 Join	F12 Join adds the line after the current line onto the end of the current line.

NOTE

To enter INSERT CHARACTERS (IC), INSERT LINES (IL), DELETE CHARACTERS (DC), DELETE LINES (DL), or HOME, use the numbers on the keypad to the right of the main keyboard. For example, to insert characters, press:

(SHIFT) (1)

Then type in the desired characters and press (RETURN) to end.

The keys are on the keypad to the right of the main keyboard as follows:

- 1 IC
- 3 DC
- 5 HOME
- 7 IL
- 9 DL







Using Other Terminals in Screen Mode

Equivalent CDC Standard Function Keys:

The following VT100 keys (except **RETURN**) are located on the keypad to the right of the main keyboard.

Viking		
721 Key	DEC VT100 Key	Function
(FWD)	(1) + (<u>RETURN</u>)	Moves forward to the next screen of the file.
(вкw)	(PF1) + (RETURN)	Moves backward to the previous screen of the file.
UP	(2) + (RETURN)	Positions the file so that the current line is at the top of the screen.
DOWN	(PF2) + (RETURN)	Positions the file so that the current line is at the bottom of the screen.
HELP	(7) + (RETURN)	Displays the editor HELP file.
(EDIT)	Move the cursor to the upper file text area, press (HOME) and enter setso s=1	Returns you to the previously edited file.
	(4) + (RETURN)	Inserts a blank line, allowing you to type in a new line of text.
(INSRT)	(3) + (RETURN)	Inserts a blank character over which you type the new character.
	(PF4) + (RETURN)	Deletes the current line.
DLETE	(PF3) + (RETURN)	Deletes the current character.
	. + (RETURN)	Rewrites the entire screen.
(HOME)	(ENTER) + (RETURN)	Positions the cursor at the editor subcommand line, allowing you to enter editor subcommands.
(NEXT)	(RETURN)	Ends an input line.

Initial Programmable Function Key Settings for the DEC VT100:

DEC VT100 Key	Description
BKW F1 FWD	F1 FWD moves forward one page in the file. When shifted, F1 BKW moves backward one page in the file.
Linedn F2 Lineup	F2 Lineup moves the current line to the top of the screen. When shifted, F2 Linech positions the current line to the bottom of the screen.
DELC F3 INSC	F3 INSC inserts a blank character at the current character over which you can type a new character. When shifted, F3 DELC deletes the current character. You can press the F3 key several times before pressing <u>NEW LINE</u> to delete or insert more than one character. It is not until you press <u>NEW LINE</u> that the results are shown.
DELL F4 INSL	F4 INSL inserts a blank line over which you can type new text. When shifted, F4 DELL deletes the current line. You can press the F4 key several times before pressing (NEW LINE) to insert or delete more than one line. It is not until you press (NEW LINE) that the results are shown.
Undo F5 MARK	F5 MARK marks a line or lines for later use with another subcommand. These marked lines are highlighted as on the Viking 721. When shifted, F5 Undo undoes the previous change to your file.
Move F6 Copy	F6 Copy copies any marked lines or characters to the current line or character. When shifted, F6 Move moves any marked lines or character.

DE	C VT100 Key	Description
F7	HOME HELP	F7 HELP displays the editor HELP file. When shifted, F7 HOME positions the cursor on the editor subcommand line.
F8	Clear END	F8 END stops editor making changes to all open files permanent. When shifted, F8 Clear rewrites your screen.
F 9	Unmrk ENDLIN	F9 ENDLIN moves the cursor to the end of the current line. When shifted, F9 Unmrk cancels any marks you have set.

NOTES

- You must press **(RETURN)** after pressing a programmable function key.
- Keypad keys (1) through (9) are function keys F1 through F9.
- The following shows the correspondence between the shifted function keys and the keypad keys.

Function Key Associated Keypad Keys

SHIFT F1	(PF1)
(SHIFT) (F2)	(PF2)
(SHIFT) (F3)	(PF3)
(SHIFT) (F4)	(PF4)
(SHIFT) (F5)	(_)
SHIFT) (F6)	$\overline{\mathbf{O}}$
(SHIFT) (F7)	ENTER
(SHIFT) (F8)	
SHIFT F9	0

The keypad can never be used for numeric values within the editor.

• Turn on output flow control if it's not already on.

IBM PC (or Equivalent)



Equivalent CDC Standard Function Keys:

Viking 721 Key	IBM PC Key	Function
(FWD)	PgDn	Moves forward to the next screen of the file.
	CTRL (PgDn)	Moves to the end of file.
ВКШ	(PgUp)	Moves backward to the previous screen of the file.
	(CTRL) (PgUp)	Moves to the beginning of file.
(INSRT)	(INS)	Begins insertion mode. Text to the right of the cursor moves as you enter new characters. To end insertion mode, press END.
	(ALT-I)	Inserts a blank line over which you can type new text.
DLETE	DEL	Deletes the current character.
	ALT-D	Deletes the current line.
(HOME)	HOME	Positions the cursor at the editor subcommand line, allowing you to enter editor subcommands.
(NEXT)	(RETURN)	Ends an input line.
NOTE		

The IBM PC terminal definition assumes that the CDC terminal emulation package CONNECT is running in the PC.

Initial Programmable Function Key Settings for the IBM PC:

IBM F	PC Key	Description
U F1 M	nmrk ARK	F1 MARK marks a line or lines for later use with another subcommand. When shifted, F1 Unmrk cancels any marks you may have set.
F2 Cł	runc hrmk	F2 Chrmk sets the mark at character boundaries. When shifted, F2 Trunc blanks the remainder of the current line from the cursor to the right margin.
F3 C	ove opy	 F3 Copy copies any marked lines or characters to the current line or character. When shifted, F3 Move moves any marked lines or characters.
Jo F4 Bi	oin reak	F4 Break divides the current line into two smaller lines just in front of the current column. The cursor stays at the same place, which is just beyond the last character of the first line of the pair. When shifted, F4 Join adds the line after the current line to the end of the current line.
C F5 U	lear NDO	F5 UNDO undoes the previous change to your file. When shifted, F5 Clear rewrites your screen.
F6 QI	uit	F6 Quit exits the editor, making changes to all open files permanent.
F7 L	ocnxt ocate	F7 Locate moves the cursor to the subcommand line and prompts you for the text you want to enter. When shifted, F7 Locnxt locates the next occurrence of a previously specified string.
0 ⁻ F8 L0	ffset ocall	F8 Locall locates all occurrences of a previously specified string. When shifted, F8 Offset switches the display of columns 1 through 80 to the display of columns 54 through 133 or from columns 54 through 133 to 1

through 80.



margins.

IBM PC Key	DescriptionF9 Middle aligns the screen so that the currentline is in the middle of the screen. Whenshifted, F9 Format moves words across lineboundaries and standardizes spacing between words to fitthe current paragraph to the margins. Standard spacingis single except for double spacing after any period,exclamation, question, or colon. Punctuation marksembedded in nonblank text are not double spaced.	
Format F9 Middle		
Center F10 Endlin	F10 Endlin moves the cursor to the end of the current line. When shifted, F10 Center horizontally centers the current line within the paragraph formatting	




Equivalent CDC Standard Keys:

Viking 721 Key	Z19 or H19 Key	Function
(FWD)	(F1) + (RETURN)	Moves forward to the next screen of the file.
(вкw)	(F2) + (RETURN)	Moves backward to the previous screen of the file.
UP	(F3) ⁺ (RETURN)	Positions the file so that the current line is at the top of the screen.
(DOWN)	(F4) + (RETURN)	Positions the file so that the current line is at the bottom of the screen.
HELP	(F8) + (<u>RETURN</u>)	Displays the editor HELP file. The (F8) key is the key with the white square on it.
(EDIT)	Move the cursor to the upper file text area, press (HOME) and enter set so s=1	Returns you to the previously edited file.
(INSRT)	(II)†	Inserts a blank line over which you can type a new line of text. When you insert lines, the function key prompts move according to the number of lines inserted. To align the prompts properly, press (RETURN). This key does not require you to press

(**RETURN**) afterward.

[†] Located on the numeric keypad to the right of the main keyboard.

Viking 721 Key	Z19 or H19 Key	Function
(INSRT)	(c) †	When you press(IC), it puts the terminal into insert mode. While insert mode is on, pressing any character moves the existing text to the right and inserts the new character. Insert mode is canceled when you either press(IC) a second time or press(RETURN .
(C) (DLETE)	(D) †	Deletes the current line. When you delete lines, the function key prompts move according to the number of lines deleted. To align the prompts properly, press (RETURN). This key does not require you to press (RETURN) afterward.
(DLETE)	DC †	Deletes the current character.
(CLEAR) (RETURN)	SHIFT) (ERASE) + (RETURN)	Rewrites the entire screen.
(номе)	(номе)	Positions the cursor at the editor subcommand line, allowing you to enter editor subcommands.
(NEXT)	(RETURN)	Ends an input line.

[†] Located on the numeric keypad to the right of the main keyboard.

Initial Programmable Function Key Settings for the Zenith Z19/Heathkit H19:

Z19 or H19 Key	Description
MARK F1 FWD	F1 FWD moves forward one page in the file. When shifted, F1 MARK marks a line or lines to be used with another function or subcommand.
Mrkchr F2 BKW	F2 EKW moves backward one page in the file. When shifted, F2 Mrkchr marks a character or characters for use with another function or subcommand.
Unmark F3 Lineup	F3 Lineup moves the current line to the top of the screen. When shifted, F3 Unmark cancels any marks you have set.
Copy F4 Linedn	F4 Linedn positions the current line to the bottom of the screen. When shifted, F4 Copy copies any marked lines or characters to the current line or character.
Move F5 Middle	F5 Middle moves the cursor to the end of the current line. When shifted, F5 Move moves any marked lines or characters to the current line or character.
Endlin F6 UNDO	F6 UNDO undoes the previous change to your file. When shifted, F6 Endlin moves the cursor to the end of the current line.
Left F7 Quit	F7 Quit exits the editor, making changes to your file permanent. When shifted, F7 Left moves your view of the file to the left.
Right F8 HELP	 F8 HELP accesses the editor HELP file. When shifted, F8 Right moves your view of the file to the right 40 columns.
F9	Undefined but available as a function key only when shifted.

Z19 or H19 Key	Description
Locnxt F10	When shifted, F10 Locnxt locates the next occurrence of a previously specified string.
Locall F11	When shifted, F11 Locall locates all occurrences of a previously specified string.
LOCATE F12	When shifted, F12 LOCATE moves the cursor to the subcommand line and prompts you for the text you want to enter.

NOTES

- You must enter **(RETURN)** after pressing an editor function key.
- Function keys F1 through F5 are terminal keys f1 through f5.
- Function keys F6 through F8 are the following terminal keys:
 - F6 Blue square
 - F7 Red square
 - F8 White square
- To enter shifted function keys, use the numbers on the keypad to the right of the main keyboard. For example, to enter a shifted F3, press:

(SHIFT) (3) + (RETURN)

The (3) key is on the keypad to the right of the main keyboard.

- The F10 through F12 keys are on the keypad to the right of the main keyboard and are:
 - F10 (0)F11 (.)F12 (ENTER)
- The (ERASE) key, followed by (RETURN), rewrites the entire screen.
- The Z19 hardware has tabs set every eighth column beginning with 1. These tabs are set at columns:

1 9 17 25 33 41 49 57 65 73

To specify tabs other than these, use the tab character as set by the ${\rm SET}_{-}$ TAB_OPTIONS subcommand.



Zenith Z29



Equivalent CDC Standard Function Keys:

Viking 721 Key	Zenith Z29 Key	Function
(FWD)	(F1) + (RETURN)	Moves forward to the next screen of the file.
(вкw)	(F2) + (RETURN)	Moves backward to the previous screen of the file.
UP	(F3) + (RETURN)	Positions the file so that the current line is at the top of the screen.
(DOWN)	(F4) + (RETURN)	Positions the file so that the current line is at the bottom of the screen.
HELP	(HELP) + (RETURN)	Displays the editor HELP file.
(EDIT)	DEL) + (RETURN)	Returns you to the previously edited file.
(A) (INSRT)	╓_†	Inserts a blank line over which you can type a new line of text. When you insert lines, the function key prompts move according to the number of lines inserted. To align the prompts properly, press (RETURN). This key does not require you to press (RETURN) afterward.
(INSRT)	lic)†	When you press (IC), it puts the terminal into insert mode. While insert mode is on, pressing any character moves the existing text to the right and inserts the new character. Insert mode is canceled when you either press (IC) a second time or press (RETURN).

[†] Located on the numeric keypad to the right of the main keyboard.

Viking 721 Key	Zenith Z29 Key	Function
(A) (DLETE)	ſ D .†	Deletes the current line. When you delete lines, the function key prompts move according to the number of lines deleted. To align the prompts properly, press RETURN . This key does not require you to press RETURN afterward.
DLETE		Deletes the current character.
	(SHIFT)(ERASE) + (RETURN	Rewrites the entire screen.
(HOME)	(HOME)	Positions the cursor at the editor subcommand line, allowing you to enter editor subcommands.
(NEXT)	RETURN	Ends an input line.

[†] Located on the numeric keypad to the right of the main keyboard.

Initial Programmable Function Key Settings for the Zenith Z29:

Zenith Z29 Key	Description
MARK F1 fwd	F1 fwd moves forward one page in the file. When shifted, F1 MARK marks a line or lines for later use with another subcommand.
MRKCHR F2 bkw	F2 bkw moves backward one page in the file. When shifted, F2 MRKCHR marks a character or characters for use with another function or subcommand.
UNMARK F3 lineup	F3 Lineup moves the current line to the top of the screen. When shifted, F3 UNMARK cancels any marks you have set.
COPY F4 linedn	F4 Linedn positions the current line to the bottom of the screen. When shifted, F4 COPY copies any marked lines or characters to the current line or character.
Move F5 Middle	F5 Middle centers the display vertically around the line the cursor is on. When shifted, F5 Move moves any marked lines or characters to the current line or character.
Endlin F6 UNDO	F6 UNDO undoes the previous change to your file. When shifted, F6 Endlin moves the cursor to the end of the current line.
Left F7 Quit	F7 Quit exits the editor, making changes to your file permanent. When shifted, F7 Left moves your view of the file to the left.

Zeni Z29	ith Key	Description
F8	RIGHT top	F8 top aligns the screen to display the beginning of the file. When shifted, F8 RIGHT moves your view of the file to the right 40 columns.
F9 F10	BOTTOM wrif Locnxt	F9 wrif checkpoints the file being edited (WRITE_FILE). When shifted, F9 EOTTOM aligns the screen centered around the end of the file. When shifted, F10 Locnxt locates the next occurrence of a previously specified string.
F11	Locall	When shifted, F11 Locall locates all occurrences of a previously specified string.
F12	LOCATE	When shifted, F12 LOCATE moves the cursor to the subcommand line and prompts you for the text you want to enter.
F13	Join	When shifted, F13 JOIN adds the line after the current line onto the end of the current line.
F14	Break	When shifted, F14 BREAK divides the current line into two smaller lines just in front of the current column. The cursor stays at the same place, which is just beyond the last character of the first line of the pair.

NOTES

- You must enter **(RETURN)** after pressing an editor function key.
- Function keys F1 through F9 are terminal keys f1 through f9.
- To enter shifted function keys, use the numbers on the keypad to the right of the main keyboard. For example, to enter a shifted F3, press:

(SHIFT (3) + (RETURN)

The (3) key is on the keypad to the right of the main keyboard.

• The F10 through F14 keys are on the keypad to the right of the main keyboard and are:

F10	0	F13	
F11	$\overline{\cdot}$	F14	Ξ

- F12 (ENTER)
- The (ERASE) key, followed by (RETURN), rewrites the entire screen.
- The Z29 hardware has variable tab settings. To specify tabs, use the tab character as set by the SET_TAB_OPTIONS subcommand.

Appendixes

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Glossary

The following terms are used in this manual:

A

Alphabetic Character

One of the following letters:

A through Z

a through z

See Character and Alphanumeric Character.

Alphanumeric Character

An alphabetic character or a digit. See Character, Alphabetic Character, and Digit.

ASCII

American National Standard Code for Information Interchange. A 7-bit code representing a prescribed set of characters. The 7-bit ASCII code character is stored right-justified in an 8-bit byte.



Batch Mode

A mode of execution where a job is submitted and processed as a unit without intervention from the user. Contrast with Interactive Mode.

Block

B

A logical or physical grouping of data.

Boolean

A kind of value that can be either TRUE or FALSE.

Boolean Constant

A constant that represents a boolean (logical) value of TRUE or FALSE. One of the following names can be used to specify a boolean constant:

TRUE	FALSE
YES	NO
ON	OFF

Byte

A group of bits. For NOS/VE, a byte is 8 bits. An ASCII character code uses the rightmost 7 bits of 1 byte.

<u>C</u>

Catalog

A directory of files and catalogs maintained by the system for a user. The catalog \$LOCAL contains only file entries.

Also, the part of a path that identifies a particular catalog in a catalog hierarchy. The format is as follows:

name.name.name

where each name is a catalog. See Catalog Name and Path.

Catalog Name

The name of a catalog in a catalog hierarchy (path). By convention, the name of the user's master catalog is the same as the user's user name.

CDC Standard Keys

Keys on CDC terminals that perform the same functions on all applications and can be performed on all supported terminals.

Character

A letter, digit, space, or symbol that is represented by a code in one or more of the standard character sets.

It is also referred to as a byte when used as a unit of measure to specify block length, record length, and so forth.

A character can be a graphic character or a control character. A graphic character is printable; a control character is nonprintable and is used to control an input or output operation.

Closed File

A file that is no longer open. Changes in a closed file cannot be undone. A closed file is not affected by the END FALSE or QUIT FALSE subcommand.

Command

An instruction to NOS/VE. Commands that can only be entered from within the editor are editor subcommands.

Common Parameter

A parameter used by several subcommands for which the same values can be entered.

Current Line

The line on which the cursor is positioned. If the cursor is on the subcomand line, the current line is the line on which the cursor was positioned when you pressed (HOME).



Current Paragraph

A block of lines including the current line separated from the rest of the file by empty lines.

Current Position

The location of the cursor in the file at this time. The editor determines the current position by the line and column number. If the cursor is on the subcommand line, the current position is the position at which the cursor was positioned when you pressed (HOME).

Cursor

The pointer used by your terminal to indicate where you are positioned in the file.

D

Deck

A sequence of lines in a source library that can be manipulated as a unit by the Source Code Utility (SCU).

Delimiter

A character or sequence of contiguous characters that identify the end of a string of characters and separate that string of characters from the following string of characters. A delimiter is not part of the string of characters that it delimits.

Delimiter String

A string that marks the end of text input.

Digit

One of the following characters:

0123456789

E

Editing Keys

Keys such as (INSRT), (DLETE), and (ERASE), whose functions are predetermined and usually performed by software at your terminal. Contrast with Programmable Function Keys.

Editing Session

The time from when you start the editor (by entering the EDIT_FILE or EDIT_LIBRARY subcommand) to the time you stop the editor.



Ellipsis

- 1. Two or more consecutive periods at the end of a physical line to indicate command line continuation. The ellipsis can be optionally preceded and/or followed by a space.
- 2. Two consecutive periods separating two values to indicate a range of values in a parameter list.

End-of-Partition (EOP)

A special delimiter in a file with variable record type.

Epilogue

The procedure file that is executed when you stop the editor.

F

Family

A logical grouping of NOS/VE users that determines the location of their permanent files. A family can be subdivided into accounts and projects.

Family Name

A name that identifies a NOS/VE family. See Family.

File

An SCL element specifying a temporary or permanent file, including its path and, optionally, a cycle reference (for permanent files). A file is identified by specifying a path and, optionally, a cycle reference (for permanent files) as follows:

path.cycle reference

A collection of information referenced by a name.

File Header

The line containing the file name. It is displayed during a screen editing session.

File Name

The name of a NOS/VE file. It is used in a file reference to identify the file. See Name.

File Position

The location in the file at which the next read or write operation will begin. The file position designators are:

- \$ASIS Leave the file in its current position.
 \$BOI Position the file at the beginning-of-information.
 \$EOI Position the file at the end-of-information.
- A-4 Full Screen Editor

File Reference

An SCL element that identifies a file and, optionally, the file position to be established prior to use. The format of a file reference is as follows:

file.file position

See File and File Position.

FSE

See Full Screen Editor.

Full Screen Editor

An editor enabling you to edit files either page by page or line by line.

Function Key

A key on the terminal that, when pressed, performs a specified operation. The operation can be either defined by the software or built into the terminal.

Function Key Prompts

Labels displayed on your screen which describe the function of a programmable function key prompt.

G

Graphic Character

A character that can be printed or displayed.

I

Integer

A value representing one of the numbers 0, +1, -1, +2, -2 ...

Interactive Mode

A mode of execution where a user enters commands at a terminal and each command elicits a response from the computer. Contrast with Batch Mode.

J

Job

A set of tasks executed for a user name. NOS/VE accepts interactive and batch jobs. In interactive mode, a job is usually the same as a terminal session.



L

Line Identifier

The unique identifier of a line in a deck. The line identifier consists of a modification name followed by a sequence number. The modification name identifies the modification to which the line belongs.

Local File

A file that is accessed via the local catalog named \$LOCAL. See also File, Path, and Local Path.

Local File Name

The name used by an executing job to reference a file while the file is assigned to the job's \$LOCAL catalog. Only one file can be associated with a given name in one job; however, in one job a file can have more than one instance of the file open by that name.

Local Path

Identifies a local file as follows:

\$LOCAL.file name

Login

The process used to gain access to the system.

Logout

The process used to end a job.

Μ

Mask Character

A character the editor considers a match to any character in a string comparison. In other words, it is a wild card character.

Message Row

The row on the screen where messages are displayed.

Ν

Name

A combination of from 1 through 31 characters chosen from:

Alphabetic characters (A through Z and a through z)

Digits (0 through 9)

Special characters (#, @, \$, or _)

The first character of a name cannot be a digit.

Numeric Character

Any digit 0 through 9.

0

Object

The thing being edited. In this manual, either a file or a deck.

Open File

A file prepared for data access. In this manual, an open file is a file that is being edited or a file that has been edited but has not been closed with the END_FILE subcommand. When you enter the END or QUIT subcommand all open files are closed.

P

Path

Identifies a file. It may include the family name, user name, subcatalog name or names, and file name.

Permanent Catalog

A catalog of permanent files.

Permanent File

A file that does not go away when you log off or when the system is deadstarted. A permanent file has an entry in a permanent catalog. See File.

Programmable Function Keys

Keys whose function you can redefine. Contrast with Editing Keys.

Prologue

The file of commands that is executed when you start the editor.

S

Search Margins

An editing mode in which a file is edited with a page of text as the basic unit of operation. Also, an SCU editor string-search option that restricts a string search to a range of columns in each line.

Subcommand

A command that can only be entered and recognized from within the editor.



Т

Text-Embedded Directive

A text line that SCU processes as a directive when expanding a deck or a file.

U

User Name

A name that identifies a NOS/VE user and the location of a user's permanent files in the user's family.

User Path

Identifies a file or catalog via a user name and optionally a relative path as follows:

.user name.relative path

or

\$USER.relative path

V

V-Type Record

Variable-sized records; system default record type. Each V-type record has a record header. The header contains the record length and the length of the preceding record.

W

Word

A string of alphanumeric characters (plus the special characters \$, #, @, and _) delimited by nonalphanumeric characters, blank characters, and beginning or end of lines.

Table B-1 lists the ASCII character set used by the NOS/VE system.

NOS/VE supports the American National Standards Institute (ANSI) standard ASCII character set (ANSI X3.4–1977). NOS/VE represents each 7bit ASCII code in an 8-bit byte. The 7 bits are right-justified in each byte. For ASCII characters, the leftmost bit is always zero.

In addition to the 128 ASCII characters, NOS/VE allows use of the leftmost bit in an 8-bit byte for 256 characters. The use and interpretation of the additional 128 characters is user defined.





Table B-1.	ASCII	Character	Set
------------	-------	-----------	-----

ASCII Code		<u> </u>		
Decimal	Hexadecimal	Octal	Graphic or Mnemonic	Name or Meaning
000	00	000	NUL	Null
001	01	001	SOH	Start of heading
002	02	002	STX	Start of text
003	03	003	ETX	End of text
004	04	004	EOT	End of transmission
005	05	005	ENQ	Enquiry
006	06	006	ACK	Acknowledge
007	07	007	BEL	Bell
008	08	010	BS	Backspace
009	09	011	HT	Horizontal tabulation
010	0 A	012	LF	Line feed
011	0B	013	VT	Vertical tabulation
012	OC	014	FF	Form feed
013	OD	015	CR	Carriage return
014	OE	016	SO	Shift out
015	OF	017	SI	Shift in
016	10	020	DLE	Data link escape
017	11	021	DC1	Device control 1
018	12	022	DC2	Device control 2
019	13	023	DC3	Device control 3
020	14	024	DC4	Device control 4
021	15	025	NAK	Negative acknowledge
022	16	026	SYN	Synchronous idle
023	17	027	ETB	End of transmission block
024	18	030	CAN	Cancel
025	19	031	EM	End of medium
026	1A	032	SUB	Substitute
027	1B	033	ESC	Escape
028	1C	034	FS	File separator
029	1D	035	GS	Group separator
030	1E	036	RS	Record separator
031	1F	037	US	Unit separator
032 033 034 035	20 21 22 23	040 041 042 043	SP !, #	Space Exclamation point Quotation marks Number sign
036 037 038 039	24 25 26 27	044 045 046 047	\$ % &	Dollar sign Percent sign Ampersand Apostrophe
040 041 042 043	28 29 2A 2B	050 051 052 053	() *	Opening parenthesis Closing parenthesis Asterisk Plus
044 045 046 047	2C 2D 2E 2F	054 055 056 057	, ./	Comma Hyphen Period Slant

(Continued)

ASCII Code		Creatian		
Decimal	Hexadecimal	Octal	- Graphic or Mnemonic	Name or Meaning
048	30	060	0	Zero
049	31	061	1	One
050	32	062	2	Two
051	33	063	3	Three
052	34	064	4	Four
053	35	065	5	Five
055	30 37	065	6 7	S1X Souch
050	51	007	1	Beven
056	38	070	8	Eight
057	39	071	9	Nine
058	3A 3B	072	•	Colon Somicolon
000	3B 9G	073	,	Semicolon
060	30	074	<	Less than
061	3D 2F	075	=	Equals
062	3E 3F	078	2	Question mark
064	40	100		Commencial at
065	40	100	A	Upperense A
066	41	101	R	Uppercase R
067	43	102	č	Uppercase C
068	44	104	D	Unpercase D
069	45	105	Ĕ	Uppercase E
070	46	106	F	Uppercase F
071	47	107	G	Uppercase G
072	48	110	Н	Uppercase H
073	49	111	I	Uppercase I
074	4A	112	J	Uppercase J
075	4B	113	K	Uppercase K
076	4C	114	L	Uppercase L
077	4D	115	M	Uppercase M
078	4E 4F	116	N O	Uppercase N Uppercase O
010	50	100	D	
080	50	120	P	Uppercase P
089	01 59	121	Q P	Uppercase Q
082	53	122	S	Uppercase S
084	54	194	Ť	
085	55	124	I I	Uppercase I
086	56	126	v	Unnercase V
087	57	127	ŵ	Uppercase W
088	58	130	х	Uppercase X
089	59	131	Ŷ	Uppercase Y
090	5 A	132	Z	Uppercase Z
091	5B	133	[Opening bracket
091	5 B	133	[Opening bracket

Table B-1. ASCII Character Set (Continued)

(Continued)



ASCII Code		a 11		
Decimal	Hexadecimal	Octal	- Graphic or Mnemonic	Name or Meaning
092	5C	134		Reverse slant
093	5D	135		Closing bracket
094	5E	136		Circumflex
095	5F	137		Underline
096 097 098 099	60 61 62 63	140 141 142 143	a b c	Grave accent Lowercase a Lowercase b Lowercase c
100	64	144	d	Lowercase d
101	65	145	e	Lowercase e
102	66	146	f	Lowercase f
103	67	147	g	Lowercase g
104	68	150	h	Lowercase h
105	69	151	i	Lowercase i
106	6A	152	j	Lowercase j
107	6B	153	k	Lowercase k
108	6C	154	l	Lowercase l
109	6D	155	m	Lowercase m
110	6E	156	n	Lowercase n
111	6F	157	o	Lowercase o
112	70	160	p	Lowercase p
113	71	161	q	Lowercase q
114	72	162	r	Lowercase r
115	73	163	s	Lowercase s
116	74	164	t	Lowercase t
117	75	165	u	Lowercase u
118	76	166	v	Lowercase v
119	77	167	w	Lowercase w
120	78	170	x	Lowercase x
121	79	171	y	Lowercase y
122	7 A	172	z	Lowercase z
123	7 B	173	{	Opening brace
124 125 126 127	7C 7D 7E 7F	174 175 176 177)) DEL	Vertical line Closing brace Tilde Delete

Table B-1. ASCII Character Set (Continued)

Subcommand Strings That Define Function Keys C

The appendix lists the initial settings of the programmable function keys for all the supported terminals. The string is the command string which defines the particular key and the key prompt is the label that appears on the screen.

Viking 721 Subcommand String Settings

The subcommand strings associated with the initial settings for the Viking 721 terminal are:

String	Key Prompt
1 mark_lines unmark	MARK Unmrk
2	
mark_characters mark_boxes	Chrmk Boxmk
3 align_screen top=first align_screen middle=last	FIRST LAST
4 align_screen middle=current position_cursor l=c c=\$strlen(\$lt)+1	middle endlin
5 undo	UNDO
6 end	END
7 locate_text t=\$screen_input('Enter search string') position_cursor; position_cursor rs=true	LOCATE locnxt
<pre>8 esv\$text=\$screen_input('Enter search string'); if esv\$text='' then; esv\$text=\$text;</pre>	locall
<pre>ifend: locate_text rs=true l=a v=true t=esv\$text exchange_screen_width</pre>	80/132



VIKING 721 SUBCOMMAND STRING SETTINGS

String	Key Promp
9	
<pre>insert_empty_lines p=b n=\$split_size-4; position_cursor d=b n=2; align_screen top=c position_cursor r=\$title_row+3</pre>	insel
delete_empty_lines	delel
10	
insert_characters nt='	inswrd
delete_word	delwrd
11	
break_text	Break
10	
12 join text	Join
Join-coxe	00111
	0
copy_text l=m p=b	Сору
nove_text t-m p-b; unmark	MOVE
15	
<pre>indent_text l=m offset=2</pre>	INDENT
indent_text l=m offset=-2	dedent
16	
format_paragraphs	Format
center line	Center

CDC 722 Subcommand String Settings

The subcommand strings associated with the default settings for the CDC 722 terminal are:

String	Key Prompt
1 align_screen bottom=first_screen align_screen_ton=last_screen	BKW
2 align_screen bottom=current align_screen top=current	Linedn Lineup
3 delete_characters c=c insert_characters nt=' '	DELC INSC
4 delete_lines l=c insert_lines p=b nt=''; position_cursor d=b	DELL INSL
5 undo mark_lines	Undo MARK
6 move_text l=m p=b; unmark copy_text l=m p=b	Move Copy
7 align_screen o=0 help	Left HELP
<pre>8 esv\$off=30; if \$current_column<>1 then; esv\$off=\$current_column-1; ifend; align_screen offset=esv\$off; position_cursor l=c c=\$current_column+30</pre>	Right
end	END
9	
unmark position_cursor l=c c=\$strlen(\$lt)+1)	Unmrk Endlin



CDC 722-30 Subcommand String Settings

The subcommand strings associated with the default settings for the CDC 722–30 terminal are:

String	Key Prompt	
1 Junnark	linnek	
mark lines	MARK	
2 mark boyes	Boymk	
mark_boxes	Chrmk	
3	1	
align_screen_top=current	L1NUP EWD	
	rwv .	
4		
align_screen bottom=current		
atign_screen bottom=first_screen	DKW	
5		
help	Help	
unao	UNDO	(
6		
if\$offset=0 then; alis o=53; else; alis o=0; ifend	Offset	
end	END	
7		
<pre>position_cursor; position_cursor rs=true;</pre>	locnxt	
<pre>locate_text t=\$screen_input('Enter search string')</pre>	Locat	
8		
move_text l=m p=b; unmark	Move	
copy_text l=m p=b	COPY	
9		
align_screen middle=last	Last	
align_screen top=first	First	
10		
<pre>position_cursor l=c c=1+\$strlen(\$lt)</pre>	Endln	
align_screen middle=current	middl	
11		
break_text	Break	
12		
ioin text	Join	
		4

DEC VT100 Subcommand String Settings

The subcommand strings associated with the default settings for the DEC VT100 terminal are:

String	Key Prompt
1 align_screen bottom=first_screen align_screen_top=last_screen	BKW FWD
2 align_screen bottom=current align_screen top=current	Linedn Lineup
3 delete_characters c=c insert_characters nt=' '	DELC INSC
4 delete_lines l=c insert_lines p=b nt=''	DELL INSL
5 undo mark_lines	Undo MARK
6 move_text l=m p=b; unmark copy_text l=m p=b	Move Copy
7 position_cursor r=\$home_row c=1 help	HOME HELP
8 activate_screen end	Clear END
9 unmark position_cursor l=c c=\$strlen(\$lt)+1)	Unmrk Endlin





IBM PC (or Equivalent) Subcommand String Settings

The subcommand strings associated with the default settings for the IBM PC (or equivalent) terminal are:

String	Key Prompt
1 unmark	Unmrk
mark_lines	MARK
2 delete text l=c b=s c=\$ccmax	Trunc
mark_characters	Chrmk
3	
move_text l=m p=b; unmark	Move
copy_text l=m p=b	COPY
4	
join_text	Join
break_text	Break
5	
acts	Clear
undo	UNDO
6	
quit	QUIT
7	
locate_next	locnxt
<pre>locate_string t=\$screen_input('Enter search string')</pre>	Locate
8	
if\$offset=0 then; alis o=53; else; alis o=0; ifend	Offset
esv\$text=\$screen_input('Enter search string'); if esv\$text='' then locate_all; else; locate_all t=esv\$text; ifend	Locall
9	
format_paragraphs	Format
align_screen middle=current	middle
10	•
center_lines	Center
position_cursor l=c c=astrlen(alt)+i	Englin

Zenith Z19/Heathkit H19 Subcommand String Settings

The subcommand strings associated with the default settings for the Zenith Z19 and Heathkit H19 terminal are:

String	Key Prompt
1 mark_lines align_screen top=last_screen	MARK FWD
2 mark_characters align_screen bottom=first_screen	Mrkchr BKW
3 unmark align_screen top=current	Unmark Lineup
4 copy_text l=m p=b align_screen bottom=current	Copy Linedn
5 move_text l=m p=b;unmark align_screen middle=current	Move Middle
6 position_cursor l=c c=\$strlen(\$lt)+1 undo	Endlin UNDO
7 align_screen offset=0 end	Left Quit
<pre>8 esv\$off=30; if \$current_column<>1 then; esv\$off=\$current_column-1; ifend; align_screen offset=esv\$off;</pre>	Right
position_cursor l=c c=\$current_column+30 help	HELP





ZENITH Z19/HEATHKIT H19 SUBCOMMAND STRING SETTINGS

String	Key Prompt
10 position_cursor; position_cursor rs=true	Locnxt
<pre>11 esv\$text=\$screen_input('Enter search string'); if esv\$text='' then; esv\$text=\$text; ifend; locate_text rs=true l=a v=true t=esv\$text</pre>	Locall
<pre>12 locate text t=\$screen input('Enter search string')</pre>	LOCATE

Zenith Z29 Subcommand String Settings

The subcommand strings associated with the default settings for the Zenith Z29 terminal are:

String	Key Prompt
1 mark_lines align_screen top=last_screen	MARK fwd
2 mark_characters align_screen bottom=first_screen	MRKCHR bkw
3 unmark align_screen top=current	UNM ARK Lineup
4 copy_text l=m p=b align_screen bottom=current	COPY Linedn
5 move_text l=m p=b; unmark align_screen middle=current	MOVE Middle
6 position_cursor l=c c=\$strlen(\$lt)+1 undo	Endlin UNDO
7 align_screen offset=0 end	Left Quit
<pre>8 esv\$off=30; if \$current_column < > 1 then; esv\$off=\$current_column ifend; align_screen offset=esv\$off; position_cursor l=c c=\$current_column+30 align_screen_ton=first</pre>	RIGHT
	τοp
align_screen middle=last write_file	BOTTOM wrif
<pre>10 position_cursor; position_cursor rs=true;</pre>	Locnxt

Revision C

ZENITH Z29 SUBCOMMAND STRING SETTINGS

String	Key Prompt	
<pre>11 esv\$text=\$screen_input('Enter search string'); if esv\$text='' then; esv\$text=\$text; ifend; locate_text rs=true l=a v=true t=esv\$text</pre>	Locall	
12 locate_text t= \$ screen_input('Enter search string')	LOCATE	
13 join_text	JOIN	
14 break_text	BREAK	

Viking 721 Terminal Settings

The Viking 721 terminal has three sets of parameters that must be set correctly to ensure correct operation under the editor. The first set, the terminal installation parameters, tells the terminal what additional items are installed with the terminal. The second set, the mode installation parameters, determines how each mode will operate. The third set, the operator parameters, allows the terminal user to change certain guidelines.

Once the terminal is installed the first two sets of parameters need not be changed. The settings are stored in the terminal's nonvolatile memory and do not need to be reentered unless the battery loses its power. If you want detailed information about these parameters refer to the Control Data 721-21/31 Owner Manual. The CDC 721-10/20/30 Hardware Reference Manual also contains the needed information (ordering information is in About This Manual).

The operator parameters allow you to temporarily change some of the guidelines set up when the terminal was installed. When you reset the terminal or turn it off, the settings go back to their defaults. To change the default setting you must change some of the installation parameters. For use with the editor the operator parameters should be set as shown here. These parameters are software toggle switches. That is, you have a limited number of options (usually two) from which to choose. To change a setting, press the corresponding programmable function key. The first set of prompts appears when you turn on your terminal.



Press:



to select CYBER mode. At this point, the screen becomes blank except for the cursor.

Press:

(SETUP)

to display the operator parameters and change them, if necessary, to the following settings:

F	Return F		LINE	F	PRNTR	F	MARGIN	F	ALERT	F	LOC K	F	N PAD	F	SCREEN	F	CYBER	F	MORE
1	2	2	ON	3	OF F	4	ON	5	SOFT	6	ALPHA	7	NORMAL	8	ROLL	9	LARGE	10	SELECT



Then, press:



to set more operator parameters to the following:



When you have set all parameters, press



to remove the prompts from the screen. You are now ready to \log in to NOS/VE.

NOTE

You must also ensure that parity is set to EVEN or NONE.


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Full Screen Editor for NOS/VE 60464015 C



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