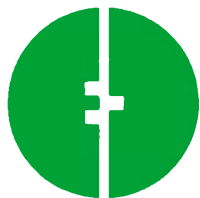


# NEVADA EDIT™



**ELLIS COMPUTING™**  
SOFTWARE TECHNOLOGY



**NEVADA EDIT (tm)**

**Users' Reference Manual**

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## NEVADA EDIT

## A TEXT EDITOR FOR CP/M

## TABLE OF CONTENTS

SECTION		
1	INTRODUCTION . . . . .	5
2	OPERATING PROCEDURES . . . . .	6
	HARDWARE REQUIREMENTS . . . . .	6
	SOFTWARE REQUIREMENTS . . . . .	6
	FILES ON DISTRIBUTION DISKETTE . . . . .	6
	GETTING STARTED . . . . .	6
	EXECUTING EDIT . . . . .	9
	STARTUP . . . . .	10
	MEMORY USAGE . . . . .	11
	TERMINATION . . . . .	11
	CREATING YOUR FIRST FILE . . . . .	12
3	EDITOR COMMANDS . . . . .	13
	CURSOR POSITIONING . . . . .	15
	CURSOR HOME . . . . .	16
	CURSOR MID SCREEN . . . . .	17
	SCREEN SCROLLING . . . . .	18
	TAB . . . . .	19
	STRING SEARCH . . . . .	20
	CONTINUE SEARCH . . . . .	21
	INSERT CHARACTER . . . . .	22
	DELETE CHARACTER . . . . .	23
	INSERT LINE ABOVE . . . . .	24
	INSERT LINE BELOW . . . . .	25
	SPLIT LINE . . . . .	26
	DELETE LINE . . . . .	27
	BLANK REMAINING LINE . . . . .	28
	REPEAT . . . . .	29
	EXIT - NORMAL . . . . .	30
	EXTENDED COMMANDS . . . . .	31
	EXIT - ABORT . . . . .	32
	VARIABLE TAB . . . . .	33
	BLOCK COPY . . . . .	34
	BLOCK MOVE . . . . .	35
	NO FUNCTION . . . . .	36
	FIRST LINE . . . . .	37
	LAST LINE . . . . .	38
	START FILE . . . . .	39
	END FILE . . . . .	40
	REPLACE PATTERN . . . . .	41
	INSERT FILE . . . . .	43
	TAB STOPS . . . . .	44

## TABLE OF CONTENTS (continued)

4	ERROR CODES AND MESSAGES . . . . .	45
5	CONFIGURING UNKNOWN TERMINAL . . . . .	46
	USER FEED BACK . . . . .	48
6	EDTKEY . . . . .	51
7	TABLE OF ASCII CODES . . . . .	52
	SOFTWARE LICENSE INFORMATION . . . . .	54
	CORRECTIONS AND SUGGESTIONS . . . . .	56
	INDEX . . . . .	57
	SUMMARY OF CONTROL KEYS . . . . .	BACK COVER

## SECTION 1

## INTRODUCTION

The EDIT command initiates execution of a text editor program intended for use with the CP/M operating system. When the EDIT command is given, the named file is read into memory and the first screenful of lines are displayed. The user may then either edit the file using single-letter control character commands, or, in the case of a new file, simply begin entering text as though on a typewriter, with all typed material appearing on the screen and all editor commands available for making corrections.

The single-letter control character commands make it possible to move the cursor anywhere on the screen, or to move through the file so that any desired screenful of lines are visible. Characters or entire lines may be inserted, deleted, or moved from one part of the file to another. Text may be scrolled up and down, i.e., it is possible to move either backwards or forwards in a file and to stop this process when the desired part of the file is visible. There are also provisions for searching a file for particular strings of characters, replacing every occurrence of a given string with another string, and inserting another whole file into the text being edited.

At the conclusion of editing, the file may be written back to itself as an update, or it may be written to another named file, if several slightly different versions of one file are needed, or if a back-up of the same file is desired. Editor commands may also be used to divide a file into two or more files, if the original file becomes too long. The entire edited file is in memory at once, so it is even possible to choose NOT to save the file after editing. (This feature might be used if you made extensive corrections and suddenly realized they were not appropriate.)

This editor accepts lines containing no more than the screen width as specialized for your machine. Lines longer than the specialized line length are broken into two or more lines as required. Each continuation line begins with a (+) plus sign (user changeable). When the file is written back to the disk the (+) signs are removed and the lines concatenated. There is no minimum line length.

## SECTION 2

### OPERATING PROCEDURES

#### HARDWARE REQUIREMENTS

1. 8080/Z80/8085 microprocessor.
2. A minimum of 32K RAM.
3. Any disk drive.
4. CRT or Video display and keyboard.

#### SOFTWARE REQUIREMENTS

Digital Research Corp's CP/M operating system  
Version 1.4 or 2.2.

CP/M is a registered trademark of Digital  
Research Inc.

#### FILES ON THE DISTRIBUTION DISKETTE

NVEDIT.COM is the text editor program.  
NVEDIT.ERR is the error message file and must  
be on the default drive during  
configuring.  
NVEDIT.PRN is the assembly language source code  
that can be used for special default  
modifications.  
READ-ME.TXT contains new information not in the  
manual. \*\*\* Important read this file  
by typing:  
                  TYPE READ-ME.TXT  
EDTKEY.COM is used to reassign key functions.

#### FILES NOT ON THE DISKETTE

EDIT.COM this file will be created for your CRT.

#### GETTING STARTED

If the master disk is not write protected, do it now!

1. NEVADA EDIT is distributed on a DATA DISK without the CP/M operating system. There is no information on the system tracks, so don't try to "boot it up", it won't work!

2. On computer systems with the ability to read several disk formats, such as the KayPro computer, the master diskette must be used in disk drive B. This is the procedure, whenever the distribution disk is single density



and the normal machine format is double density. In general double density machines can read single density diskettes, provided the proper software disk drivers are in place. These software disk drivers may be in the CP/M bios or may be automatically inserted in the bios by software packages such as SETUP or UNIFORM.

3. Do not try to copy the master diskette with a COPY program! On most systems it won't work. You must use the CP/M PIP command to copy the files.

4. You must first, prepare a CP/M system's diskette for use as your NEVADA EDIT operations diskette. On 5 1/4 inch diskettes you may have to remove (use the CP/M ERA command) most of the files in order to make room for the EDIT files. None of the CP/M files are needed for NEVADA EDIT, but PIP.COM and STAT.COM are useful if you have the space. You may want to do a CP/M STAT command on the distribution disk so you will know how much space you need on your operational diskette. For more information read the CP/M manuals about the STAT command.

5. Then insert the newly created CP/M diskette in disk drive A, and insert the NEVADA EDIT diskette in drive B and type (ctl-c) to initialize CP/M. Now copy all the files from the EDIT diskette onto the CP/M diskette:

```
PIP A:=B:*. *[V0]
```

If you get a BDOS WRITE ERROR message from CP/M during the PIP operation it usually means the disk is full and you should erase more files from the operational diskette.

On single drive systems, use the single drive copy program that comes with your hardware system to copy the files. Consult your hardware dealer for more information.

At this point, put the NEVADA EDIT diskette in a safe place. You will not need it unless something happens to your operations diskette. By the way, back up your operations diskette with a copy each week! If your system malfunctions you can then pat yourself on the back for having a safe back up copy of your work.

Now, boot up the newly created NEVADA EDIT operations diskette. Notice that CP/M displays the amount of memory for which this version of CP/M has been specialized.

Editing should be done on the same CP/M version or one of larger memory.

Next, configure NEVADA EDIT for your CRT or Video Display by issuing the Command:

A>NVEDIT<CR>

The program will present you with a choice of Terminals and prompt your next steps. EDIT.COM will be created on the default drive by the process, so make sure there is 16K disk space available. This is the EDIT program configured to your equipment.

If your terminal is listed, you need do no more than press one key in order to proceed. If your terminal is not listed, press "W" for unknown, and you will be asked a series of questions about its characteristics. See Section 5 for an example of the interaction involved in the configuring process.

NVEDIT Version 3.0 configuring

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@ ANSI MODE TERMINAL

A ADVANTAGE

B APPLE COMPUTER, 40 COLUMN DISPLAY (sends soroc i/q 120)

C APPLE COMPUTER + VIDEX 80 COLUMN BOARD (soroc i/q 120)

D BEEHIVE 150 or CROMENCO 3100

E COMMODORE 64

F FREEDOM 100

G HAZELTINE 1400 SERIES

H HAZELTINE 1500 SERIES

I HEATH H19/H89 OR ZENITH Z19/Z89

J HEWLETT-PACKARD 2621

Type a single letter to select terminal.

<Carriage Return> for more terminals

K IBM PERSONAL COMPUTER+ BABY BLUE CARD

L INFOTON I-100

M LEAR-SEIGLER ADM-3A

N LEAR-SEIGLER ADM-31

O MICROTERM ACT-IV

P OSBORNE I

Q PERKIN-ELMER 550 (BANTOM)

R PROCESSOR TECHNOLOGY SOL OR VDM

S SOROC IQ-120/140

T SUPERBRAIN (control-w reassigned)

U TELEVIDEO 950

V TRS-80, MOD II (P. & T. CP/M)

W NONE OF THE ABOVE

Type a single letter to select terminal.

<Carriage Return> for more terminals R

-----

ENTER FILE TYPE TO BE USED  
AS DEFAULT (3 CHARACTERS) CBL (for COBOL)

DEFAULT TAB STOPS ARE SET FOR COBOL.  
DO YOU WISH TO CHANGE THEM? (Y/N) N

CONFIGURING OF EDIT.COM IS COMPLETE.

EDIT.COM SAVED ON THE DEFAULT DRIVE.

If your computer is an Apple, you must run the Microsoft program to configure the Softcard (TM of Microsoft): MBASIC CONFIGIO. Select the Soroc IQ-120 as your software terminal. Also, using the CONFIGIO, delete the reassignment of all control keys.

If you are using the Videx 80 column board on your Apple, the Control-A key is used as an upper-lower case switch.

The file NVEDIT.PRN contains information for further configuring to meet special needs or to change keys used for special functions. For example, some models of Televideo terminals that do not respond to codes for insert line or delete line require that you use this method to obtain these functions. Select the Televideo choice when you run NVEDIT and if these functions do not work, then use DDT to place a zero in the IL and DL locations. This will force a rewriting of the screen for these functions.

The NVEDIT.COM file is no longer needed on the disk and can be removed if you need the disk space.

When you have a version working on your computer and terminal, you may run the additional program EDTKEY if you wish to change the keyboard keys used for specific edit functions. The program will prompt you how to proceed. See a sample run of this program in Section 6 of this manual.

## EXECUTING EDIT

This section provides a general overview of the operation of EDIT.

### FORMAT-1:

EDIT from-file<CR>

**FORMAT-2:**

EDIT from-file [to-file] <CR>

**DESCRIPTION:**

where:

file = [unit:]file-name[.file-type]

[ ] = optional parameters

unit: = disk drive unit letter. If this parameter is not included, the default drive is used.

from-file = the file that contains the text to be edited. This file will be loaded into memory when the EDIT command is entered.

to-file = the file to which the edited file will be written at the conclusion of editing. If no [to file] is specified, the file is written back to the from-file.

file-type = the CP/M file type. If not present the default file type as specified during configuring will be used.

The editor uses all the memory up to the bottom of CP/M. Warning, if you are using several different machines each with the same amount of memory, sometimes the bottom of CP/M will be lower on one machine because of blocking routines in CP/M.

**STARTUP**

A>EDIT from-file<CR>

The from-file is read from the disk into memory for editing. If the named file does not exist, the editor asks whether a new file by that name should be created:

FILE IS NON-EXISTENT. CREATE?

If the character 'Y' is typed, the file will be created with the specified type or the default type e.g.(.CBL), and the new (empty) file will be loaded into memory. (This procedure is one of the ways of creating a new file in CP/M). If a character other than 'Y' is typed, control will return to CP/M.

When a file is loaded successfully, the following information is presented:

BYTES FREE 12345 DECIMAL  
C/R TO CONTINUE

As soon as the carriage return (C/R) is entered, the first screenful of the file is displayed, with the cursor at line 1 and character 1 (column 1). If the file contains just a few lines, the remainder of the screen will be filled with blank characters. The file is now ready for editing.

## MEMORY USAGE

The EDIT program is read into memory starting at location 100H. The from-file is then read into a file area beginning just after the EDIT program code, and ending at the top-of-memory as indicated by CP/M.

The entire from-file must fit into available contiguous memory. If an edit operation would increase the size of a file so that the text would no longer fit in the text area, a message appears on the cursor line:

### FULL - TYPE CONTROL Q

The offending operation will not be performed. After typing the Control and Q keys simultaneously, the user should either shorten the file by removing text, or leave the editor by typing the Control and K keys. If the second alternative is chosen, the file will be written back onto the disk; the editor can then be used to create a continuation file, or to split the large file into two smaller files, so that further additions can be made to each. (The discussion of EN and ST, later, contains a step-by-step procedure for splitting a file.)

## TERMINATION

There are two ways to terminate the editing of a file:

1. Control and K keys terminate EDIT and update the file.

If a to-file was specified in the EDIT command, the contents of the text area can be written to that file or to some other file. If the to-file parameter was omitted from the EDIT command, the from-file can be updated with the edited material. (Remember that when you write to a file, you write over the previous contents of that file.) In either case, the user is given the option of what file is to be written.

2. Control and B keys followed by AB <CR> aborts the EDIT program.

If you do not wish to save the file in memory by writing it to the to-file, type Control B and then enter "AB" followed by a carriage return.

### CREATING YOUR FIRST FILE A walk through.

On your system type:

EDIT SAMPLE <CR>

the following message will appear:

NEVADA EDIT (C) COPYRIGHT 1981,1982  
ELLIS COMPUTING, INC.  
REV 3.0 (0)  
terminal name

A:SAMPLE CBL IS NON-EXISTENT. CREATE (Y/N)? y type y <cr>

BYTES FREE 33196 DECIMAL (space available on your system)  
C/R TO CONTINUE type <cr>

at this point the entire screen is blank

so type your name or something.  
and type a carriage return for next line.

THE GOOD GUYS AT ELLIS COMPUTING<cr> an example.

now type Control-K  
the following message appears:

\*\*\* EDITOR EXIT 00028 DECIMAL FILE COUNT

OK TO WRITE TO "A:SAMPLE CBL"? Y you type y

OK TO QUIT (Y/N)? Y you type y

and we are back to CP/M. the file can be displayed by typing:

TYPE SAMPLE.CBL<CR>

### SECTION 3

#### EDITOR COMMANDS

In the introduction to this manual, it was explained that the editor can be used for two purposes. By entering the EDIT command and the name of a file that does not yet exist, one can create that file and use the editor to enter text (e.g., a program, a letter) for the first time. In this context the control character commands permit corrections to be made conveniently; it is possible to retype words, restructure paragraphs or other segments of text, without having to retype the surrounding material. The other use of the editor is to make alterations in existing text files (probably created in the same editor on an earlier occasion).

Below is a list of the control keys used by the editor. A more complete description of each command is given after the list. To enter a control character, type the Control key and the named letter key at the same time.

**CONTROL KEYS:**

Control E - move the cursor up one line  
Control X - move the cursor down one line  
Control S - move the cursor left one character  
Control D - move the cursor right one character  
Control I - move cursor to next tab stop  
Control Z - scroll file up one line  
Control W - scroll file down one line  
Control C - scroll file up one half screen  
Control R - scroll file down one half screen  
Control Q - home cursor to line 1, column 1  
          also escape from FULL  
Control A - cursor to mid screen, column 1  
Control V - toggle insert character mode; ON/OFF  
Control - repeat next command n times (underline)  
Control G - delete character under cursor  
Control N - insert line above cursor  
Control Y - delete line  
Control \ - split line  
Control T - delete from cursor to end of line  
Control F - initiate string search mode  
Control L - continue search for string  
Control B - set TAB/BLOCK MOVE/NULL/LL/FL/ST/EN/PA/IF/TS/AB  
Control U - execute TAB / BLOCK MOVE  
Control K - exit editor  
Control M - same as RETURN (below)

**OTHER KEYS:**

TAB - move cursor to next tab stop (Control I)  
RETURN - insert line below cursor (Control M)



**CURSOR POSITIONING****CURSOR POSITIONING**

**FUNCTION:** To position the cursor on the screen.

**COMMANDS:**

Control E  
Control X  
Control S  
Control D

**DESCRIPTION:**

The cursor positioning commands do not affect the contents of the file in memory; their purpose is to move the cursor to the desired position on the screen, so that insertions or changes may be made there.

Control E move cursor up one line  
Control X move cursor down one line  
Control S move cursor left one character  
Control D move cursor right one character

Note that the keys S, D, E, X form a diamond on the keyboard.

Some keyboards also contain special cursor control keys such as the left arrow, right arrow, up arrow and down arrow. These keys are used without the Control key to move the cursor left, right, up or down, as above, but their use may require a configuring change to EDIT. See EDTKEY in the back of this manual.

The cursor marks the position at which the next typed character will appear on the screen (and so, also, in the file in memory). In general, any character entered from the keyboard, except a control character, will replace the character at the cursor position. (There is a special command that makes it possible to insert text at the cursor position without "typing over" any other characters. That command, the INSERT CHARACTER command, will be described later.)

**CURSOR HOME****CURSOR HOME**

**FUNCTION:** To move the cursor to the home position.

**COMMAND:**

Control Q

**DESCRIPTION:**

This command causes the cursor to be moved to line 1 and character position 1.

This command has another unrelated function described earlier in the discussion of how the editor uses memory. It is used as an escape from the memory FULL condition.

Because these functions are useful in two completely different contexts, there is never any ambiguity as to the user's intentions.

**CURSOR MID SCREEN****CURSOR MID SCREEN**

**FUNCTION:** To move the cursor to mid screen.

**COMMAND:**

Control A

**DESCRIPTION:**

This command causes the cursor to be moved to the mid screen line and character position 1.

## SCREEN SCROLLING

## SCREEN SCROLLING

FUNCTION: To scroll the screen up or down.

## COMMANDS:

Control Z  
Control W  
Control C  
Control R

## DESCRIPTION:

Screen scroll commands are provided to allow the file to be "rolled" through the screen area until the desired file line is reached. Scrolling UP moves the file upward across the screen, so that a LATER part of the file becomes visible; scrolling DOWN moves the file downward across the screen, so that an EARLIER part of the file becomes visible.

Control Z scroll up one line  
Control W scroll down one line  
Control C scroll up one half screen  
Control R scroll down one half screen

## NOTE:

The scrolling of one half screen can be changed to a full screen by changing one byte in the common table. Run the EDTKEY.COM program to make the change.

**TAB****TAB**

**FUNCTION:** To move the cursor to the next tab stop.

**COMMAND:**

**TAB or Control I**

**DESCRIPTION:**

This command moves the cursor to the first tab stop to the right of the present cursor position, or to the first character position in the line, if there are no tab stops to the right of the cursor. Tab stops are set and cleared by means of the TS command (one of the "extended commands" described later).

**NOTE:**

During the initial configuration procedure the default tab stops are established by the user. If you will be writing NEVADA COBOL programs you may want to set the tab stops at col 6, 10, 12, 14, 16, etc., or if you prefer the ANSI-74 COBOL tab stops, they are 8, 12, 14, 16, etc.

**STRING SEARCH****STRING SEARCH**

**FUNCTION:** To search the file for occurrences of a string of characters.

**COMMAND:**

Control F

**DESCRIPTION:**

When this command is given, the screen is cleared and a colon (:) appears. At this point the editor expects to receive an input line consisting of one to thirty-nine characters and a carriage return. The input line becomes the search string. Any occurrence of the string, regardless what characters precede or follow it, will be recognized as a match. Therefore, it is unnecessary to enter more characters than are required to define the text uniquely, i.e., "the qu" can be used to locate a line containing "the quick brown fox."

After accepting the input string, the editor searches the file, beginning at the first line of the file and ending at a matching string or the end of the file, whichever is encountered first. Upon finding a matching string, the editor positions the line containing the match at the first line on the screen. If no match is found before the end of the file, the first screenful of lines of the file are displayed. If a match is found, the search may be continued to the next match of the same string; see the Control L command on the next page.

To search the entire file, type Control F, and enter the search string. If the Control L command is used to search from each string match to the next, all occurrences of the input string will eventually be found.

**NOTE:** This command is very useful for correcting errors in COBOL and other programs. If the compiler indicates an error at line number 1234, you could use the search command to locate and display that line number, and then make the correction.

## CONTINUE SEARCH

## CONTINUE SEARCH

FUNCTION: To continue a string search.

## COMMAND:

Control L

## DESCRIPTION:

After a string has been located with the Control F command, the Control L command may be used to search for the next occurrence of the same string. This command causes the editor to start searching with the first line below the current cursor line and continue until a matching string is found or until the end of file is reached. The Control L command may be given as often as is desired.

**INSERT CHARACTER****INSERT CHARACTER**

**FUNCTION:** To toggle the insert character mode switch  
(on-off-on...).

**COMMAND:**

Control V

**DESCRIPTION:**

Any input from the keyboard, other than an editor command, is placed in the file in one of two modes. These modes, normal and insert, are determined by the Control V command. Each entry of Control V changes the input mode, i.e., if insert mode is on when command is given, the command will turn it off.

When insert mode is OFF, as it is when the editor is loaded and whenever the cursor is moved to a new line, each input character is placed at the cursor location, and the cursor moves to the right one place. When insert mode is on, however, each character is inserted into the file at the cursor position, moving the character at that location, and any characters to the right of the cursor, one position to the right. If the line resulting from such an insertion is more than the number of columns on a screen line, all characters exceeding the line length are lost.



**DELETE CHARACTER****DELETE CHARACTER**

**FUNCTION:** To delete the character under the cursor.

**COMMAND:**

Control G

**DESCRIPTION:**

The delete character command removes the character at the current cursor position and moves each character to the right of the cursor one position left.

**INSERT LINE ABOVE****INSERT LINE ABOVE**

**FUNCTION:** To insert a line above the current cursor line.

**COMMAND:**

Control N

**DESCRIPTION:**

The line insert control moves the file down one line from the cursor, and inserts a new blank line at the old cursor position. The cursor is moved to the first character position of the new line. Use this command to insert a new line 'above' the current line.

## INSERT LINE BELOW

## INSERT LINE BELOW

FUNCTION: To insert a line below the current cursor line.

COMMAND:

RETURN or Control M

## DESCRIPTION:

Carriage return scrolls up one line and inserts a blank line in the file. The cursor is moved to the first character position of the new line. Use RETURN to insert a line 'below' the current cursor position. No characters on the current line are deleted.

This command is used most frequently, for example, when entering a NEVADA COBOL program. At the end of each statement you normally "hit" the return key (enter on some machines) to create the next line and position the cursor to the first position of the new line.

**SPLIT LINE****SPLIT LINE**

**FUNCTION:** To move the remainder of a line to a new line.

**COMMAND:**

Control \

**DESCRIPTION:**

This control moves the character at the cursor position and all characters in that line to the right of the cursor to a new line. After the characters have been moved, the cursor is placed at the first character position of the new line.

**DELETE LINE****DELETE LINE**

**FUNCTION:** To delete the current cursor line.

**COMMAND:**

Control Y

**DESCRIPTION:**

This control removes the current cursor line from the file.

**NOTE:**

Position the cursor anywhere on the line to be deleted by using the cursor control keys. Then type the Control Y keys and "behold" the line is gone and the text is scrolled up.

**BLANK REMAINING LINE****BLANK REMAINING LINE**

**FUNCTION:** To blank the remaining part of a line.

**COMMAND:**

Control T

**DESCRIPTION:**

This control deletes the character at the cursor position and all characters in that line to the right of the cursor (right truncation). After the characters have been deleted, the cursor is placed at the first character position of the following line.

**REPEAT****REPEAT**

**FUNCTION:** To repeat a command.

**COMMAND:**

Control \_ (underline)

**DESCRIPTION:**

This command has three parts: 1) the Control and \_ keys typed together, 2) the command to be repeated (a combination of Control and some other key), and 3) a character representing the number of times the command should be repeated. The three parts of the command should be entered in order, without blanks between them. Enter a carriage return only after the third item in the command.

During the execution of a Control \_ command, the cursor disappears from the screen. If you are editing a file and the cursor unexpectedly disappears, assume that you have given the command by accident, and enter a repeat command that will not affect the contents of your file, e.g., repeat the Control S command once.

The editor determines how many times a command will be repeated by considering the third item of the command with an ASCII bias of 30 Hexadecimal. Thus, the characters 1 through 9 are taken to represent the corresponding numerical values; to designate a numerical value greater than 9, type the character whose hexadecimal ASCII value is 30 greater than the number you want to represent.

**EXAMPLE:**

To delete 9 characters from the current cursor position, type the following line (without the intervening blanks):

Control \_ Control H 9 <CR>

EXIT - NORMAL

EXIT - NORMAL

FUNCTION: To exit from the editor.

COMMAND:

Control K

DESCRIPTION:

This command is the normal means of exit from the editor.

When the Control and K keys are typed simultaneously, the following information appears on the screen:

12345 DECIMAL COUNT                   ...byte count of file

OK TO WRITE TO "FILE-NAME"?

Type 'Y' to write to the to-file. If the command was entered accidentally or if the user wishes to write to another file the user can type 'N' and be asked:

ENTER NEW FILE NAME OR CR TO CONTINUE?

If a carriage return is typed the editor will return to the text area. The editor will re-display the file with the cursor and file position just as it was before the exit command was given.

If a to-file was specified, the contents of the text area is written to that file. If the named to-file does not exist on the disk, it is created with the specified type or .CBL, the default type. If the to-file parameter was omitted from the EDIT command, the from-file is updated with the edited material. (Remember that when you write to a file, you write over the previous contents of that file.)

After a file has been written, the question is asked:

OK TO QUIT (Y/N)?

Type 'Y' to return to CP/M. Typing 'N' will cause return to editor operation with re-display of the file.



## EXTENDED COMMANDS

## EXTENDED COMMANDS

FUNCTION: To make additional commands available.

COMMAND:

Control B

DESCRIPTION:

The function of the Control B command is really to make eleven other commands available. Three of these commands determine the function to be associated with Control U (until that function is altered by another Control B), one command determines the tab stops to be considered by Control I, and the other seven are direct commands. When the Control and V keys have been entered, the screen is cleared and a colon (:) appears. The user is expected to type the code for the desired function immediately after the colon.

## EXIT - ABORT

## EXIT - ABORT

FUNCTION: To abort an EDIT and return to CP/M.

## COMMAND:

Control B

:AB <CR>

## DESCRIPTION:

If the user does not wish to save the file in memory by writing it to the to-file, the Control B keys should be typed. After the colon (:) prompt is displayed on the screen, type AB and a carriage return. When this command is given, the question

ABORT?

appears on the screen. If the character 'Y' is typed in answer, control is passed back to CP/M and no file update occurs. The from-file still resides on disk, just as it did before the edit.

If the command was entered accidentally, the user can type another letter and return to the text area. The editor will re-display the file with the cursor and file position just as it was before the abort command was given.

## VARIABLE TAB

## VARIABLE TAB

FUNCTION: To set Control B for the TAB function.

COMMAND:

Control B

:TA <CR>

DESCRIPTION:

When Control U is set for the TAB function, the Control U command will expect one more keystroke to be typed in by the user. This value will be used to tab the cursor to the corresponding character position in the cursor line. To indicate a given character position, type the character whose ASCII value is 30 Hex greater than the value you want to represent. (The numbering of character positions starts at 1, so type 1 to place the cursor over the leftmost character in a line, or A = col 17, Z = col 42, d = col 52, p = col 64, z = col 74).

When the EDIT program is loaded, the Control U command is set to perform the tab function. If either block move or null mode has been set since the program was loaded, type TA or TAB (and an carriage return) after the colon. The file area will immediately be displayed again, with file and cursor positions just as they were when the Control and B keys were typed.

NOTE:

There are actually two TAB functions within the editor. The one above, and one that uses the TAB key or Control-I and tabs according to a table that is user changeable.

## BLOCK COPY

## BLOCK COPY

FUNCTION: To set Control U for the block copy function.

COMMAND:

Control B

:BC <CR>

## DESCRIPTION:

After Control B is typed and the colon (:) prompt is displayed on the screen, type BC and a carriage return to set the Control U command to copy blocks of text from one position to another within the file. The procedure for copying blocks is as follows:

- 1) If you have not turned on the block copy Control U option, do so now (as above).
- 2) Insert a new blank line above the first of text to be copied, and type the letter 'F' (first) in the FIRST character position of the new line.
- 3) Next insert a new blank line below the last line of text to be copied, and type the letter 'L' (last text to be moved), in the FIRST character position of the new line.
- 4) Now, go to the line location of the file where the block of text lines is to be copied, and insert a new blank line there. Type the letter 'I' (insert) in the FIRST character position of the new line.
- 5) Now type Control U

The block of lines inclosed within the 'F' and 'L' will be copied from its position in the file, and duplicated in the file at the text as the first (top) line of the screen. The 'F', 'L', and 'I' lines will be removed from the file.

**BLOCK MOVE****BLOCK MOVE**

**FUNCTION:** To set Control U for the block move function.

**COMMAND:**

Control B

:BM <CR>

**DESCRIPTION:**

After Control B is typed and the colon (:) prompt is displayed on the screen, type BM and a carriage return to set the Control U command to move blocks of text from one position to another within the file. The procedure for moving blocks is as follows:

- 1) If you have not turned on the block move Control U option, do so now (as above).
- 2) Insert a new blank line above the first of text to be moved, and type the letter 'F' (first) in the FIRST character position of the new line.
- 3) Next insert a new blank line below the last line of text to be moved, and type the letter 'L' (last text to be moved), in the FIRST character position of the new line.
- 4) Now, go to the line location of the file where the block of text lines is to be moved, and insert a new blank line there. Type the letter 'I' (insert) in the FIRST character position of the new line.
- 5) Now type Control U

The block of lines inclosed within the 'F' and 'L' will be removed from its old position in the file, and inserted into the file at the text as the first (top) line of the screen. The 'F', 'L', and 'I' lines will be removed from the file.

NO FUNCTION

NO FUNCTION

FUNCTION: To set Control U for no function.

COMMAND:

Control B

:NU <CR>

DESCRIPTION:

Typing this command in response to the Control B prompt will turn the Control U function off, i.e., Control U will have no effect if typed.

**FIRST LINE****FIRST LINE**

**FUNCTION:** To set the cursor to the first line of the file.

**COMMAND:**

Control B

:FL <CR>

**DESCRIPTION:**

The command causes the file to be displayed on the screen with the first line of the file at the top of the screen.

**LAST LINE****LAST LINE**

**FUNCTION:** To set the cursor to the last line of the file.

**COMMAND:**

Control B

:LL <CR>

**DESCRIPTION:**

This command causes the file to be displayed on the screen with the last line of the file at the bottom of the screen.



## START FILE

## START FILE

FUNCTION: To set the beginning of the file.

## COMMAND:

Control B

:ST <CR>

## DESCRIPTION:

This command deletes all text above the cursor line, so that the cursor line becomes the first line of the file. Follow these instructions carefully to use ST:

- 1) Position the cursor to the desired line.
- 2) Type Control B (colon prompt will appear).
- 3) Type ST and a carriage return. The file will be displayed with the new first line at the top of the screen.

All information above the cursor line will be lost if the file is written back onto the disk after this operation! If you have already given the ST command and decide you really do not want to have lost everything above the cursor, type the Control B keys and AB to abort the edit operation, and re-load the file with a new EDIT command. (If you abort EDIT in this manner, you will lose ALL alterations you have made in the file since you last loaded the EDIT program.)

END FILE

END FILE

FUNCTION: To set the end of the file.

COMMAND:

Control B

:EN <CR>

DESCRIPTION:

This command deletes the cursor line and all text below it.

- 1) Position the cursor to a line ONE LINE BELOW the line that you want at the end of the file.
- 2) Type Control B (colon prompt will appear).
- 3) Type EN and a carriage return. The last lines of the file will be displayed on the screen.

Just as with the ST command, the material that you delete with EN will no longer exist in the file when you write it back out to the disk.

NOTE: how to divide a larger file into smaller files

- 1) Enter the EDIT command, specifying the large file as the from-file and creating a new to-file.
- 2) Set the cursor in the middle of the file, enter the Control B command, and use EN so that only the first of the previous file remains in the file area.
- 3) Enter the Control K command and write the contents of the file area to the new to-file.
- 4) Enter the EDIT command, specifying the large file as the from-file and creating a second new to-file.
- 5) Set the cursor to the same position as in step 2, enter the Control B command, and use ST so that only the second half of the previous file remains in the file area.
- 6) Enter the Control K command and write the contents of the file area to the second new to-file.
- 7) Erase the large file using the CP/M ERA command.

**REPLACE PATTERN****REPLACE PATTERN**

**FUNCTION:** To search for and replace or delete text patterns within a file.

**COMMAND:**

Control B

:PA R[S] <CR>

:PA D[S] <CR>

**DESCRIPTION:**

This command allows the user to search for and replace or delete text patterns within a file.

There are variants of the pattern replacement command:

PA RS - Selective Pattern replacement

PA R - Pattern replacement

PA DS - Selective Pattern Deletion

PA D - Pattern Deletion

After either of the first two variants is typed, the pattern program will display:

**PATTERN:**

Type the pattern for which to search the file, and then type the RETURN key. The program will display:

**REPLACE:**

Type the replacement pattern, and then type the RETURN key.

The DELeTe key may be used to correct an error in the typing of a pattern.

Upon finding a pattern match in the file, the first form of the pattern command will display the line in which the match was made and position the cursor directly below the first character of the matched text. The user now has the option of allowing the replacement to occur on this line (type any character other than 'N') or leaving the line as it is (type the letter 'N'). Use this form if you are not sure whether to replace all occurrences of the pattern in the file. If you were to replace all occurrences of 'POP' with 'PUSH', and a line of the text contained the label 'POP1', the replacement of the character 'POP' would produce 'PUSH1'.

If the form PA R is used, all replacements will be made with no display of matched lines.

It is possible to replace a text string with a new string of a different character count. In this case, the file will be expanded or contracted as needed. This may take some time, for example; replacing all of the single spaces on this page with a single # sign would only take a second. But replacing all of the spaces with say, four # signs (####) would take somewhat longer, since each replacement would require moving the following file down three spaces for each replacement.

It is possible to overflow a line of text by replacing text patterns with new patterns of greater length. In this case, the pattern program displays the offending line and a message to the effect that overflow would occur if the replacement were made. The replacement is then not made. Type any key except the Control Q keys to continue the pattern replacement procedure. Type the Control Q keys to abort the pattern replacement procedure; then enter a carriage return to return to the text area.

At the completion of pattern replacement a message will be displayed giving the number of times the pattern was replaced. Enter a carriage return to return to the text area.

The other two forms of the command result in the deletion of the indicated pattern. PA D and PA DS are similar in operation to PA R and PA RS, respectively, except that the user is not asked to supply a replacement pattern, because no patterns are to be replaced.

At any time during the pattern replacement procedure the Control Q keys may be typed to abort the operation. All replacements made up to this point will remain, but no further replacements will be made.

## INSERT FILE

## INSERT FILE

FUNCTION: To insert an external file into the current file.

## COMMAND:

Control B

:IF <U:file-name.ext> <CR>

## DESCRIPTION:

If this command is typed after the colon prompt (:), the named file (an existing CP/M file with a legal filename where U: is the disk drive and (.ext) is the file extension) will be inserted into the file in memory. The insertion begins just BEFORE the current cursor position. The first line to be inserted pushes all characters on the right side of the cursor RIGHTWARD in the text area (as though that line had been inserted with the Control V command). All subsequent lines are inserted as a block, pushing the existing text downward; the file will expand to accommodate new lines (just as though they were entered from the keyboard), unless the insert operation would overflow the file area.

When the insertion is complete, the cursor is positioned on a blank line following the last line that was inserted.

File insertion can be stopped at any time by typing Control Q.

## TAB STOPS

## TAB STOPS

FUNCTION: To set or clear tab stops.

COMMAND:

Control B

:TS <CR>

## DESCRIPTION:

If this command is typed after the colon prompt (:), a row of digits appears on the next line, with the cursor flashing in the first character position, and inverse video or (.) periods indicating current tab stops. "Inverse video" means that on a screen that represents characters as black on a white background, a character at a tab stop will be white on a black background (and vice versa for the white-on-black setting of the screen).

To set or clear a tab, use cursor control keys or the corresponding control characters to move the cursor to the character position whose status is to be changed; then strike Control I or the TAB key. If that character position position was previously a tab stop, it will no longer be; if it was not a tab stop, it will be set. Control Y will clear all tabs. Use a carriage return to exit the tab setting mode.

To move the cursor to the next tab stop, give the Control I or TAB command in normal editing mode. If there are no tab stops set, or if no tab stops are set to the right of the cursor, the cursor will be moved to the first column of the current line.

## NOTE:

If you find that you frequently use tab settings that are different from the default tab settings, you can make a second version of the EDITor and then rename it. Have one for COBOL, one for FORTRAN, or the Assembler, etc.

## SECTION 4

## ERROR CODES AND MESSAGES

All of the editor messages are contained on a file named NVEDIT.ERR and can be changed by the user. For example, you may want to have your messages displayed in German, French or some other language.

```
0001  IS NON-EXISTENT.  CREATE (Y/N)?
0002  MEMORY ERROR IN FILE-AREA
      ADDRESS:
0003  EDIT D:SOURCE.TYP D:OUTFILE.TYP<CR>
      PLEASE CHECK AND TRY AGAIN
0004  EDIT ABORT
      LOAD EXCEEDS BUFFER SPACE
0005  EDIT ABORT...FILE ERROR
      AT ADDRESS
0006  ABORT?
0007  BYTES FREE
0008  FULL--TYPE CTRL Q
0009  OK TO WRITE TO
0010  *** EDITOR EXIT
0011  FILE COUNT
0012  FILE WILL OVERFLOW BUFFER
0013  PATTERNS CHANGED.
0014  LINE OVERFLOW OF
0015  BYTE(S) IN THIS LINE
0016  LINE NOT FOUND
0017  INPUT BUFFER OVERFLOW
0018  PATTERN
0019  REPLACE
0020  WHAT?
0021  MULTIPLE
0022  NO
0023  I BETWEEN F AND L
0024  L BEFORE F
0025  91 ERROR IN EXTENDING THE FILE
0026  92 END OF DISK DATA - DISK IS FULL
0027  93 FILE NOT OPEN
0028  94 NO MORE DIRECTORY SPACE - DISK IS FULL
0029  95 FILE CANNOT BE FOUND
0030  96 FILE ALREADY OPEN
0031  97 READING UNWRITTEN DATA
0032  C/R TO CONTINUE
0033  DECIMAL
```

## SECTION 5

## CONFIGURING AN UNKNOWN TERMINAL

In many cases you will find the terminal you are using listed for a simple choice. Also, most of the newer machines emulate one of the listed terminals. For example the KAYPRO II emulates the Lear-Seigler ADM-3A. Other frequently emulated terminals are the Lear-Seigler ADM-31 and the SOROC IQ-120. So if your machine is not listed try these emulations first.

Where the machine emulates a standard terminal but the screen size is different (24X80), you will have to patch the line and column size with DDT. For example, the Shuffleboard III (a board for the TRS-80) emulates the ADM-3A but expects a 16x64 screen. The user would select the ADM-3A terminal thus creating the program file EDIT.COM. This file would then be patched as follows:

```
A> DDT EDIT.COM      (go ahead and try it)
                    (here you will see 3 lines of information,
                      and then -)
-S131               (press RETURN after each line)
0131 18 10          (you type the 10)
0132 50 40          (you type the 40)
0133 00 .           (you type a period)
-                  (here type a ctrl-c)
```

```
A> SAVE 45 EDIT.COM
```

If the above procedures do apply in your case, you will be asked some questions about your terminal and this may be sufficient to get EDIT up and running. This is an example of one such interaction. In this case the responses are those for a Zenith Z-19 terminal and this method would normally not be required. For further customizing of special cases, the file NVEDIT.PRN provides additional information.

```
A>NVEDIT
```

```
NVEDIT VERSION 3.0 (0) CONFIGURING
COPYRIGHT (C) 1981, 1982 ELLIS COMPUTING, INC.
@ ANSI MODE TERMINAL
A ADVANTAGE
B APPLE COMPUTER, 40 COLUMN DISPLAY
C APPLE COMPUTER + VIDEX 80 COLUMN BOARD
D BEEHIVE 150 OR CROMENCO 3100
E COMMODORE 64
F FREEDOM 100
```



G HAZELTINE 1400 SERIES  
H HAZELTINE 1500 SERIES  
I HEATH H19/H89 OR ZENITH Z19/Z89  
J HEWLETT-PACKARD 2621

Type a single letter to select terminal.  
<Carriage Return> for more terminals

K IBM PERSONAL COMPUTER+ BABY BLUE CARD  
L INFOTON I-100  
M LEAR-SEIGLER ADM-3A  
N LEAR-SEIGLER ADM-31  
O MICROTERM ACT-IV  
P OSBORNE I  
Q PERKIN-ELMER 550 (BANTOM)  
R PROCESSOR TECHNOLOGY SOL OR VDM  
S SOROC IQ-120/140  
T SUPERBRAIN  
U TELEVIDEO 950  
V TRS-80, MOD II (P. & T. CP/M)  
W NONE OF THE ABOVE

Type a single letter to select terminal.  
<Carriage Return> for more terminals W

Enter 2 digits for number of lines  
in the display. 24

Enter 2 digits for number of characters  
per line. ('U' will restart entries.) 80

Enter M for memory-mapped display (bank 0 only), T for  
a serial-connected terminal. (M or T) T

Most terminals position the cursor from  
a sequence of characters as follows:

Lead characters, differing for  
different terminals.

The line number, sometimes offset

Sometimes separator characters

The column number, sometimes offset

Sometimes ending characters

On some terminals column is before line.

Does your terminal follow

this general pattern? (Y/N) Y

Enter no. of lead characters  
for cursor positioning. 2

Enter the first lead character  
in hex, e.g. '1B'. 1B

Enter the next lead character. 59

Enter the no. of line/col separator characters. 0

Enter the no. of ending characters. 0

Enter offset to be added to line value.  
Enter 2 hex characters,e.g. 20 20

Enter offset added to column value. 20

Is column entered before line? (Y/N) N

Following controls will speed editing.  
If control is not available, enter zero.

Enter no of characters to clear screen  
and home the cursor to upper left. 2  
Enter two hex characters for each. 1B45

Enter no. of characters to insert line  
above cursor position. 2  
Enter two hex characters for each. 1B4C

Enter the no. of characters to delete  
the cursor line. 2  
Enter two hex characters for each. 1B4D

-----  
Enter file type to be used  
as default (3 characters) CBL

Default tab stops are set for COBOL.  
Do you wish to change them? (Y/N) N

Configuring of EDIT.COM is complete.

EDIT.COM saved on the default drive.

### USER FEEDBACK ON CONFIGURING

Over the last several years, some customers have gotten back to us telling how they have configured their unique systems. We have not tested these procedures, but they may be of help to you. If you have additional information, please get back to us and it will be included in the READ-ME.TXT file and later in the next revision of this manual.

### VT101

The VT101 emulates the ANSI terminal except it does not have the insert line function. Thus, this feature must be

deleted by patching 00 in the insert line area. See NVEDIT.PRN for the exact location.

### CDC110

The CDC110 emulates the ADM-3A except that scrolling a line at a time overprints the last line. This is because a time delay is required after sending a line feed. See NVEDIT.PRN for the location of the time delay after line feed and put some number in there until the proper time delay is reached.

### EPSON

The Epson emulates the ADM-3A, however control-P may be intercepted by the hardware. Just reassign control-P to one of the free control keys.

### TRS-80

In order to enter a control key on the model 1, the customer must hold down the shift-key and the down-arrow key. The configuring process is as follows:

First, select the unknown terminal. The number of lines is 16. The number of characters per line is 64. The Memory Mapped display = M. The memory map address = 3C00. The scrolling port = 00. Then complete the other questions per your needs. At this point the file EDIT.COM will be created.

Next, use CP/M's DDT to patch the EDIT.COM file as follows:

```
A>DDT EDIT.COM <CR>
```

```
S432E <CR>
```

```
00 FF <CR>      (you type the FF for upper case only)
```

```
. <CR>          (you type a period)
```

Then type control-C (return to CP/M)

```
A> SAVE 45 EDIT.COM <CR>
```

### TRS-80 WITH MAPPER

The TRS-80 with the MAPPER emulates the SOROC IQ-120 except for the screen size which is 16x64 and the line feed at end of line must be activated. See NVEDIT.PRN for locations to patch.

### AMPEX DIALOG 80

The Amplex Dialog 80 emulates the ADM-3A.

**LOBO MAX 80**

The LOBO MAX 80 emulates the ADM-31.

**APPLI-CARD**

The Appli-card emulates the SOCOC IQ-120, except it has a 70 column screen that needs to be patched.

**WIZARD-80**

The Wizard-80 emulates the videx board.

**OSBORNE 1**

The Osborne 1 is on the menu, but you must use the setup program that comes with the osborne to set the line length to 128 and also set the arrow key to Word Star.

**XEROX 820**

The XEROX machines emulate either the ADM-3A or the ADM-31.

**KAYPRO**

The KAYPRO II emulates the ADM-3A. The arrow keys send the following codes. Left arrow = control-H, Down arrow = control-J, Up arrow = control-K, and the right arrow = control-L.

## SECTION 6

## CHANGING EDIT KEY FUNCTIONS

The following is a sample run of EDTKEY.COM, changing many of the keys used for EDIT functions. The first five functions using labeled keys were not changed.

A>EDTKEY

EDTKEY VERSION 1.3

FOR EACH EDITOR FUNCTION, YOU MAY CHANGE THE KEY WHICH CAUSES IT TO OCCUR. IF YOU WISH NO CHANGE, PRESS "RETURN". THERE ARE TWO METHODS: CTRL-KEY OR ESC FOLLOWED BY KEY. TO CAUSE A FUNCTION TO USE THE CONTROL KEY ALONG WITH KEY "B", PRESS ONLY "B". TO CAUSE A FUNCTION TO USE "ESC" FOLLOWED BY "B", PRESS THAT SEQUENCE. CODES 7FH AND ABOVE (8-BIT CODES) MAY BE USED ALSO.

DO NOT USE THE CTRL KEY UNLESS TO ABORT THE PROCESS. FOLLOW THE DIRECTIONS ABOVE FOR EACH FUNCTION LISTED.

INSERT NEXT LINE. NORMALLY M ("RETURN" OR "ENTER" KEY)  
MOVE CURSOR DOWN. NORMALLY J ("LINE FEED" KEY)  
MOVE CURSOR TO NEXT TAB STOP. NORMALLY I ("TAB" KEY)  
BACKSPACE ONE CHARACTER. NORMALLY H ("BACKSPACE" KEY)  
BACKSPACE AND ERASE A CHARACTER. NORMALLY "DELETE" KEY  
CURSOR UP ONE LINE. E  
CURSOR DOWN ONE LINE. X  
CURSOR LEFT ONE CHARACTER. S  
CURSOR RIGHT ONE CHARACTER. D  
INSERT CHARACTER MODE ON. V  
INSERT CHARACTER MODE OFF. V  
DELETE CHARACTER UNDER CURSOR. G  
DELETE LINE. Y  
DELETE FROM CURSOR TO END OF LINE. T  
CURSOR TO UPPER LEFT (HOME). Q  
SCROLL UP ONE LINE. Z  
SCROLL DOWN ONE LINE. W  
SCROLL UP HALF OR FULL SCREEN. C  
SCROLL DOWN HALF OR FULL SCREEN. R  
CURSOR TO MID SCREEN, COLUMN ONE. A  
INITIATE STRING SEARCH MODE. F  
CONTINUE SEARCH FOR STRING. L  
EXIT FROM EDITOR OR SEARCH MODE. K  
SCROLLING IS NORMALLY 1/2 SCREEN.  
DO YOU WANT IT TO BE FULL SCREEN? (Y/N) Y

CHANGES ARE NOW COMPLETE.

## TABLE OF ASCII CODES (Zero Parity)

Paper tape 1 2 3 . 4 5 6 7 P	Upper Octal	Octal	Decimal	Hex	Character	
. . . . .	0000	000	0	00	ctrl @	NUL
. . . . .	0004	001	1	01	ctrl A	SOH
. . . . .	0010	002	2	02	ctrl B	STX
. . . . .	0014	003	3	03	ctrl C	ETX
. . . . .	0020	004	4	04	ctrl D	EOT
. . . . .	0024	005	5	05	ctrl E	ENQ
. . . . .	0030	006	6	06	ctrl F	ACK
. . . . .	0034	007	7	07	ctrl G	BEL
. . . . .	0040	010	8	08	ctrl H	BS
. . . . .	0044	011	9	09	ctrl I	HT
. . . . .	0050	012	10	0A	ctrl J	LF
. . . . .	0054	013	11	0B	ctrl K	VT
. . . . .	0060	014	12	0C	ctrl L	FF
. . . . .	0064	015	13	0D	ctrl M	CR
. . . . .	0070	016	14	0E	ctrl N	SO
. . . . .	0074	017	15	0F	ctrl O	SI
. . . . .	0100	020	16	10	ctrl P	DLE
. . . . .	0104	021	17	11	ctrl Q	DC1
. . . . .	0110	022	18	12	ctrl R	DC2
. . . . .	0114	023	19	13	ctrl S	DC3
. . . . .	0120	024	20	14	ctrl T	DC4
. . . . .	0124	025	21	15	ctrl U	NAK
. . . . .	0130	026	22	16	ctrl V	SYN
. . . . .	0134	027	23	17	ctrl W	ETB
. . . . .	0140	030	24	18	ctrl X	CAN
. . . . .	0144	031	25	19	ctrl Y	EM
. . . . .	0150	032	26	1A	ctrl Z	SUB
. . . . .	0154	033	27	1B	ctrl [	ESC
. . . . .	0160	034	28	1C	ctrl \	FS
. . . . .	0164	035	29	1D	ctrl ]	GS
. . . . .	0170	036	30	1E	ctrl ^	RS
. . . . .	0174	037	31	1F	ctrl _	US
. . . . .	0200	040	32	20	Space	
. . . . .	0204	041	33	21	!	
. . . . .	0210	042	34	22	"	
. . . . .	0214	043	35	23	#	
. . . . .	0220	044	36	24	\$	
. . . . .	0224	045	37	25	%	
. . . . .	0230	046	38	26	&	
. . . . .	0234	047	39	27	'	
. . . . .	0240	050	40	28	(	
. . . . .	0244	051	41	29	)	
. . . . .	0250	052	42	2A	*	
. . . . .	0254	053	43	2B	+	
. . . . .	0260	054	44	2C	,	
. . . . .	0264	055	45	2D	-	
. . . . .	0270	056	46	2E	.	
. . . . .	0274	057	47	2F	/	
. . . . .	0300	060	48	30	0	
. . . . .	0304	061	49	31	1	
. . . . .	0310	062	50	32	2	
. . . . .	0314	063	51	33	3	
. . . . .	0320	064	52	34	4	
. . . . .	0324	065	53	35	5	
. . . . .	0330	066	54	36	6	
. . . . .	0334	067	55	37	7	
. . . . .	0340	070	56	38	8	
. . . . .	0344	071	57	39	9	
. . . . .	0350	072	58	3A	:	
. . . . .	0354	073	59	3B	;	
. . . . .	0360	074	60	3C	<	
. . . . .	0364	075	61	3D	=	
. . . . .	0370	076	62	3E	>	
. . . . .	0374	077	63	3F	?	

### TABLE OF ASCII CODES (Cont'd) (Zero Parity)

Paper tape 1 2 3 . 4 5 6 7 P	Upper Octal	Octal	Decimal	Hex	Character
• • • • •	0400	100	64	40	@
• • • • •	0404	101	65	41	A
• • • • •	0410	102	66	42	B
• • • • •	0414	103	67	43	C
• • • • •	0420	104	68	44	D
• • • • •	0424	105	69	45	E
• • • • •	0430	106	70	46	F
• • • • •	0434	107	71	47	G
• • • • •	0440	110	72	48	H
• • • • •	0444	111	73	49	I
• • • • •	0450	112	74	4A	J
• • • • •	0454	113	75	4B	K
• • • • •	0460	114	76	4C	L
• • • • •	0464	115	77	4D	M
• • • • •	0470	116	78	4E	N
• • • • •	0474	117	79	4F	O
• • • • •	0500	120	80	50	P
• • • • •	0504	121	81	51	Q
• • • • •	0510	122	82	52	R
• • • • •	0514	123	83	53	S
• • • • •	0520	124	84	54	T
• • • • •	0524	125	85	55	U
• • • • •	0530	126	86	56	V
• • • • •	0534	127	87	57	W
• • • • •	0540	130	88	58	X
• • • • •	0544	131	89	59	Y
• • • • •	0550	132	90	5A	Z
• • • • •	0554	133	91	5B	[
• • • • •	0560	134	92	5C	\
• • • • •	0564	135	93	5D	]
• • • • •	0570	136	94	5E	^
• • • • •	0574	137	95	5F	_
• • • • •	0600	140	96	60	
• • • • •	0604	141	97	61	a
• • • • •	0610	142	98	62	b
• • • • •	0614	143	99	63	c
• • • • •	0620	144	100	64	d
• • • • •	0624	145	101	65	e
• • • • •	0630	146	102	66	f
• • • • •	0634	147	103	67	g
• • • • •	0640	150	104	68	h
• • • • •	0644	151	105	69	i
• • • • •	0650	152	106	6A	j
• • • • •	0654	153	107	6B	k
• • • • •	0660	154	108	6C	l
• • • • •	0664	155	109	6D	m
• • • • •	0670	156	110	6E	n
• • • • •	0674	157	111	6F	o
• • • • •	0700	160	112	70	p
• • • • •	0704	161	113	71	q
• • • • •	0710	162	114	72	r
• • • • •	0714	163	115	73	s
• • • • •	0720	164	116	74	t
• • • • •	0724	165	117	75	u
• • • • •	0730	166	118	76	v
• • • • •	0734	167	119	77	w
• • • • •	0740	170	120	78	x
• • • • •	0744	171	121	79	y
• • • • •	0750	172	122	7A	z
• • • • •	0754	173	123	7B	{
• • • • •	0760	174	124	7C	
• • • • •	0764	175	125	7D	}
• • • • •	0770	176	126	7E	~
• • • • •	0774	177	127	7F	

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**A**

AMPEX DIALOG 80 49  
APPLE 9  
APPLI-CARD 50  
ASCII TABLE 52

**B**

BLANK REMAINING LINE 28  
BLOCK MOVE 35  
BLOCK COPY 34

**C**

CDC110 49  
CHANGING EDIT KEY FUNCTIONS 51  
CONFIGURING 8, 46, 48  
CONTINUE SEARCH 21  
CONTINUATION LINE 5  
CONTROL KEYS 14  
CONTROL CHARACTER 5  
CORRECTIONS AND SUGGESTIONS 56  
CP/M 5, 7, 10  
CREATE 10, 12  
CURSOR MID SCREEN 17  
CURSOR POSITIONING 15  
CURSOR HOME 16

**D**

DELETE LINE 27  
DELETE CHARACTER 23

**E**

EDIT.COM 6  
EDITOR COMMANDS 13  
EDTKEY.COM 6  
END FILE 40  
EPSON 49  
ERROR CODES AND MESSAGES 45  
EXECUTING EDIT 9  
EXIT - NORMAL 30  
EXIT - ABORT 32  
EXTENDED COMMANDS 31

**F**

FILE-TYPE 10  
FILES 6, 10  
FIRST LINE 37  
FROM-FILE 10  
FULL SCREEN 51

**G**

GETTING STARTED 6

**H**

HARDWARE REQUIREMENTS 6

**I**

INSERT LINE BELOW 25  
INSERT CHARACTER 22  
INSERT LINE ABOVE 24  
INSERT FILE 43  
INTRODUCTION 5

**K**

KAYPRO II 46, 50

**L**

LAST LINE 38  
LEAR-SEIGLER ADM-31 46  
LEAR-SEIGLER ADM-3A 46  
LINES 5  
LOBO MAX 80 50

**M**

MEMORY USAGE 11

**N**

NO FUNCTION 36  
NVEDIT.PRN 6  
NVEDIT.ERR 45  
NVEDIT.ERR 6  
NVEDIT.COM 6

**O**

OPERATING PROCEDURES 6  
OSBORNE 1 50

**R**

READ-ME.TXT 6  
REPEAT 29  
REPLACE PATTERN 41

**S**

SCREEN SCROLLING 18, 51  
SHUFFLEBOARD III 46  
SOFTWARE REQUIREMENTS 6  
SOFTWARE LICENSE AGREEMENT 54  
SOROC IQ-120 9, 46  
SPLIT LINE 26  
STARTUP 10  
START FILE 39  
STRING SEARCH 20

**T**

TAB 19  
TAB STOPS 44  
TERMINATION 11

9-18-83

NEVADA EDIT

PAGE 59

TO-FILE 10

TRS-80 49

TRS-80 WITH MAPPER 49

U

UNIT 10

V

VARIABLE TAB 33

VIDEX 9

VT101 48

W

WIZARD-80 50

X

XEROX 820 50

**CONTROL KEYS:****PAGE**

<u>Control</u> E	- move the cursor up one line	15
<u>Control</u> X	- move the cursor down one line	15
<u>Control</u> S	- move the cursor left one character	15
<u>Control</u> D	- move the cursor right one character	15
<u>Control</u> I	- move cursor to next tab stop	19
<u>Control</u> Z	- scroll file up one line	18
<u>Control</u> W	- scroll file down one line	18
<u>Control</u> C	- scroll file up one half screen	18
<u>Control</u> R	- scroll file down one half screen	18
<u>Control</u> Q	- home cursor to line 1, column 1 also escape from FULL	16
<u>Control</u> A	- cursor to mid screen	17
<u>Control</u> V	- toggle insert character mode; ON/OFF	22
<u>Control</u> _	- repeat next command n times	29
<u>Control</u> G	- delete character under cursor	23
<u>Control</u> N	- insert line above cursor	24
<u>Control</u> Y	- delete line	27
<u>Control</u> /	- split line	26
<u>Control</u> T	- delete from cursor to end of line	28
<u>Control</u> F	- initiate string search mode	20
<u>Control</u> L	- continue search for string	21
<u>Control</u> B	- set TAB/BLOCK MOVE/NULL/LL/FL/ST EN/PA/IF/TS/AB	31
<u>Control</u> U	- execute TAB / BLOCK MOVE	31
<u>Control</u> K	- exit editor	30
<u>Control</u> M	- same as RETURN (below)	25

**OTHER KEYS:**

TAB	- move cursor to next tab stop ( <u>Control</u> I)	19
RETURN	- insert line below cursor ( <u>Control</u> M)	25

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