



Users' Reference Manual

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NEVADA EDIT

A TEXT EDITOR FOR CP/M

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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.

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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 | Drogram | |
|------------|----|-----|-------|--------|----------|--|
| | | | CCA C | CUILOI | 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:*.*[VO]

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.

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NEVADA EDIT

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 their 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 Copyright (C) 1981, 1982 Ellis Computing, Inc. @ 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 reasignment 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>

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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.

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. 9-18-83

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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 <u>Control</u> and Q keys simultaneously, the user should either shorten the file by removing text, or leave the editor by typing the <u>Control</u> 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 spliting 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. <u>Control</u> 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 <u>Control</u> 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 apear:

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). PAGE 14

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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 <u>Control</u> 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 - repeat next command n times (underline) Control 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 | Х |
| 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 Emove cursor up one lineControl Xmove cursor down one lineControl Smove cursor left one characterControl Dmove 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 <u>Control</u> 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.)

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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.

. .

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TAB

SCREEN SCROLLING

SCREEN SCROLLING

1. 1.

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.

| <u>Control</u> | Z | scroll | up one line |
|----------------|---|--------|----------------------|
| Control | W | scroll | down one line |
| Control | С | scroll | up one half garoon |
| 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

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.

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CONTINUE SEARCH

STRING SEARCH

STRING SEARCH

FUNCTION: To search the file for occurences 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 <u>Control</u> L command on the next page.

To search the entire file, type <u>Control</u> F, and enter the search string. If the <u>Control</u> 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

FUNCTION: To continue a string search.

COMMAND:

Control L

DESCRIPTION:

After a string has been located with the <u>Control</u> F command, the <u>Control</u> 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 <u>Control</u> L command may be given as often as is desired.

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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 <u>Control</u> V command. Each entry of <u>Control</u> 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.

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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.

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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 <u>Control</u> Y keys and "behold" the line is gone and the text is <u>scrolled</u> up.

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REPRAT

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

FUNCTION: To repeat a command.

COMMAND:

Control (underline)

DESCRIPTION:

This command has three parts: 1) the <u>Control</u> and <u>keys</u> typed together, 2) the command to be repeated (a combination of <u>Control</u> 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 <u>Control</u> command, the cursor disappears from the screen. If you are editing a file and the cursor unexpectedly disapears, 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>

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EXIT - NORMAL

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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 <u>Control</u> 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 or the file.

EXTENDED COMMANDS

EXTENDED COMMANDS

FUNCTION: To make additional commands available.

COMMAND:

Control B

DESCRIPTION:

The function of the <u>Control</u> B command is really to make eleven other commands available. Three of these commands determine the function to be associated with <u>Control</u> U (until that function is altered by another <u>Control</u> B), one command determines the tab stops to be considered by <u>Control</u> I, and the other seven are direct commands. When the <u>Control</u> 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. 9-18-83 NEVADA EDIT PAGE 32 9-18-83 NEVADA EDIT PAGE 33 EXIT - ABORT EXIT - ABORT VARIABLE TAB VARIABLE TAB FUNCTION: To abort an EDIT and return to CP/M. FUNCTION: To set Control B for the TAB function. COMMAND: COMMAND: Control B Control B :AB <CR> :TA <CR> DESCRIPTION: DESCRIPTION: If the user does not wish to save the file in memory by

writing it to the to-file, the <u>Control</u> 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. When the EDIT program is loaded, the <u>Control</u> 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 <u>Control</u> and B keys were typed.

When <u>Control</u> U is set for the TAB function, the <u>Control</u> 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).

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.

| 9-18-83 | NEVADA EDIT | PAGE 34 | 9-18-83 | NEVADA EDIT | PAGE 35 |
|---|--|--|--|--|---|
| BLOCK COPY | | BLOCK COPY | BLOCK MOVE | | BLOCK MOVE |
| FUNCTION: To set Cont | rol U for the block copy | function. | FUNCTION: To | set <u>Control</u> U for the block mo | ove function. |
| COMMAND: | | | COMMAND: | | |
| Contro | <u>1</u> B | | | Control B | |
| :BC <cr< td=""><th>></th><th></th><td></td><td>:BM <cr></cr></td><th></th></cr<> | > | | | :BM <cr></cr> | |
| DESCRIPTION: | | | DESCRIPTION: | | |
| After <u>Control</u> B is t displayed on the scr set the <u>Control</u> U comm position to another copying blocks is as f | typed and the colon (: een, type BC and a carri and to copy blocks of t within the file. The p ollows: | a) prompt is lage return to cext from one procedure for | After <u>Contro</u> displayed on set the <u>Contro</u> position to moving blocks | <u>l</u> B is typed and the colon the screen, type BM and a ca <u>ol</u> U command to move blocks o another within the file. Th is as follows: | (:) prompt is arriage return to f text from one e procedure for |
| If you have not option, do so now (as | turned on the block cog above). | py <u>Control</u> U | l) If you ha option, do so | ave not turned on the block now (as above). | move <u>Control</u> U |
| Insert a new blank copied, and type th character position of | line above the first o e letter 'F' (first) the new line. | of text to be in the FIRST | 2) Insert a r moved, and character posi | new blank line above the firs type the letter 'F' (first ition of the new line. | t of text to be) in the FIRST |
| Next insert a new to be copied, and typ moved), in the FIRST c | blank line below the last pe the letter 'L' (last haracter position of the | t line of text t text to be new line. | Next inser to be moved, moved), in the | rt a new blank line below the l and type the letter 'L' (l FIRST character position of t | last line of text ast text to be the new line. |
| 4) Now, go to the lin of text lines is to there. Type the lette position of the new li | e location of the file wh be copied, and insert a r r 'I' (insert) in the FIR ne. | nere the block new blank line RST character | Now, go to of text lines there. Type t position of th | o the line location of the file s is to be moved, and insert the letter 'I' (insert) in the ne new line. | where the block a new blank line FIRST character |
| 5) Now type Control U | | | 5) Now type | Control U | |
| The block of lines i copied from its positi file at the text as th 'F', 'L', and 'I' line | nclosed within the 'F' an on in the file, and dupl e first (top) line of the s will be removed from th | nd 'L' will be icated in the e screen. The ne file. | The block of removed from i the file at t The 'F', 'L', | lines inclosed within the 'F' its old position in the file, a the text as the first (top) lin and 'I' lines will be removed | and 'L' will be and inserted into he of the screen. from the file. |
| | | | | | |

NEVADA EDIT

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NEVADA EDIT

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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.

NO FUNCTION

30

NO FUNCTION

FUNCTION: To set Control U for no function.

COMMAND:

Control B

:NU <CR>

DESCRIPTION:

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

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|--|---|-----------------------------|---|---|---|---|
| LAST LINE | | LAST LINE | START FILE | | | START FILE |
| FUNCTION: To set | the cursor to the last line of | the file. | FUNCTION: | To set the begi | inning of the file. | |
| COMMAND: | | | COMMAND: | | | |
| Co | ontrol B | | | Control B | | |
| : LI | , <cr></cr> | | | :ST <cr></cr> | | |
| DESCRIPTION: | | 5 | DESCRIPTIO | N: | | |
| This command cau with the last line | ses the file to be displayed on s of the file at the bottom of | n the screen the screen. | This comma the cursor these inst | nd deletes all t line becomes th ructions careful | ext above the curso first line of the ly to use ST: | r line, so that file. Follow |
| | | - 1 | 1) Positi | on the cursor to | > the desired line. | |
| | | | 2) Type <u>C</u> | <u>ontrol</u> B (colon | prompt will appear) | • |
| | | | 3) Type displayed | ST and a carr with the new fir | iage return. The st line at the top | e file will be of the screen. |
| | | | All inform file is wr you have do not wan the <u>Contro</u> re-load th in this ma in the fil | mation above the itten back onto already given the to have lost end to have lost end AB file with a net file with a net file you will be since you last | the cursor line will the disk after this of ST command and de verything above th to abort the edit w EDIT command. (If lose ALL alterations t loaded the EDIT pr | be lost if the operation! If cide you really e cursor, type operation, and you abort EDIT you have made cogram.) |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

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|---|--|--|---|---|---|
| END FILE | | END FILE | REPLACE PATTERN | REPLAC | E PATTERN |
| FUNCTION: TO | set the end of the file. | | FUNCTION: To search within a file. | for and replace or delete tex | t patterns |
| COMMAND: DESCRIPTION: This command 1) Position that you want 2) Type Cont 3) Type EN file will be Just as with with EN will back out to t NOTE: how to 1) Enter the from-file and 2) Set the <u>Control B com</u> previous file 3) Enter the file area 4) Enter the from-file and 5) Set the co the <u>Control B</u> half of the p 6) Enter the | <u>Control</u> B :EN <cr> deletes the cursor line and all tex the cursor to a line ONE LINE BEL at the end of the file. <u>crol</u> B (colon prompt will appear). and a carriage return. The last displayed on the screen. the ST command, the material that no longer exist in the file when y the disk. divide a larger file into smaller EDIT command, specifying the larger creating a new to-file. <u>cursor in the middle of the file</u> mand, and use EN so that only the file remains in the file area. <u>Control K command and write the</u> <u>command, and use ST so that only</u> previous file remains in the file area <u>command, and use ST so that only</u> <u>control K command and write the</u> <u>control K command and write the</u></cr> | t below it. NoW the line lines of the t you delete you write it files files file as the , enter the first of the contents of e file as the contents of the second ca. contents of | COMMAND: COMMAND: PA R PA R PA D DESCRIPTION: This command allows f delete text patterns There are variants of PA RS - Select PA R - Patter PA DS - Select PA D - Patter After either of the s program will display PATTERN: Type the pattern for the RETURN key. The REPLACE: Type the replacement The DELete key may be of a pattern. Upon finding a patter the pattern command was made and position character of the may of allowing the replacement the letter 'N'). Use | <pre>rol B [S] <cr> [S] <cr> [S] <cr> [S] <cr> the user to search for and r within a file. f the pattern replacement comm ctive Pattern replacement ctive Pattern Deletion ern Deletion first two variants is typed, t ; which to search the file, and program will display: pattern, and then type the RE a used to correct an error in rn match in the file, the firs will display the line in which n the cursor directly below tched text. The user now has acement to occur on this line 'N') or leaving the line as i e this form if you are not sur trences of the pattern in the ell occurrences of 'DOP' with </cr></cr></cr></cr></pre> | eplace or and: he pattern then type TURN key. the typing of form of the match the first the option (type any t is (type e whether file. If |
| 7) Erase the | large file using the CP/M ERA comma | and. | you were to replace a and a line of the replacement of the c | all occurrences of 'POP' wit text contained the label 'P haracter 'POP' would produce ' | n 'PUSH', OPI', the PUSH1'. |
| | | 1. X. L. H. | | | |

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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 <u>Control V</u> 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.

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 <u>Control</u> Q keys to continue the pattern replacement procedure. Type the <u>Control</u> 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 <u>Control</u> 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.

TAB STOPS

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TAB STOPS

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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.

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

COMMAND:

Control B

FUNCTION: To set or clear tab stops.

: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.

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

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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

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 EDI | T.COM | (go ahead and | try it) |
|----|---------|-----------|-----------------|------------------|
| | (h | ere you w | ill see 3 lines | of information, |
| | a | nd then - |) | |
| | -5131 | *. | (press RETURN | after each line) |
| | 0131 18 | 10 | (you type the | 10) |
| | 0132 50 | 40 | (you type the | 40) |
| | 0133 00 | • | (you type a pe | eriod) |
| | - | | (here type a d | 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

| 9-18-83 | IEVADA EDIT | PAGE 48 | 9-18-83 | NEVADA EDIT | PAGE 49 | | | |
|--|---|---|--|--|--|--|--|--|
| Enter the no. of line/col characters. 0 | separator | | deleted by pat NVEDIT.PRN for t | ching 00 in the insert l: he exact location. | ne area. See | | | |
| Enter the no. of ending o | characters. 0 | | CDC110 | | | | | |
| Enter offset to be added Enter 2 hex characters, | to line value. .e.g. 20 20 | | The CDC110 emula | tes the ADM-3A except that sc rints the last line. This is | rolling a line | | | |
| Enter offset added to col | umn value. 20 | | delay is require for the locatio | d after sending a line feed. on of the time delay after li | See NVEDIT.PRN | | | |
| Is column entered before | line? (Y/N) N | | some number in t | here until the proper time de | lay is reached. | | | |
| Following controls will s If control is not availab | speed editing. Dle, enter zero. | | EPSON | | | | | |
| Enter no of characters to and home the cursor to ug Enter two hex characters | o clear screen oper left. 2 for each. 1B45 | | The epson emulat intercepted by t of the free cont | tes the ADM-3A, however con he hardware. Just reassign c rol keys. | trol-P many be ontrol-P to one | | | |
| Enter no. of characters t above cursor position. 2 Enter two hey characters | to insert line | | TRS-80 | | | | | |
| Enter the no. of characters the cursor line. 2 | ers to delete | | In order to ente must hold down configuring proc | r a control key on the model the shift-key and the down- ess is as follows: | l, the customer arrow key. The | | | |
| Enter file type to be use as default (3 characters) Default tab stops are set | CBL | | First, select the unknown terminal. The number of lines in 16. The number of characters per line is 64. The Memorr 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. | | | | | |
| Do you wish to change the | em? (Y/N) N | | Next, use CP/M's | DDT to patch the EDIT.COM fi | le as follows: | | | |
| EDIT.COM saved on the def | s complete. | | A>DDT EDIT.COM S432E <cr></cr> | <cr></cr> | | | | |
| USER FEET | BACK ON CONFIGURING | | 00 FF <c . <cr> Then type contro A> SAVE 45 EDIT.</cr></c | <pre>R> (you type the FF for upp (you type a period) 1-C (return to CP/M) COM <cr></cr></pre> | er case only) | | | |
| Over the last several yea to us telling how they ha We have not tested these to you. If you have addi to us and it will be in later in the next revisio | ers, some customers hav we configured their un procedures, but they m tional information, pl cluded in the READ-ME n of this manual. | e gotten back lique systems. ay be of help ease get back C.TXT file and | TRS-80 WITH MAPP The TRS-80 with for the screen s of line must be patch. | ER the MAPPER emulate the SORO ize which is 16x64 and the 1i activated. See NVEDIT.PRN f | C IQ-120 except ne feed at end or locations to | | | |
| VT101 | | | AMPEX DIALOG 80 | | | | | |
| The MILL emulated the AN | CT torminal organt it | Jeen not have | | | | | | |

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

The Ampex Dialog 80 emulates the ADM-3A.

NEVADA EDIT

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 BDIT 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 (Cont'd) (Zero Parity)

A B C

at a straight

D E

.

transfer when a subu v v

TABLE OF ASCII CODES (Zero Parity)

| Paper tape | Upper Octal | Octal | Decimal | Hex | Charact | er | |
|------------|-------------|-------|---------|-----|---------|------|-------------------------|
| 123.4567P | 1 0000 | 000 | | | | | |
| | 0000 | 000 | 0 | 00 | ctri @ | NUL | 6 f 11 - 11 |
| | 0004 | 001 | 1 | 01 | CTT A | SOH | Start of Heading |
| | 0014 | 002 | 2 | 02 | | FTY | Surt of Text |
| •. | 0020 | 004 | 4 | 04 | ctrl D | FOT | End of Ymit |
| | 0024 | 005 | 5 | 05 | ctrl E | ENO | End of Ann |
| | 0030 | 006 | 6 | 06 | ctrl F | ACK | Acknowledge |
| | 0034 | 007 | 7 | 07 | ctrl G | BEL | Audible Signal |
| .• | 0040 | 010 | 8 | 08 | ctrl H | BS | Back Space |
| • .• | 0044 | 011 | 9 | 09 | ctrl I | HT | Horizontal Tab |
| • .• | 0050 | 012 | 10 | 0A | ctrl J | LF | Line Feed |
| | 0054 | 013 | 11 | OB | ctrl K | VT | Vertical Tab |
| •.• | 0060 | 014 | 12 | 0C | ctrl L | FF | Form Feed |
| • •.• | 0064 | 015 | 13 | 0D | ctrì M | CR | Carriage Return |
| | 0070 | 016 | 14 | 0E | ctrl N | SO | Shift Out |
| | 0074 | 017 | 15 | OF | ctrl O | SI | Shift In |
| | 0100 | 020 | 16 | 10 | ctrl P | DLE | Data Line Escape |
| | 0104 | 021 | 17 | 11 | ctrl Q | DCI | X On |
| | 0110 | 022 | 10 | 12 | CUL K | DC2 | Aux On |
| | 0114 | 023 | 20 | 13 | | DC4 | A UII |
| | 0124 | 025 | 21 | 15 | ctrl II | NAK | Negative Asknowled- |
| | 0130 | 026 | 22 | 16 | ctrl V | SYN | Synchronous File |
| | 0134 | 027 | 23 | 17 | ctrl W | ETR | End of Xmit Block |
| | 0140 | 030 | 24 | 18 | ctrl X | CAN | Cancel |
| | 0144 | 031 | 25 | 19 | ctrl Y | EM | End of Medium |
| • .•• 6 | 0150 | 032 | 26 | 1A | ctrl Z | SUB | Substitute |
| | 0154 | 033 | 27 | 1B | ctrl [| ESC | Escape |
| | 0160 | 034 | 28 | 1C | ctrl \ | FS | File Separator |
| | 0164 | 035 | . 29 | 1D | ctrl] | CS | Group Separator |
| | 0170 | 036 | 30 | 1E | ctrl ^ | RS | Record Separator |
| | 0174 | 037 | 31 | IF | ctrl _ | US | Unit Separator |
| | 0200 | 040 | 32 | 20 | Space | | |
| | 0204 | 041 | 33 | 21 | 1 | | |
| | 0210 | 042 | 34 | 22 | | | |
| | 0214 | 044 | 35 | 23 | e e | | 0 |
| | 0224 | 045 | 37 | 25 | 4 64 | | |
| | 0230 | 046 | 38 | 26 | ۶. | 14 | |
| | 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 | - 8 | | |
| | 0270 | 050 | 40 | 2E | ; | | |
| | 02/4 | 057 | 41 | 21 | / | | |
| | 0304 | 061 | 40 | 30 | 1 | 1.00 | |
| | 0310 | 062 | 50 | 32 | 2 | | |
| | 0314 | 063 | 50 | 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 | | 100 |
| | 0350 | 072 | 58 | 3A | : | | |
| | 0354 | 073 | 59 | 3B | ; | | |
| •.••• | 0360 | 074 | 60 | 3C | < | | |
| | 0364 | 075 | 61 | 3D | = | | |
| | 0370 | 076 | 62 | 3E | > | | |
| | 0374 | 077 | 63 | 3F | 1 | | |

| | Paper tape | Upper Octal | Octal | Decimal | Hex • | Character |
|--|--------------------------------------|-------------|-------|----------|-----------------|-----------|
| | 123.450/P | 0400 | 100 | 64 | 40 | 6 |
| 1.4 | 10 M.A. | 0404 | 100 | 65 | 41 | 8 |
| | | 0410 | 102 | 66 | 49 | 2 |
| | | 0410 | 102 | 67 | 42 | ĉ |
| | | 0414 | 103 | 60 | 40 | D |
| | | 0420 | 104 | 00 | 99 | D |
| 10 C 10 C | | 0424 | 105 | 09 | 45 | 5 |
| 1. | ••. • | 0430 | 100 | 70 | 40 | F |
| | •••. • | 0434 | 107 | /1 | 41 | G |
| 1 | .•• | 0440 | 110 | 72 | 48 | н |
| | • .• • | 0444 | 111 | 73 | 49 | 1 |
| 276 77 2 3 | 51 0 (1 20 1) 0 | 0450 | 112 | 74 | 4A - | J |
| (3) 5.1869 2 | | 0454 | 113 | 75 | 4B | K |
| 100 E | 1 | 0460 | 114 | 76 | 4C | L |
| | | 0464 | 115 | 77 | 4D | M |
| and a second state | | 0470 | 116 | 78 | 4E | N |
| | | 0474 | 117 | 79 | 4F | 0 |
| | . • • | 0500 | 120 | 80 | 50 | P |
| | | 0504 | 121 | 81 | 51 | Q |
| | | 0510 | 122 | 82 | 52 | R |
| | | 0514 | 123 | 83 | 53 | S |
| | | 0520 | 124 | 84 | 54 | т |
| A. 1.17,0415 | | 0524 | 125 | 85 | 55 | U |
| i | | 0530 | 126 | 86 | 56 | v |
| i | | 0534 | 127 | 87 | 57 | W |
| · · · · · · · · · · · · · · · · · · · | | 0540 | 130 | 88 | 58 | X |
| | | 0544 | 131 | 89 | 59 | Y |
| | | 0550 | 132 | 90 | 54 | 2. |
| C (1) < K | | 0554 | 133 | 01 | SB | ī |
| | | 0560 | 134 | 02 | 50 | N. |
| | | 0564 | 135 | 03 | 50 | ì |
| | | 0570 | 136 | 04 | SE | ~ |
| | | 0574 | 130 | 05 | SE | |
| N | | 0600 | 140 | 93 06 | 51 ⁻ | - |
| | | 0604 | 140 | 90 | 61 | <u> </u> |
| 4 3 4 4 | | 0610 | 141 | 97 | 60 | a L |
| | | 0610 | 142 | 90 | 02 | D |
| | | 0014 | 143 | 99 | 03 | C |
| 1 - C | | 0020 | 144 | 100 | .04 | a |
| | | 0024 | 145 | 101 | 60 | e |
| | | 0030 | 140 | 102 | 00 | |
| | | 0034 | 14/ | 103 | 0/ | g |
| | | 0640 | 150 | 104 | 68 | n |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 0044 | 151 | 105 | 69 | 1 |
| 51 31 March | • .• •• | 0650 | 152 | 106 | 6A | 3 |
| - | | 0654 | 153 | 107 | 68 | k |
| | •.• •• | 0660 | 154 | 108 | 6C | 1 |
| 1 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - | | 0664 | 155 | 109 | 6D | m |
| 2 书 2 時間間 9 | | 0670 | 156 | 110 | 6E | n |
| · · · · · | | 0674 | 157 | 111 | 6F | 0 |
| _ | | 0700 | 160 | 112 | 70 | P |
| | | 0704 | 161 | 113 | 71 | q |
| | | 0710 | 162 | 114 | 72 | r |
| | | 0714 | 163 | 115 | 73 | s |
| 1 . J . T | | 0720 | 164 | 116 | 74 | t |
| 1 | | 0724 | 165 | 117 | 75 | u |
| | | 0730 | 166 | 118 | .76 | v |
| | | 0734 | 167 | 119 | 77 | W |
| 9 1 1 40 s | | 0740 | 170 | 120 | 78 | x |
| Ì | | 0744 | 171 | 121 | 79 | у |
| abr. ma | | 0750 | 172 | 122 | 7.4 | Z |
| Sen to a | | 0754 | 173 | 123 | 7B | 1. |
| | | 0760 | 174 | 124 | 70 | 1 |
| 12 The 6 | | 0764 | 175 | 125 | 70 | 1 |
| | | | | | | |

0770

0774 177

176

126

127

7E

7F

Prefix DEL Rubout

1 17 21 m

-

NEVADA EDIT

NEVADA EDIT

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CORRECTIONS AND SUGGESTIONS

All suggestions and problems must be reported in writing. Please include samples if possible.

EDIT VERSION () SERIAL #_____

Operating system and version

Hardware configuration _____

ERRORS IN MANUAL:

SUGGESTIONS FOR IMPROVEMENTS TO MANUAL:

ERRORS IN EDITOR:

SUGGESTIONS FOR IMPROVEMENT TO EDITOR:

Ellis Computing, Inc. MAIL TO: 3917 Noriega Street San Francisco, CA 94122

NAME_____ DATE____ FROM:

ADDRESS_____

CITY, STATE, ZIP_____

PHONE NUMBER_____

If you wish a reply include a self-addressed postage-paid envelope. Thank you.

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CONTROL KEYS:

| Control | E | - move the cursor up one line | 15 |
|---------|---|--|----|
| Control | Х | - move the cursor down one line | 15 |
| Control | S | - move the cursor left one character | 15 |
| Control | D | - move the cursor right one character | 15 |
| Control | I | - move cursor to next tab stop | 19 |
| Control | Z | - scroll file up one line | 18 |
| Control | W | - scroll file down one line | 18 |
| Control | C | - scroll file up one half screen | 18 |
| Control | R | - scroll file down one half screen | 18 |
| Control | 0 | - home cursor to line 1, column 1 | 16 |
| | - | also escape from FULL | |
| Control | A | - cursor to mid screen | 17 |
| Control | V | - toggle insert character mode; ON/OFF | 22 |
| Control | | - repeat next command n times | 29 |
| Control | G | - delete character under cursor | 23 |
| Control | N | insert line above cursor | 24 |
| Control | Y | - delete line | 27 |
| Control | 1 | - split line | 26 |
| Control | T | - delete from cursor to end of line | 28 |
| Control | F | - initiate string search mode | 20 |
| Control | L | - continue search for string | 21 |
| Control | B | - set TAB/BLOCK MOVE/NULL/LL/FL/ST | 31 |
| | | EN/PA/IF/TS/AB | |
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| Control | K | - exit editor | 30 |
| Control | M | - same as RETURN (below) | 25 |
| | | and manufacture second subject of the second s | |

OTHER KEYS:

| TAB | - move cursor to next tab stop (Control I) |) 19 |
|--------|--|------|
| RETURN | - insert line below cursor (Control M) | 25 |

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| The CP/M* Operating System and 32K RAM are required. | m, a 8080/8085/ Z80 microprocessor, |
| Software Packages: | |
| COBOL DFORTRAN | PILOT DEDIT DASIC |
| 5%" Apple CP/M Xer 5%" Apple CP/M Xer Televideo Micropolia North Star DD North TRS-80 Mod I with CP/M @ Heath Hard (780) | (Standard IBM 3740 format) rox 820 SD |
| Superbrain DD DOS 3.X (51 Kaypro DD DC DEC VT-1 NEC PC 8001 Sanyo | 12 Byte sectors) 80 Epson QX-10 Access |
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