

This product is compatible with: TEKDOS VERSION 3.X



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# Section 1

# LEARNING GUIDE

This Learning Guide provides a general overview of the new TEKDOS Editor version 3.X, shows you how to install the editor on your system, and offers you a simple demonstration for hands-on experience. When you are finished with this Learning Guide, you should be able to do simple editing and be ready to learn more about the editor by reading other sections of the manual.

This Learning Guide is divided into the following topics:

- Editor Overview. An explanation of the editor and its general features.
- Installation Instructions. Step-by-step instructions for installing the new editor on your TEKDOS system disc.
- Demonstration Run. How to invoke the editor, enter text, save the text in a file, and reedit an old file.
- For Continued Learning. A guide to using other parts of this manual to learn more about the editor.

# EDITOR OVERVIEW

## Uses of the Editor

The text editor is an important programming tool. It is useful whenever text must be created or modified. You can use the editor to enter and debug source programs, to prepare command files and data files, and to create documents. Figure 1-1 is a diagram of typical work flow, showing suitable editor tasks.



Fig. 1-1. The role of the editor in programming..

The editor is used to create and modify source programs, data files, and documentation. TEKDOS command files and editor command files may also be created with the editor.

#### **General Features**

The TEKDOS Editor V3.X is line-oriented: most editor commands operate on a single line of text. The editor accepts a command line, executes it, and prompts for another command line. Because the editor is not screen-oriented, it can be used on hard-copy terminals as well as on CRTs.

Here are some of the features of the TEKDOS Editor V3.X:

- Text lines can be entered from the keyboard or brought in from disc files.
- Tab stops can be used to align columns of text.
- Text may be stored on disc with tab characters unexpanded.
- Text may contain control characters.
- Strings of characters can be found and modified.
- Blocks of text can be moved or repeated within the file.
- A text line can be referenced either by its number or by its position relative to the workspace pointer. Text can be displayed with or without line numbers.
- A command sequence can be repeated a specified number of times, or until a command within the sequence fails.
- Frequently used command sequences can be stored in command files or command macros and executed as they are needed.
- Entire editing sessions can be performed by command files without operator intervention.
- Files that exceed the size of the editor workspace can be edited conveniently in sections.
- The editor workspace may occupy up to 55K bytes of memory.
- Error messages tell not only what went wrong, but which command or parameter caused the error.
- Several editor features can be turned on or off to suit the needs of the current editing session.

#### The Workspace

The TEKDOS Editor program uses 9K bytes of 8002A memory. The remaing program memory is available for the workspace buffer. When the 8002A contains four memory modules (64K bytes), 55K bytes are available for the workspace. This translates to about 1400 lines of text averaging 40 characters each. With two modules (32K bytes) of memory, 23K bytes are available for the workspace. The text being edited is stored in the workspace. A pointer in the workspace designates one of the lines of text in the workspace as the current line. Most of the editor commands execute relative to that workspace pointer. If there is no text in the workspace, the workspace pointer points to the end-of-text marker.

## INSTALLING THE NEW EDITOR

The new TEKDOS Editor V3.X program is on the editor installation disc. To use the new editor, you must transfer it to the TEKDOS system disc, where it replaces the obsolete editor program.

#### **Equipment Needed**

- 8002A uProcessor Lab
- TEKDOS system disc
- Editor installation disc
- Two blank discs that have been formatted and verified with the TEKDOS commands FORMAT and VERIFY. For details about these commands, refer to the Command Dictionary section of the 8002A System Users Manual.

CAUTION

If this editor installation procedure is terminated for any reason before the procedure is finished, the software on the discs may be destroyed. Make copies of both the TEKDOS system disc and the editor installation disc before you attempt to install the new editor. Use the two blank discs for this purpose.

#### **Installation Procedure**

This procedure uses the following conventions:

- Underlined text in the examples indicates what you enter from the terminal.
- Text not underlined is the system response displayed on the terminal.
- The symbol <CR> indicates a carriage return that you enter from the terminal.
- 1. Make a Backup Copy of Your TEKDOS System Disc. Load your system disc into drive 0. When the TEKDOS prompt (>) appears, load one of the blank formatted discs into drive 1. Then enter the following TEKDOS command line:

> DUP 0 1<CR>

TEKDOS takes approximately 15 to 25 minutes to duplicate your system disc onto the blank disc. When the prompt (>) appears, remove the original system disc from drive 0. By using the duplicate disc, your valuable system disc is protected from harm. Remove the duplicate system disc from drive 1 and insert it into drive 0. All further references in this section to the "system disc" will refer to the copy you have just made.

2. Make a Backup Copy of the Editor Installation Disc. This special procedure must be followed carefully so that the new system disc will not be harmed. Make sure that you have the system disc in drive 0 and that drive 1 is empty. Enter the following command line:

> DUP<CR> \*DUP\* ERROR 09 \*DUP\* EOJ

TEKDOS indicates an error at this point because no drive numbers were specified. However, software essential to the rest of this procedure was copied from the system disc into the 8002A system memory. Ignore the error, and remove the system disc from drive 0. Load the editor installation disc into drive 0, and the remaining blank formatted disc into drive 1. Then enter the following command line:

> DUP 0 1<CR>

TEKDOS takes approximately 2 minutes to copy the editor installation disc. When the prompt appears, remove the original editor installation disc from drive 0 and store it for backup. All further references in this procedure to the "editor installation disc" will refer to the copy you have just made.

3. Install the New Editor on the System Disc. Load the new TEKDOS system disc into drive 0, and enter the following command line:

> INSTALL/1<CR>

The INSTALL command file takes approximately 30 minutes to transfer the new editor to the system disc. The following messages will appear on the terminal as the job progresses:

```
* PLEASE DO NOT INTERRUPT THE INSTALLATION AS IT MAY DESTROY
YOUR DISC.
* HAVE YOU BACKED UP YOUR SYSTEM DISC ??
FILL 0000, 4000, -00 3FFF, 0000
FETCH TEKDOS/0
PATCH 3956 COCOCOD2
PATCH 39BB COCOCO 39BA 39COCOCO
MODULE TEKDOS/0, 80, 3FFF, 100
*MODULE* EOJ
REPLACE EDITOR/1, /0, 27, /1
Member 01 copied from System Overlay File.
Member 02 copied from System Overlay File.
*REPLACE* EOJ
COPY /1, /0
*COPY* ÉOJ
DEL /1
*DELETE* EOJ
* DONE, PLEASE REBOOT THE SYSTEM.
INSTALL/1 COMPLETED
```

4. **Reboot the 8002A.** The SYSTEM RESTART switch is located on the right side of the 8002A front panel. Flip this switch upward. In a few seconds the terminal will display the TEKDOS greeting (a bell, the software version identifier, and the prompt). You may now use the EDIT command to invoke the new editor (or you may use any other TEKDOS command).

If your system does not restart properly, you may have a faulty disc or an installation problem. Consult your 8001/8002A Installation Guide or your service representative for possible solutions.

### **DEMONSTRATION RUN**

In this demonstration run, you use the editor to create and modify a file named TIGERS.

#### Create a Text File

To invoke the editor and create the new file, enter the following command:

```
> EDIT TIGERS<CR>
```

TEKDOS invokes the editor, creates a new file named TIGERS on the system disc, and sends the following message to the terminal:

```
** EDIT VER 3.0
** NEW FILE
```

If the message \*\* NEW FILE does not appear, the file TIGERS already exists on the disc. If you want to keep the existing TIGERS file, enter the editor command QUIT to exit the editor without harming the file. Then reinvoke the editor, using a new file name. If the file TIGERS already exists and you continue with this example, the previous contents of TIGERS will be lost.

The editor prompt character is the single asterisk (\*). The asterisk prompt indicate that the editor is ready to accept an editor command.

#### How to Correct Input Mistakes

Before you begin to input text, you need to know how to correct your mistakes on the input line. You may correct only the line you are currently entering. Once you have entered a carriage return to end the line, no other corrections may be made to that line while the editor is in input mode.

To Correct Characters One-By-One:.

- The BACKSPACE key on a refresh CRT terminal cancels the current character in the input buffer, erases it from the screen, and moves the cursor one space to the left. This may be repeated as many times as necessary.
- The DELETE key on a hard copy terminal cancels the current character in the input buffer and prints the deleted character. This may be repeated as many times as necessary.
- The RUBOUT key cancels the current character in the workspace and either moves the cursor one space to the left (default setting) or echoes the character on the screen, depending on the setting of the editor command CRT. This may be repeated as many times as necessary.

To Replace an Entire Line:.

 Press the escape (ESC) key once to delete the line. Then reenter the line from the beginning.

#### NOTE

If you accidentally press the escape key twice in succession, the editor will be suspended and control will return to TEKDOS. To notify you that this has occurred, a double TEKDOS prompt (>>) will be displayed on the terminal. To return to the editor enter the TEKDOS command **CONT** \*. You may then continue the editing session from the point where the double escape was entered.

To intentionally suspend the editor, please use the **SUSPEND** command rather than the escape key.

#### Set Tabs

For this example you use special tab settings to list items within your text. The editor has default tab settings in columns 8, 16, 24, 32, 40, 48, 56, and 64. For this example, the tabs are reset to columns 4, 8, and 20 before you enter the text. (The special tab settings are not saved between edit sessions, so you may want to enter a remark line in your text to remind you of their location.) The default tab character is control-I (sent by the tab key). Because control-I is not a printing character, it is difficult to edit if the need arises. This example shows how to use a substitute tab character that does print. The tab character may be any character you choose. However, be sure it is not a character you are using in the text. In this example the percent sign (%) is used. After the text is entered with percent signs for tab characters, the tab character definition will be changed from control-I to the percent sign to show how the tab characters are expanded to spaces. Enter the following command:

\*TABS 4 8 20<CR>

#### **Enter Text**

You are now ready to enter your text. The new file contains no lines as yet. Since the workspace is empty, the workspace pointer is located at the end-of-text marker. The text that you enter will be inserted before the workspace pointer. Multiple lines of text are entered in input mode.

The editor command INPUT is used for entering text. There is no prompt character in input mode. Enter each new line immediately after the carriage return that terminates the previous line. A carriage return on an empty line terminates input mode.

When you enter the carriage return on the empty line, the editor exits from input mode and displays the asterisk prompt, indicating that you may enter the next editor command.

#### **Display Text**

After entering your text, you'll want to view it to see if it is correct. The editor command TYPE is used to display text. The TYPE command, without parameters, displays the current line only. To display all of the lines in the workspace, enter TYPE B-E. "B" stands for the beginning of the text in the workspace, while "E" stands for the end. Before you enter the TYPE command, change the tab character so you can view the expanded text.

\*TAB%<CR>

The TAB % command causes all percent signs in the text to be expanded to spaces to line up the text in the previously defined tab columns.

```
*TYPE B-E<CR>
WHY EVERY FAMILY SHOULD OWN A TIGER:

PROTECTION A FAMILY WITH A TIGER NEED NEVER
WORRY ABOUT BURGLARS, SALESMEN, OR
NEIGHBORHOOD DOGS.
AFFECTION A WELL-TRAINED TIGER IS VERY AFFECTIONATE
TO THE OWNER'S FAMILY.
ADMIRATION A TIGER IS THE ULTIMATE STATUS SYMBOL,
INSPIRING AWE AND ADMIRATION IN EVERYONE.
```

#### Save the Text on the Disc

Since the text you've displayed looks correct, go ahead and store it on the disc under the file name TIGERS which you specified when you invoked the editor. The editor command FILE saves the contents of the workspace in the disc file and exits from the editor.

```
*FILE<CR>
** END OF TEXT
*DOS* EOJ
```

```
>
```

The \*\* END OF TEXT message shows that all the text was written from the workspace to the file. The \*DOS\* EOJ message tells you that the editor mode has been terminated (End Of Job). The > prompt character tells you that TEKDOS is ready for the next TEKDOS command.

#### Modify a Disc File

Let's alter the text you have just created. (The text could have been changed before you stored it, but we'll begin a new editing session to illustrate certain editor commands.) Invoke the editor with the EDIT command:

>EDIT TIGERS<CR> \*\* EDIT VER 3.0 \*\*

Notice that the \*\* NEW FILE message does not appear here, since the file named TIGERS already exists. Although you've invoked the editor, the contents of the file TIGERS is not yet in the workspace. You can verify this by entering the TYPE command:

```
*TYPE B-E<CR>
** END OF TEXT
```

This shows that the workspace pointer is pointing to the end-of-text marker; there are no lines of text in the workspace.

#### Get Disc File Text into the Workspace

The editor command GET is used to transfer text from the disc file to the workspace. The GET command, without parameters, gets only the next line of the disc file. To transfer all the lines, enter the GET command with a parameter equal to or greater than the number of lines in the file. (In this case, 20 is large enough.)

The message \*\* EOF shows that the all of the text in the file TIGERS has been copied into the workspace. The text has been placed before the current line in the workspace. You can use the TYPE command to make sure the text is in the workspace.

```
*TYPE B-E<CR>
WHY EVERY FAMILY SHOULD OWN A TIGER:
%1.%PROTECTION%A FAMILY WITH A TIGER NEED NEVER
%%%WORRY ABOUT BURGLARS, SALESMEN, OR
%%%NEIGHBORHOOD DOGS.
%2.%AFFECTION%A WELL-TRAINED TIGER IS VERY AFFECTIONATE
%%%TO THE OWNER'S FAMILY.
%3.%ADMIRATION%A TIGER IS THE ULTIMATE STATUS SYMBOL,
%%%INSPIRING AWE AND ADMIRATION IN EVERYONE.
```

The text looks like it did when we entered it. If we want to see it in tab expansion form, the previous tab settings must be entered.

```
*TAB%<CR>
*TABS 4 8 20<CR>
*TYPE B-E<CR>
WHY EVERY FAMILY SHOULD OWN A TIGER:
   1. PROTECTION A FAMILY WITH A TIGER NEED NEVER
                   WORRY ABOUT BURGLARS, SALESMEN, OR
                   NEIGHBORHOOD DOGS.
      AFFECTION
   2.
                   A WELL-TRAINED TIGER IS VERY AFFECTIONATE
                   TO THE OWNER'S FAMILY.
   3.
       ADMIRATION
                  A TIGER IS THE ULTIMATE STATUS SYMBOL
                   INSPIRING AWE AND ADMIRATION IN EVERYONE.
¥
```

#### Move the Workspace Pointer

The position of the workspace pointer affects many of the editor commands. Searches are carried out from the workspace pointer to the end of the text. Any changes are made in the text of the current line, pointed to by the workspace pointer. Text is printed, displayed, or moved with reference to the workspace pointer.

The first place we'll change the text is in the first line. If every family owned a tiger, it would not be a status symbol. Therefore, lets change "every family" to "you". Move the workspace pointer to the first line of text with the BEGIN command:

```
*BEGIN<CR>
WHY EVERY FAMILY SHOULD OWN A TIGER
*
```

When the workspace pointer is moved, the new line that it points to is displayed.

#### Substitute Text

The editor command for substituting text is SUBSTITUTE. The command is followed by a delimiter (a character not found in either text string), the text to be replaced, a delimiter, the replacement text, and a delimiter. (All three delimiters must be the same character.)

```
*SUBSTITUTE /EVERY FAMILY/YOU/<CR>
WHY YOU SHOULD OWN A TIGER
*
```

The resulting text is displayed. The workspace pointer remains on the same line.

#### **Display Editor Line Numbers**

Many of the editor commands refer to line numbers; thus, it can be very useful to know the number of each line. The editor command NUMBER ON causes line numbers to be displayed along with the text.

```
*NUMBER ON<CR>
```

```
*TYPE B-E<CR>
    1: WHY YOU SHOULD OWN A TIGER:
          1.
              PROTECTION
                          A FAMILY WITH A TIGER NEED NEVER
    2:
                           WORRY ABOUT BURGLARS, SALESMEN, OR
    3:
    4:
                           NEIGHBORHOOD DOGS.
    5:
                           A WELL-TRAINED TIGER IS VERY AFFECTIONATE
          2.
              AFFECTION
                           TO THE OWNER'S FAMILY.
    6:
                           A TIGER IS THE ULTIMATE STATUS SYMBOL.
    7:
          3.
              ADMIRATION
                           INSPIRING AWE AND ADMIRATION IN EVERYONE.
    8:
```

#### Move a Block of Text

What if the block of text referring to protection would be better as the last item in the list? To move those three lines, use the editor command MOVE. This command includes two parameters: the range of lines to be moved, and the line before which the moved lines are to be placed. The section to be moved includes lines 2 through 4; the line before which they go is line 9 (the end of text).

\*MOVE 2-4 9<CR> \*\* EOF

Now use the TYPE command to display the result:

```
*TYPE B-E<CR>
```

¥

```
WHY YOU SHOULD OWN A TIGER:
1:
2:
          AFFECTION
                        A WELL-TRAINED TIGER IS VERY AFFECTIONATE TO THE OWNER'S FAMILY.
      2.
3:
4:
                         A TIGER IS THE ULTIMATE STATUS SYMBOL,
           ADMIRATION
       3.
5:
                         INSPIRING AWE AND ADMIRATION IN EVERYONE.
6:
           PROTECTION
       1.
                         A FAMILY WITH A TIGER NEED NEVER
7:
                         WORRY ABOUT BURGLARS, SALESMEN, OR
8:
                         NEIGHBORHOOD DOGS.
```

#### Find and Change a Character String

Now that you've moved the block of text, the paragraph numbers are in the wrong order. To correct the paragraph numbers, use the FSUBSTITUTE command, which finds and replaces a string of text. The command is followed by a delimiter (a character not found in either text string), the text to be searched for and replaced, a delimiter, the replacement string, and a delimiter. (All three delimiters must be the same character.) Before you enter the FSUBSTITUTE command, first enter the BEGIN command. This starts the search at the first line of the text. The period following BEGIN tells the editor not to display the line, as it normally would. Many commands that display the resulting line may be followed by a period if you do not want the line displayed.

```
*BEGIN.<CR>
*FSUBSTITUTE /1/3/<CR>
6: 3. PROTECTION A FAMILY WITH A TIGER NEED NEVER
```

#### Enter Multiple Commands on One Line

To change each of the remaining two numbers, enter the BEGIN command and the FSUBSTITUTE command on one line. When you enter more than one command on a line, the commands must be separated by a colon (:). Most of the editor commands may be entered in short forms instead of the long forms we have been using so far. This example shows the use of the short forms of the commands. The short form of BEGIN is B ,the short form of FSUBSTITUTE is FS, and the short form of TYPE is T.

```
*B.:FS /3/2/<CR>
          2. ADMIRATION
   4:
                         A TIGER IS THE ULTIMATE STATUS SYMBOL,
*B.:FS /2/1/<CR>
   2:
             AFFECTION
                          A WELL-TRAINED TIGER IS VERY AFFECTIONATE
          1.
*T B-E<CR>
   1: WHY YOU SHOULD OWN A TIGER:
                          A WELL-TRAINED TIGER IS VERY AFFECTIONATE
   2:
          1.
             AFFECTION
    3:
                          TO THE OWNER'S FAMILY.
   4:
          2.
             ADMIRATION
                         A TIGER IS THE ULTIMATE STATUS SYMBOL.
   5:
                          INSPIRING AWE AND ADMIRATION IN EVERYONE.
   6:
          3.
             PROTECTION A FAMILY WITH A TIGER NEED NEVER
                          WORRY ABOUT BURGLARS, SALESMEN, OR
   7:
   8:
                          NEIGHBORHOOD DOGS.
```

#### Print a Copy on the Line Printer

The text is now in the form you want. You may want to get a permanent copy, using a line printer or other hard copy peripheral attached to the system. To do this, you use the LIST command. The LIST command is much the same as the TYPE command. The line printer or other hard copy unit must, of course, be connected to the 8002A and be ready to receive the output.

\*LIST B-E<CR>

No output is sent to the terminal. Only the prompt is displayed to show that the editor is ready for another command.

Now use the FILE command to save the changed text on the disc file and exit the editor. The changed text will replace the old text in the file.

```
*FILE<CR>
** END OF TEXT
** EOF
*DOS* EOJ
>
```

# FOR CONTINUED LEARNING

In this Learning Guide we explained some elementary editor concepts. For a more detailed explanation, refer to the following sections of this manual:

- Section 2, Procedures. Describes a series of tasks and the commands needed to perform those tasks. All of the tasks include examples as well as instructions.
- Section 3, Command Dictionary. Provides a formal description of each editor command, its operation, and its syntax. Most command descriptions have illustrative examples. Commands are arranged alphabetically. The TEKDOS command EDIT is also described in detail.
- Section 4, Technical Notes. Describes the differences between the old and new versions of the editor.
- Section 5, Error Messages. Gives a thorough explanation of error messages what to do about them.

# Section 2 PROCEDURES

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# Section 2

# PROCEDURES

Section 1, the Learning Guide, gave you a general overview of the TEKDOS Editor (Version 3.X) and presented a simple demonstration run. This section presents some common procedures for using the editor with your 8002A  $\mu$ Processor Lab.

Each procedure in this section is presented in the following format:

- Description: A summary of the action(s) performed by the procedure.
- Procedure: The information entered or displayed at the system terminal. The following conventions are used in the procedure description:

Underlined: A character sequence you enter.

**No underline**: A character sequence displayed by the editor or by TEKDOS.

**UPPERCASE**: An exact character sequence; if these characters are underlined, enter them exactly as shown.

lowercase: A parameter you supply when you perform the procedure.

- Parameters: A description of the values you supply.
- Comments: The operating limits and options for the procedure.
- Examples: One or more demonstrations of correct entry format.
- See also: Cross-references to related procedures.

# THE ESSENTIALS

Invoking the Editor

Description:	This procedure invokes the editor and specifies the file to be created or edited.
Procedure:	> EDIT file
Parameters:	file—The disc file to be created or edited.
Comments:	The full form of the EDIT command is described in the Command Dictionary section of this manual. The short form
	EDIT file
	is sufficient for routine applications.
	If the specified file does not exist, it is created. If the file already exists, it is modified and the old version is saved under a backup name.
Examples:	> <u>EDIT SUBS</u>
	If SUBS already exists, it becomes the primary input file and a temporary primary output file is created. When you close the editing session with a FILE command, the edited contents of SUBS are copied to the primary output file. The primary output file is renamed SUBS and the primary input file is renamed SUBS*.
	If SUBS did not previously exist, there is no primary input file. The text written to the primary output file must come from the keyboard or from alternate input files. When a FILE command closes the editing session, the primary output file is saved under the name SUBS.
See also:	• Exiting the Editor
	Creating a File

• Modifying an Existing File

### Exiting the Editor

Description:	There are three ways to return control from the editor to TEKDOS:
	<ul> <li>The FILE command copies the contents of the workspace and the remainder of the primary input file to the primary output file, saves the primary output file, and terminates the editor.</li> </ul>
	<ul> <li>The QUIT command terminates the editor without further action. The primary output file is lost unless it existed before the editor was invoked.</li> </ul>
	<ul> <li>The SUSPEND command causes a temporary exit to TEKDOS. To return to the editor, enter CONT *; to terminate the editor as with a QUIT command, enter ABORT *.</li> </ul>
Procedure:	* <u>FILE</u>
	or
	* <u>QUIT</u>
	or
	*SUSPEND
	> <u>cont *</u>
	or
	* <u>SUSPEND</u>
	> <u>ABORT *</u>

See also:

• Invoking the Editor

## Creating a File

Description:	This procedure creates a new file from text entered from the system terminal.
Procedure:	<pre>&gt; EDIT filename ** EDIT VERSION 3.0 ** NEW FILE *INPUT INPUT: Enter your text here. A carriage return on an empty line terminates input mode. *FILE ** END OF TEXT *DOS* EOJ &gt;</pre>
Parameters:	filename—The name of the file to be created.
Examples:	In this example, "t" denotes the TAB key.
	<pre>&gt; EDIT DEMO1 ** EDIT VERSION 3.0 ** NEW FILE *INPUT INPUT: tTITLEt"8080A DEMONSTRATION RUN PROGRAM" tORGt100Ht; START PROGRAM AT ADDRESS 100 DEMOLLXItH,500Ht; SET TABLE POINTER tMVILB,5t; SET PASS COUNTER tXRAtAt; CLEAR ACCUMULATOR LOOPtADDtMt; ADD BYTE FROM TABLE (CR&gt; *FILE ** END OF TEXT *DOS* EOJ &gt; With the default tab stops in effect, the text looks like this when it is displayed: TITLE #8080A DEMONSTRATION RUN PROCEAM"</pre>
	TITLE "8080A DEMONSTRATION RUN PROGRAM" ORG 100H ; START PROGRAM AT ADDRESS 100 DEMO LXI H,500H ; SET TABLE POINTER MVI B,5 ; SET PASS COUNTER XRA A ; CLEAR ACCUMULATOR
	LOOP ADD M ; ADD BYTE FROM TABLE
See also:	<ul> <li>Modifying an Existing File</li> </ul>
	<ul> <li>Resetting the Tab Stops</li> </ul>
	<ul> <li>Expanding Tab Characters to Spaces</li> </ul>

-

## Modifying an Existing File

Description:	This procedure replaces a file created previously (by the editor or otherwise) with an edited version.
Procedure:	<pre>&gt; EDIT filename ** EDIT VERSION 3.0 *NEXT ** EOF * Make the necessary changes in the file. *FILE ** END OF TEXT ** EOF *DOS* EOJ &gt;</pre>
Parameters:	filename—The name of the file to be modified.
Farameters.	mename—me name of the me to be mouned.
Comments:	The file is modified according to the editor commands you enter. The old version is given a backup file name.
	The NEXT command brings the contents of the file into the workspace, moves the workspace pointer to the first line, and displays that line.
Examples:	<pre>&gt; EDIT SHORTY ** EDIT VERSION 3.0 *NEXT ** EOF THIS IS LINE ONE OF SHORTY. *SUBSTITUTE/SHO/THE NEW SHO/ THIS IS LINE ONE OF THE NEW SHORTY. *FILE ** END OF TEXT ** EOF *DOS* EOJ</pre>
	>
	Disc file SHORTY is modified. The new version of the file is named SHORTY and the old version is named SHORTY*.
See also:	Creating a File
	Editing a Large File by Sections

#### **Resetting the Tab Stops**

Description: This procedure sets the tab stops to the columns you wa	Description:	inis proceau	re sets	tne	tab	Stops	το	tne	columns	vou	wa
--	--------------	--------------	---------	-----	-----	-------	----	-----	---------	-----	----

Procedure: \*TABS n1 n2 n3 n4 n5 n6 n7 n8

Parameters: **n1** .. **n8**—The column numbers of the tab stops.

Comments: When you invoke the editor, the eight tab stops are at columns 8, 16, 24, 32, 40, 48, 56, and 64. You may specify up to eight new tab stops; all existing tab stops are lost. The column numbers must be in ascending order and in the range 1 to 127. Any text you display is aligned to the latest set of tab stops.

Examples: **\***TABS 10 20 35

This command deletes the existing tab stops and sets new tab stops at columns 10, 20, and 35.

- See also: Creating a File
  - Expanding Tab Characters to Spaces

#### **Expanding Tab Characters to Spaces**

- Description: When you use tab stops in creating a file, the tab characters you enter remain in the text. This procedure expands each tab character in the file into the appropriate number of spaces.
- Procedure: > EDIT filename \*\* EDIT VERSION 3.0 \*TAB t \*TABS n1 n2 n3 n4 n5 n6 n7 n8 \*XTABS ON \*FILE \*\* END OF TEXT \*\* EOF \*DOS\* EOJ >
- Parameters: **filename**—The name of the file containing tab characters.

t—The tab character you used in creating the file. If you used the standard tab character (CTRL-I), omit the TAB command.

**n1**...**n8**—The tab stops to which the text is to be aligned. If you want to use the standard tab stops (columns 8, 16, 24, 32, 40, 48, 56, and 64), omit the TABS command.

Comments: The command XTABS ON tells the editor that any tab character copied from the workspace is to be replaced by spaces up to the next tab stop. The FILE command copies the text from the primary input file, **through the workspace**, to the primary output file. Each tab character is replaced by spaces as it is copied to the primary output file. Afterward, the primary output file becomes the new version of **filename** and the primary input file becomes the backup version, **filenam\***.

#### NOTE

The standard tab character is an acceptable delimiter in MDL and ASM source files, but may produce unexpected results in other types of files. A file containing non-standard tab characters (defined with the TAB command) is usually useless.

Examples:

WHY YOU SHOULD OWN A TIGER: \$1.\$AFFECTION\$A WELL-TRAINED TIGER IS VERY AFFECTIONATE %%%TO THE OWNER'S FAMILY. \*COPY\* EOJ > EDIT TIGERS \*\* EDIT VERSION 3.0 \*TAB % \*TABS 4 8 20 \*XTABS ON \*FILE \*\* END OF TEXT \*\* EOF \*DOS\* EOJ > COPY TIGERS WHY YOU SHOULD OWN A TIGER: A WELL-TRAINED TIGER IS VERY AFFECTIONATE 1. AFFECTION TO THE OWNER'S FAMILY. \*COPY\* EOJ >

See also:

• Creating a File

> COPY TIGERS

Resetting the Tab Stops

# DISPLAYING TEXT

Description:	This procedure displays workspace text on the system terminal or the line printer.
Procedure:	*TYPE lines
	or
	*LIST lines
Parameters:	lines—The range or number of lines you want to display. If no parameter is specified, only the current line is displayed.
Examples:	*TYPE 20
	This command displays 20 lines on the system terminal, starting with the current line.
	*LIST 15-25
	This command displays lines 15 through 25 on the line printer.
See also:	<ul> <li>Displaying Text from a File</li> </ul>
	<ul> <li>Displaying Line Numbers with the Text</li> </ul>

## Displaying Text from a File

Description:	This procedure displays the contents of a disc file without affecting the text in the workspace.
Procedure:	*COPY lines file CONO
	or
	*COPY lines file LPT1
Parameters:	lines—The range or number of lines to be displayed.
	file—The name of the disc file to be displayed.
Comments:	CONO specifies the system terminal; LPT1 specifies the line printer.

#### Examples: \*COPY 101-120 MYFILE CONO

This command skips over the first 100 lines of MYFILE and displays the next 20 lines on the system terminal.

#### \*COPY 999 HERFILE LPT1

This command displays the first 999 lines of HERFILE on the line printer. If HERFILE contains fewer than 999 lines, the entire file is listed.

- See also: Displaying Text from the Workspace
  - Listing a File with Line Numbers

#### **Displaying Line Numbers with the Text**

Description: This procedure causes each text line displayed by the editor to be accompanied by its line number.

Procedure: **#NUMBER ON** 

Comments: To suppress the display of line numbers, enter the command NUMBER OFF.

Examples: **\*TYPE 3** THURSDA FRIDAY SATURDA

THURSDAY FRIDAY SATURDAY \*NUMBER ON:TYPE 3 5: THURSDAY 6: FRIDAY 7: SATURDAY \*BEGIN 1: SUNDAY \*NUMBER OFF:DOWN

See also: • Listing a File with Line Numbers

MONDAY

#### Listing a File with Line Numbers

Description: This procedure lists the contents of a file on the line printer. A line number is printed next to each line so that a command such as COPY or GET may refer to the proper lines.

Procedure: > EDIT file \*\* EDIT VERSION 3.0 \*NUMBER ON \*NEXT 1000 \*LIST B-E \*QUIT \*DOS\* EOJ >

Parameters: file—The file to be listed.

- Comments: Each NEXT command brings the next 1000 lines from the file into the workspace. The LIST command lists those lines on the line printer, numbering them 1 to 1000. Note that lines 1, 1001, 2001, etc. of the file are all labeled line 1. When the last line from the file is in the workspace, the editor responds \*\* EOF. After the entire file has been listed, end the editing session with a QUIT command so that the primary output file (which you do not need) is deleted.
- See also: Displaying Line Numbers with the Text

# LINE MANIPULATION

#### Moving the Workspace Pointer

Description: The editor provides several commands for moving the workspace pointer.

BEGIN moves the pointer to the first line of text. END moves the pointer past the last line. UP and DOWN move the pointer up and down the text, respectively.

FIND and FNEXT move the pointer to the next line containing a specified string of characters. To find the string, FIND searches only the text in the workspace. FNEXT searches the workspace, then the rest of the primary input file, until the string is found.

Procedure:	*BEGIN
	or
	* <u>END</u>
	or
	* <u>UP n</u>
	or
	*DOWN n
	or
	*FIND/string/
	or
	*FNEXT/string/
Parameters:	$\mathbf{n}$ —The number of lines up or down the pointer is to move. If this parameter is omitted, the pointer moves one line.
	/-The string delimiter: any character (except a space) not occurring in the string.
	string—The string of characters to be found.
See also:	• Finding a String

Controlling the	Current-Line Display
Description:	Each of the following commands displays the current line after executing successfully:
	BEGIN END FNEXT NEXT SUBSTITUTE DOWN FIND FSUBSTITUTE REPLACE UP
	This current-line display is controlled by the BRIEF flag.
Procedure:	*BRIEF ON
	or
	*BRIEF OFF
Comments:	When the BRIEF flag is at its default setting (OFF), the current line is displayed whenever any of the above commands is executed. After you enter BRIEF ON, those commands will not automatically display the current line.
	You may enter a period immediately after any of the above commands to reverse the BRIEF flag for that command.
Examples:	*BEGIN LINE ONE The new current line, line 1, is displayed. *DOWN 3 LINE FOUR *DOWN.3
	The period suppresses display of line 7. *BRIEF ON *BEGIN
	Line 1 is not displayed because the BRIEF flag is ON. *DOWN 3
	Line 4 is not displayed because the BRIEF flag is ON. *DOWN.3
	LINE SEVEN The period reverses the BRIEF flag temporarily. *BRIEF OFF *UP
	LINE SIX *UP.
	The period suppresses display of line 5.

#### Moving Text within the Workspace

Description:	This procedure deletes a section of text from the workspace and inserts it elsewhere in the workspace.
Procedure:	*MOVE lines n
Parameters:	<b>lines</b> —The number or range of lines to be moved. <b>n</b> —The moved text is inserted in front of line <b>n</b> . If <b>n</b> is omitted, the text is moved to the end of the workspace.
Examples:	*NUMBER ON: BEGIN.: TYPE 12 1: JANUARY 2: FEBRUARY 3: MARCH 4: APRIL 5: MAY 6: JUNE 7: JULY 8: AUGUST 9: SEPTEMBER 10: OCTOBER 11: NOVEMBER 12: DECEMBER *MOVE 6-8 2 *TYPE 12 1: JANUARY 2: JUNE 3: JULY 4: AUGUST 5: FEBRUARY 6: MARCH 7: APRIL 8: MAY 9: SEPTEMBER 10: OCTOBER 11: NOVEMBER 12: DECEMBER

The MOVE command moves lines 6 through 8 in front of line 2. Lines are renumbered accordingly.

See also:

- Moving Text Forward in the File
- Rearranging Text from One or More Files

## Repeating a Block of Text

Description:	This procedure inserts copies of a selected section of workspace text at specified points in the workspace.
Procedure:	* <u>SAVE lines</u> * <u>BEGIN</u> * <u>FIND/string1/:UNSAVE</u> * <u>FIND/string2/:UNSAVE</u> * <u>FIND/stringN/:UNSAVE</u>
Parameters:	lines-The number of lines or range of lines to be duplicated. The lines are inserted in front of each destination line.
	stringN-A unique string in the Nth destination line.
	/—The string delimiter: any character (except a space) not occurring in the string.
Comments:	Each FIND-UNSAVE command line moves the workspace pointer to a new destination line and inserts a copy of the selected text in front of it.
Examples:	The following command sequence inserts a line of dashes in front of every line in the workspace that contains the assembler directive ORG. (The line of dashes begins with a semicolon because it is an assembler comment line.)
	*INSERT ;
	* <u>SAVE_1</u> * <u>KILL_</u>
	* <u>BEGIN.</u> * <u>*<find :unsave:down.="" org=""></find></u>
	The INSERT-UP-SAVE command sequence creates a line of dashes and copies the line to the save area. KILL deletes the saved line from the workspace. BEGIN moves the workspace pointer to line 1. The FIND-UNSAVE-DOWN command sequence finds the next line containing the word ORG and inserts the line of dashes in front of that line. The repeat brackets around the FIND-UNSAVE-DOWN sequence indicate that the sequence is to be repeated until the FIND command fails.
	Note that if the text contains tab characters, the search string should be /tORGt/, not / ORG /. (The "t" represents whatever tab character is in the text.)

See also: • Finding a String

# CHARACTER STRING MANIPULATION

#### Finding a String

Examples:

Description: The commands FIND and FNEXT each move the workspace pointer to the next line containing a specified string.

If the string does not occur in the workspace at or after the current line, the FIND command responds NOT FOUND, but the FNEXT command keeps searching. FNEXT appends the workspace contents to the primary output file, loads up the workspace from the primary input file, and searches the new contents of the workspace. FNEXT stops when the section of text containing the string is in the workspace, or when the primary input file has been searched to its end.

Procedure: \*FIND/string/

or

\*FNEXT/string/

Parameters: /—The string delimiter: any character (except a space) not occurring in the string.

string-The string of characters to be found.

\*NUMBER ON \*BEGIN.:TYPE 2 1:AARDVARK, ADAM 2:ACORN, ALICE \*FIND/BUFF/ 80:BUFFALO, WALTER \*BEGIN.:FNEXT/BUFF/ 80:BUFFALO, WALTER

The string "BUFF" occurs in the workspace, so it is found either by FIND or by FNEXT.

\*FIND/BRU/ \*\* NOT FOUND \*FNEXT/BRU/ 43:SPRUCE, BRUCE

The string "BRU" does not occur in the workspace after line 80, so FNEXT searches the primary input file, section by section. The string is finally found in line 43 of some later section.

See also: 

Replacing a String

• Moving the Workspace Pointer

# **Replacing a String**

Description:	The commands SUBSTITUTE and FSUBSTITUTE each find a string of characters in the text and replace that string with a new string. Each command searches for the string beginning at the current line and replaces only the first occurrence of the string.
	If the string does not occur in the current line, SUBSTITUTE responds NOT FOUND, but FSUBSTITUTE keeps searching to the end of the workspace. If the string is found, the line that contains it becomes (or remains) the current line, the new string replaces the old string, and the modified line is displayed.
Procedure:	*SUBSTITUTE/oldstring/newstring/
	or
	*FSUBSTITUTE/oldstring/newstring/
Parameters:	/—The string delimiter: any character (except a space) not occurring in either string.
	oldstring—The string to be replaced.
	newstring—The string that replaces oldstring.
Comments:	SUBSTITUTE and FSUBSTITUTE may be abbreviated S and FS, respectively.
Examples:	*TYPE 4 THE CURENT LINE THE NEXTL INE THE AFTER THAT THE LASTEST LINE *S/R/RR/ THE CURRENT LINE *FS/TL /T L/ THE NEXT LINE *S/AFTER/ONE AFTER/ THE ONE AFTER THAT *FS/EST// THE LAST LINE *UP.3:TYPE 4 THE CURRENT LINE THE NEXT LINE THE NEXT LINE THE ONE AFTER THAT THE LAST LINE
See also:	<ul> <li>Finding a String</li> <li>Making a Global String Replacement</li> </ul>

#### Making a Global String Replacement

Description: This procedure replaces every occurrence of a specified string of characters with a new string.
Procedure: 
\*BEGIN
\*\*<FS/oldstring/newstring/>

or

\*BEGIN
\*\*<FS/oldstring/newstring/>
\*NEXT
Repeat these two lines
as necessary.

Parameters: /—The string delimiter: any character (except a space) not occurring in either string.

oldstring-The string to be replaced.

newstring-The string that replaces oldstring.

Comments: The first form of the procedure replaces all occurrences of **oldstring** in the workspace. The second form replaces all occurrences in the workspace **and** in the text from the remainder of the primary input file.

The FSUBSTITUTE command (short form FS) repeats until it fails to find a match. Each time a replacement is made, the modified line is displayed.

When there are no more occurrences of **oldstring** in the workspace, the message NOT FOUND is displayed. If you want to continue the global replacement past the current workspace contents, enter the NEXT command to bring the next section of text from the primary input file into the workspace. Then enter the FS command line again.
*Either form of this procedure can be very destructive if you choose your search and replacement strings carelessly. Note the following points:* 

- A search string that is too general may lead to unexpected replacements.
- A capital letter never matches a lowercase letter, and vice versa.
- The replacement string should not contain the search string. For example, the command line

5<FS/MAN/WOMAN/>

replaces the first occurrence of "MAN" with "WOWOWOWOMAN".

Examples:	*TYPE B-E A PROGRAM THIS RAM AND THAT RAM A PARAMETER 4K RAM THE LOS ANGELES RAMS *BEGIN A PROGRAM ** <fs ram="" rom=""></fs> A PROGROM THIS rom AND THAT RAM THIS rom AND THAT rom A PAromETER
	A PAromETER
	4K rom THE LOS ANGELES romS ** NOT FOUND

Every occurrence of "RAM" in the workspace is replaced by "rom". BEGIN moves the workspace pointer to the line 1 and displays that line. The FS command repeats until all occurrences of "RAM" in the workspace have been replaced. The modified line is displayed after each FS command.

See also:

- Replacing a String
- Repeating a Command Sequence

# **BLOCK MANIPULATION**

#### Editing a Large File by Sections

Description: This procedure allows you to edit a file that is too large to fit into the workspace. The editor program occupies about 9K bytes of 8002A program memory, and the rest of program memory is available for the workspace. For example, if your 8002A has 64K of program memory, a file that occupies about 55 disc blocks can be stored in the workspace in one piece.

Procedure:	> EDIT file ** EDIT VERSION 3.0 *NEXT n
	Edit the first n lines of text. *NEXT n
	Edit the next n lines of text. *NEXT n
	Repeat until the entire file has been edited. *FILE
	** END OF TEXT ** EOF
	*DOS* EOJ
	>

Parameters:

file-The name of the large file you want to edit.

**n**—The number of lines in the next block of text to be edited. **n** may vary from one block to the next. If **n** is omitted, the workspace is filled to three-fourths of its capacity.

Comments: Each NEXT command appends the workspace contents (if any) to the primary output file, brings the next **n** lines from the primary input file into the workspace, and displays the new current line (line 1).

Examples: > EDIT BIG;S \*\* EDIT VERSION 3.0 \*NEXT 200 THE 1ST LINE IN THE FILE Edit lines 1-200. \*NEXT 300 THE 201ST LINE IN THE FILE Edit lines 201-500. \*NEXT 150 THE 501ST LINE IN THE FILE Edit lines 501-650. \*FILE \*\* END OF TEXT \*\* EOF \*DOS\* EOJ >

See also:

- Modifying an Existing File
- Listing a File with Line Numbers

## Moving Text Forward in the File

Description:	This procedure deletes a section of text from the workspace and inserts it later in the file being edited.
Procedure:	* <u>SAVE lines</u> * <u>KILL lines</u> * <u>FNEXT/destination-string/</u> The editor searches for the destination line. The editor displays the destination line. * <u>UNSAVE</u>
Parameters:	lines—The number of lines or range of lines to be moved.
	<b>destination-string</b> —A unique string in the destination line. The text being moved is inserted in front of the destination line.
	/-The string delimiter: any character (except a space) not occurring in the string.
Comments:	This procedure is used to move text forward to that portion of the file that has not yet been brought into the workspace. Use the procedure "Rearranging Text from One or More Files" to move text backward in a large file. If the workspace contains both the text being moved and the destination line, use the MOVE command instead of either of these procedures.
	The SAVE command copies the text being moved into the save area, and the KILL command deletes that text from the workspace. The FNEXT command searches for the destination line, first in the workspace, then in the rest of the primary input file. When the destination line is found, it is displayed as the new current line. The UNSAVE command inserts the text being moved into the workspace in front of the destination line.

Examples:

In this example, the lines of the file are numbered for clarity. Lines 1001-1050 are moved forward in the file to line 4000.

\*TYPE 3
LINE 1001
LINE 1002
LINE 1003
\*SAVE 50
\*KILL 50
\*FNEXT/4000/
\*\* END OF TEXT
\*\* WORKSPACE FULL
LINE 4000
\*UNSAVE

The SAVE command copies lines 1001-1050 into the save area, and the KILL command deletes those lines from the workspace. The FNEXT command appends the workspace contents to the primary output file, then brings the next block of text from the primary input file into the workspace. That block contains line 4000. The editor moves the workspace pointer to line 4000 and displays that line. The UNSAVE command inserts the contents of the save area (lines 1001-1050) in front of line 4000.

- See also: Finding a String
  - Moving Text within the Workspace
  - Rearranging text from One or More Files
- **Rearranging Text from One or More Files**
- Description: This procedure copies sections of text from one or more existing files onto a new file. You may use this procedure to move sections of text forward or backward in a file, or to concatenate sections from several different files.
- Procedure: > EDIT newfile \*\* EDIT VERSION 3.0 \*\* NEW FILE \*COPY lines1 file1 \*COPY lines2 file2 . \* \*COPY linesN fileN \*FILE \*\* END OF TEXT \*DOS\* EOJ >

Parameters:	<b>newfile</b> —The file on which the various sections of text are to be stored. <b>newfile</b> , which is created in this editing session, is the primary output file. There is no primary input file.
	fileN—The file from which text is copied by the Nth COPY command.
	linesN—The range of lines copied by the Nth COPY command.
Comments:	<b>file1, file2, fileN</b> may all be the same file. Each COPY command appends the specified text to the primary output file, which is the default output file for the COPY command.
Examples:	<pre>&gt; EDIT SORTED ** EDIT VERSION 3.0 ** NEW FILE *COPY 1-100 UNSORTED *COPY 601-700 UNSORTED *COPY 101-600 UNSORTED *FILE ** END OF TEXT *DOS* EOJ &gt;</pre>
	The first 700 lines of disc file UNSORTED are rearranged and stored on the newly created file called SORTED. Lines 601-700 of UNSORTED are inserted after line 100.
See also:	<ul> <li>Listing a File with Line Numbers</li> </ul>
	<ul> <li>Moving Text within the Workspace</li> </ul>
	Moving Text Forward in the File
	Saving Text on a File     Adding Text from a File
	<ul> <li>Adding Text from a File</li> </ul>
Saving Text on a	File
Description:	This procedure copies text from the workspace to a disc file.
Procedure:	*PUT lines filename
	or

\*PUTK lines filename

Parameters:	<b>lines</b> —The number or range of lines to be copied. If you omit this parameter, only the current line is copied.
	<b>filename</b> —The name of the file to which the text is copied. If the file does not exist, it will be created. If the file already exists, its previous contents are replaced by the copied text. If you omit this parameter, the text is appended to the primary output file.
Comments:	PUT does not affect the workspace contents or pointer. PUTK deletes the copied text from the workspace; if the current line is deleted, the first line after the deleted text becomes the current line.
	You may also use the commands FILE, FNEXT, or NEXT to copy text from the workspace to the primary output file.
Examples:	*PUTK B-E
	This command appends the workspace contents to the primary output file and clears the workspace.
	*PUT 40-73 TEMP
	This command saves workspace lines 40 through 73 on disc file TEMP. Any previous contents of TEMP are lost.
See also:	<ul> <li>Adding Text from a File</li> </ul>
	<ul> <li>Rearranging Text from One or More Files</li> </ul>
Adding Text from	a File
Description:	This procedure inserts text from a file into the workspace in front of the current line.
Procedure:	*GET lines filename
Parameters:	<b>lines</b> —The number or range of lines to be copied. If you omit this parameter, only one line is copied.
	<b>filename</b> —The file from which the text is copied. If you omit this parameter, text is copied from the primary input file.
Comments:	You may also use the commands FNEXT or NEXT to bring text into the workspace from the primary input file.

# Examples: \*GET 100

This command brings the next 100 lines from the primary input file into the workspace.

#### \*GET 100 TEMP

This command brings the first 100 lines from disc file TEMP into the workspace.

#### \*GET 201-300

This command skips over the first 200 lines of the primary input file and brings the next 100 lines into the workspace. Afterward, the primary input file pointer is at line 301.

#### See also: • Listing a File with Line Numbers

- Saving Text on a File
- Rearranging Text from One or More Files

# **COMMAND SHORTCUTS**

#### Entering Several Commands on a Line

Description: This procedure strings together several commands on a single command line.

Procedure: \*command:command:

Parameters: command—Any editor command.

Comments: A command line may contain any number of editor commands as long as the command line does not exceed 127 characters. The commands must be separated by colons (:). If the editor finds an error, all subsequent commands in the line are ignored.

Each of the following commands must be the last command on any command line on which it occurs.

COMMENT FILE PERFORM QUIT SUSPEND

Examples: \*BEGIN.:FIND/ERROR/:UP

This command displays the first line containing the string "ERROR", then moves the workspace pointer to the preceding line and displays that line.

- See also: Repeating a Command Sequence
  - Creating and Using a Command Macro

#### **Repeating a Command Sequence**

Description: This procedure allows you to execute a sequence of commands a specified number of times without reentering the command sequence.

Procedure: \*n<command-sequence>

Parameters:	<b>command-sequence</b> —A sequence of editor commands separated by colons (:).		
	<b>n</b> —The number of times the command sequence is to be executed. If <b>n</b> is an asterisk (*), the command sequence repeats until a string search command (FIND, FNEXT, FSUBSTITUTE, or SUBSTITUTE) in the sequence fails to find a match, or until you press the ESC (escape) key.		
Comments:	A repeated command sequence may be nested within another repeated sequence.		
Examples:	*10 <list b-e=""></list>		
	This command line lists the workspace contents on the line printer 10 times.		
	** <find :down.="" byte=""></find>		
	This command line displays every line containing the string "BYTE" on the system terminal.		
See also:	<ul> <li>Creating and Using a Command Macro</li> </ul>		
Creating and Using a Command Macro			
Creating and Usin	ig a Command Macro		
Description:	This procedure stores a frequently-used command line (called a macro) and assigns it an identification number. That command line is executed whenever its identification number is specified in a MACRO command.		
	This procedure stores a frequently-used command line (called a macro) and assigns it an identification number. That command line is executed		
Description:	This procedure stores a frequently-used command line (called a macro) and assigns it an identification number. That command line is executed whenever its identification number is specified in a MACRO command.		
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Description:	This procedure stores a frequently-used command line (called a macro) and assigns it an identification number. That command line is executed whenever its identification number is specified in a MACRO command. To create a macro: *MACRO n=command-line		
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Examples:	*MACRO10=BEGIN.:TYPE 6:END:UP.3:TYPE 3
	*M10 THESE ARE THE FIRST SIX LINES ** END OF TEXT THESE ARE THE LAST THREE LINES
	Macro number 10 is defined as a command line to list the first six lines and the last three lines in the workspace. Those lines are listed whenever macro number 10 is invoked. MACRO may be abbreviated M.
See also:	<ul> <li>Entering Several Commands on a Line</li> </ul>
	Repeating a Command Sequence
Executing Comma	inds from a Command File
Description:	This procedure causes the editor to execute commands from a file instead of from the system terminal.
Procedure:	*PERFORM comfile
	or

> EDIT infile outfile comfile

Parameters: comfile—The name of the editor command file. infile—The name of the primary input file. outfile—The name of the primary output file. Comments: The editor command PERFORM causes the editor to begin executing commands from the specified file. When the end of the file is reached or an error is detected, the editor prompts for a command from the system terminal.

The initial command file (specified by the third parameter of the EDIT command) is automatically executed at the beginning of the editing session.

You may use the editor to create a command file in the same way you create any other text file.

Examples: The following editing session creates a command file called TOUCHDOW. TOUCHDOW moves the first line containing the string "FOOTBALL" to the end of the workspace.

> > EDIT TOUCHDOW \*\* EDIT VERSION 3.0 \*\* NEW FILE \*<u>INPUT</u> INPUT: COMMENT -- HIKE! BEGIN.:FIND/FOOTBALL/ MOVE 1 E COMMENT -- YAY! <CR> \*FILE \*\* END OF TEXT \*DOS\* EOJ

>

TOUCHDOW may be executed in any subsequent editing session. For example:

\*TYPE B-E END ZONE THE FOOTBALL LINEBACKER SAFETY END ZONE \*PERFORM TOUCHDOW \*COMMENT -- HIKE! \*BEGIN.:FIND/FOOTBALL/ THE FOOTBALL \*MOVE 1 E \*COMMENT -- YAY! \*TYPE B-E END ZONE LINEBACKER SAFETY END ZONE THE FOOTBALL

Assume that disc file STARTUP contains the following text:

COMMENT -- Command file STARTUP COMMENT -- This command file begins a standard editing session for I. M. DeProgrammer. COMMENT --COMMENT -- Set selected editor flags: BRIEF ON: ECHO OFF: NUMBER ON: XSEARCH ON: XTABS ON COMMENT -- Select the tab stops and the editor tab character: TABS 3 5 7 9 11 13 15 60 TAB @ COMMENT -- Define standard macros: COMMENT -- Macro 1 displays the first 5 lines and last 5 COMMENT -lines in the workspace. MACRO 1 = BEGIN.: TYPE 5: END: UP. 5: TYPE 5 COMMENT -- Macro 2 displays the workspace map. MACRO 2 = DEBUG ON: DEBUG OFF COMMENT -- Macro 3 displays the editor status, the workspace COMMENT -- map, and all currently defined macros. MACRO 3 = STATUS: MACRO 2: MACRO COMMENT -- End of STARTUP.

The following command begins an editing session that creates or modifies a file called PROG:

> EDIT PROG,,STARTUP

The commands in STARTUP are executed, then the editor prompts for a command from the system terminal. At that point, the desired editor features have been turned ON or OFF, the tab stops and tab character have been selected, and three macros have been defined.

# Section 3 **COMMAND DICTIONARY**

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# Section 3

# **COMMAND DICTIONARY**

## INTRODUCTION

This Command Dictionary alphabetically lists and describes in detail the commands for version 3.X of the TEKDOS Editor. EDIT, the TEKDOS command that invokes the editor, is also described in this dictionary. EDIT is listed in alphabetical order between editor commands ECHO and END.

#### **Dictionary Page Format**

Each command entry contains a syntax block, parameter definitions, a general explanation, and examples.

This Command Dictionary uses the same syntax block conventions as the Command Dictionary and the Editor Dictionary in the 8002A  $\mu$ Processor Lab System Users Manual:

- The underlined part of a command name is the shortest form of the command recognized by the editor.
- Parameters enclosed in braces { } are required.
- Parameters enclosed in brackets [] may be omitted.
- Parameters stacked one above the other are alternate forms of the same parameter.

The PARAMETERS section of each entry outlines the functions and limitations of the parameters. The uses and functions of the command are summarized in the EXPLANATION section and demonstrated in the EXAMPLES section.

#### Terminology

The **primary input file** and **primary output file** are the default files for those editor commands that copy text to or from files: COPY, GET, PUT, and PUTK. The editor commands FILE, FNEXT, and NEXT operate on the primary input file and primary output file exclusively. When a file is edited, the old version of the file is the primary input file and the edited version is the primary output file.

Any other file that provides or receives text through one of the above commands is termed an alternate input file or alternate output file.

The initial command file contains editor commands that are executed before the editor accepts commands from the system terminal. The initial command file might contain a few initializing commands or a whole editing session.

Primary files, alternate files, and the initial command file are discussed in more detail under the EDIT command.

The **workspace** is a section of 8002A program memory that holds the text currently being edited. The **workspace pointer** always points to one line of text in the workspace, called the **current line**. Many editor commands operate on the current line; other commands move the workspace pointer, designating a new current line.

A text line may be referenced by its **line number**, which indicates the line's position in the workspace. The top line of text is designated line 1, the next line down is line 2, etc. With certain editor commands, the following three letters may be used as line numbers: B (beginning of workspace), C (current line), and E (end of workspace).

#### The Workspace Buffer

The workspace buffer is a section of 8002A program memory used by the editor to store text. The workspace buffer contains the four areas listed below. Figure 3-1 shows how these four areas are arranged in the workspace buffer.

- The **workspace** contains the text being edited. As you add text to the workspace, the workspace grows toward the end of memory.
- The **save area** contains the text set aside by the latest SAVE command. The size of the save area corresponds to the size of the block of text most recently saved.
- The macro area contains any macros defined with the MACRO command. As you define new macros, the macro area expands, pushing the save area toward the beginning of memory.
- The free area is the section of available memory between the workspace and the save area.

The editor program occupies about 9K bytes of program memory. The rest of program memory constitutes the workspace buffer. In a system with 64K of program memory, 55 bytes of text (about 1400 lines averaging 40 characters each) may be stored in the workspace buffer.



Fig. 3-1. The workspace buffer.

When you invoke the editor, the workspace, save area, and macro area are empty, and all of the workspace buffer is free (Fig. 3-1a). As text is stored into the workspace and the save area, the two areas grow toward each other, and the free area diminishes. The macro area grows with each new macro defined, pushing the save area toward the workspace (Fig. 3-1b). When no free area remains (Fig. 3-1c) the editor responds WORKSPACE FULL. You may recover some free space by moving or deleting lines from the workspace, by deleting macros, or by replacing the contents of the save area with a smaller block of text.

#### **Command Lines**

Several characters have special meanings in editor command lines:

- The asterisk ("\*") is the editor prompt character.
- The colon (":") separates commands in the same line.
- The period (".") immediately following a command name suppresses display of the new current line after the command executes. (See the BRIEF command.)
- The angle brackets ("<" and ">") enclose a command sequence that is to be repeated a specified number of times (or until a command in the sequence fails to execute). The "<" must be preceded by an integer that indicates the number of times the sequence is to be repeated; or by an asterisk, which says to repeat until a command fails.

Execution of a command line aborts if the editor detects an error.

The following example demonstrates how these special characters are used.

#### **Special Keys**

#### ESC (Escape)-Erases Line; Halts Command Execution.

Pressing the ESC key once deletes the contents of the line being entered. If the editor is awaiting a command line, another prompt is supplied.

If the editor is executing a command when you press ESC, the editor finishes the command being executed but does not continue to the next command in the command line. The editor displays the message "BREAK" and prompts for a command.

If any of the following commands is executing when ESC is pressed, the editor finishes transferring only the line being copied.

```
COPY FILE FNEXT GET NEXT PUT PUTK
```

If you want to exit temporarily to TEKDOS, use the SUSPEND command. Pressing the ESC key twice rapidly is a less reliable way of accomplishing the same thing.

#### BACKSPACE or RUBOUT—Deletes Character.

The BACKSPACE key and the RUBOUT key have similar functions; either key tells the editor to discard the last character typed. The RUBOUT key is discussed more fully under the CRT command.

#### Space Bar-Halts or Resumes Display.

As in TEKDOS, the space bar may be used to halt and resume display of text on the system terminal.

#### TAB or CRTL-I-Skips to Next Tab Stop.

The TAB key sends the standard tab character (CTRL-I, ASCII code 09) to the editor. The cursor moves to the next tab stop. If the last tab stop has been passed, the cursor advances one space.

#### SYNTAX

AGAIN

#### EXPLANATION

The AGAIN command repeats execution of the latest repeatable editor command, regardless whether that command was typed in, contained in a macro, or input from a command file, and regardless whether the command was successfully executed.

The following commands are repeatable with the AGAIN command:

BEGIN	FNEXT	KILL	PUT	SUBSTITUTE
COPY	FSUBSTITUTE	LIST	PUTK	SUSPEND
DOWN	GET	LN	REPLACE	TYPE
END	INPUT	NEXT	STATUS	UP
FIND	INSERT			

#### **EXAMPLES**

Assume that the following text is in the workspace:

A LINE ANOTHER LINE YET ANOTHER WILL THE LAST LINE EVER COME? YES, HERE IT IS AT LAST: \*\*\* THE LAST LINE \*\*\*

Enter the following command line:

\*DOWN.1:KILL 2

The editor deletes the second and third lines of text.

The workspace now looks like this:

A LINE WILL THE LAST LINE EVER COME? YES, HERE IT IS AT LAST: \*\*\* THE LAST LINE \*\*\*

Enter the AGAIN command: \*AGAIN

The editor repeats only the KILL 2 command, not the whole command line.

The workspace now looks like this:

A LINE \*\*\* THE LAST LINE \*\*\*

#### SYNTAX

BEGIN

#### **EXPLANATION**

The BEGIN command moves the workspace pointer to the first line of text and displays the line. To suppress the display, enter a period after the command.

#### **EXAMPLES**

Assume that the following text is in the workspace:

A LINE ANOTHER LINE THE NEXT LINE IS THE END

Enter the following command. The new current line is displayed.

\*<u>BEGIN</u> A LINE

The workspace now looks like this:

A LINE ANOTHER LINE THE NEXT LINE IS THE END

			SYNTAX		
<u>BR</u> IEF	ON OFF				

#### PARAMETERS

ON	suppresses the current-line display.
OFF	reinstates the current-line display.

#### **EXPLANATION**

The BRIEF command sets the value of the BRIEF flag. Normally (BRIEF flag OFF), after each of the following editor commands has finished executing, the new current line is displayed.

BEGIN	END	FNEXT	NEXT	SUBSTITUTE
DOWN	FIND	FSUBSTITUTE	REPLACE	UP

Turning the BRIEF flag ON causes this current-line display to be suppressed. Turning the flag OFF reinstates the display.

Entering the BRIEF command without a parameter reverses the value of the BRIEF flag.

When any of the above commands is followed immediately by a period, the action of the BRIEF flag is reversed for the execution of that command only.

#### **EXAMPLES**

Assume that the following text is in the workspace:

TRUSTWORTHY LOYAL HELPFUL FRIENDLY COURTEOUS

Enter the following command line:

\*DOWN:BRIEF ON:DOWN:BRIEF OFF:DOWN:DOWN.

The first DOWN moves the workspace pointer to the second line and displays it: LOYAL

The second DOWN moves the pointer to the third line, but does not display it because the BRIEF flag has been turned ON. The third DOWN moves the pointer to the fourth line and displays it because BRIEF is OFF again:

FRIENDLY

The last DOWN moves the pointer to the fifth line, but the current-line display is suppressed by the period following DOWN. This period turns the BRIEF flag back ON for that command only.

#### SYNTAX

COMMENT [text]

#### PARAMETERS

text

any line of text

#### EXPLANATION

The word COMMENT identifies a comment in command input. The rest of the line following a COMMENT command is ignored by the editor. The editor displays the COMMENT line on the system terminal (if the ECHO flag is ON) and proceeds to the next command.

#### **EXAMPLES**

Assume that disc file EXAMPLE contains the following text: COM THIS COMMAND FILE MOVES THE POINTER TO THE END OF THE WORKSPACE. END COM \*\*\* END OF EXAMPLE \*\*\*

Enter the following command:

\*PERFORM EXAMPLE

The editor executes the command file, moving the pointer to the end of the workspace and displaying each command as it is executed. The editor responds as follows:

\*COM THIS COMMAND FILE MOVES THE POINTER TO THE END OF THE WORKSPACE. \*END \*\* EOF \*COM \*\*\* END OF EXAMPLE \*\*\*

#### SYNTAX

<u>COPY</u> number of lines

[{input file[/disc]} [output file[/disc]]]

#### PARAMETERS

number of lines number of lines to be copied.

- range of lines range of lines to be copied, for example 2-6. B, C, and E may **not** be used as line numbers in a COPY command.
- input file name of the file or device from which text is copied.
- output file name of the file or device to which text is copied. To specify the primary output file, omit this parameter.
- disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

#### EXPLANATION

The COPY command copies text from a disc file or device to another disc file or device without affecting the workspace contents or pointer. Copying ends when the specified lines have been copied or when the end of the input file is reached.

If neither a number of lines nor a range of lines is specified, one line is copied.

If an alternate input file is specified, copying begins at the beginning of that file or at the first line in the specified range. If an alternate output file is specified, its contents are replaced with the copied text. If the alternate output file specified did not exist previously, it is created.

If you do not specify an alternate input file or device, or if you specify the primary input file by name, text is copied from the primary input file.

- If you specify a number of lines, copying begins at the primary input file pointer.
- If you specify a range of lines, those lines are copied regardless of the position of the pointer.
- In any case, after copying the primary input file pointer is at the line following the last line copied.

You may not copy to the primary input file or from the primary output file.

If you specify an output file or device, you must also specify an input file or device.

#### EXAMPLES

#### \*COPY

appends one line from the primary input file to the primary output file. The primary input file pointer advances one line.

#### \*COPY 10-20 FILE1/0

skips over the first 9 lines of FILE1 on disc drive 0 and appends lines 10-20 to the primary output file.

\*COPY 15 FILE2 FILE3/1

replaces the contents of FILE3 on disc drive 1 with the first 15 lines of FILE2 on the system disc.

\*COPY 1000 FILE4 CONO

displays on the system terminal (CONO) the first 1000 lines of FILE4 on the system disc. If FILE4 contains fewer than 1000 lines, the message \*\* EOF is displayed after copying ends.

	SYNTAX	
CRT OFF		

#### PARAMETERS

ON	causes RUBO	UT to	backspace	over	the	deleted	character.
----	-------------	-------	-----------	------	-----	---------	------------

OFF causes RUBOUT to echo the deleted character.

#### **EXPLANATION**

The CRT command sets the value of the CRT flag.

If your system terminal is a TV-type device, you will probably want to leave the CRT flag at its initial value (ON). Users of hard-copy terminals may find it easier to keep track of deleted characters if they turn the CRT flag OFF.

The RUBOUT key is used to delete the last character typed from the input text or command line. Normally (CRT flag ON) RUBOUT also erases the deleted character from the screen and backspaces the cursor. Turning the CRT flag OFF causes RUBOUT to echo the deleted character on the terminal instead.

Entering the CRT command without a parameter reverses the value of the CRT flag.

#### EXAMPLES

Enter the following command line. (Each @ represents a RUBOUT.) \*INSERT 123456000

If you are using a hard-copy terminal, what you see depends on the type of terminal. A TV terminal would display:

\*INSERT 123

Now turn the CRT flag OFF and enter the same command line again: \*CRT OFF

\*INSERT 123456000

What you see is different...

\*INSERT 123456654

but the result is the same. Display the two lines entered:

\*UP.2:TYPE 2

Both lines are the same:

123 123

	SYNTAX
DEBUG OFF	

#### PARAMETERS

ON causes the workspace map to be displayed after every command. OFF suppresses display of the workspace map.

#### **EXPLANATION**

The DEBUG command sets the value of the DEBUG flag.

Normally (DEBUG flag OFF) the workspace map is not displayed. Turning the DEBUG flag ON causes the workspace map to be displayed every time a command is executed. Turning the DEBUG flag OFF suppresses the display.

Entering the DEBUG command without a parameter reverses the value of the DEBUG flag.

The workspace map shows the locations of the four areas of the workspace buffer: the workspace, the free area, the save area, and the macro area. You may want to check the map whenever you suspect that the workspace buffer is full or nearly full of text.

The map has the following format:

```
WSP pppp-tttt, FREE qqqq-rrrr, SAVE ssss, REL xxxx-yyyy ( z)
LCNT= m, CNUM= n (uuuu)
```

You may interpret the workspace map as follows:

The workspace buffer begins at address pppp and ends at address tttt.



There are m lines of text in the workspace.

The values pppp through uuuu are hexadecimal addresses in program memory; the locations they represent are shown on the diagram below.



#### **EXAMPLES**

Assume that the workspace contains the following text:

	THE U	USUAL NONSENSE	
	SOME	UNUSUAL NONSENSE	2
>	SOME	NONUSUAL UNSENSE	2
	SOME	UNUSABLE INCENSE	2

Enter the following command to turn the DEBUG flag ON:

#### \*DEBUG ON

Before prompting for another command, the editor checks the DEBUG flag. Because the DEBUG flag is ON, the editor displays the workspace map:

WSP 2324-9EB9, FREE 2379-9EB9, SAVE 9EB9, REL 2379-9EB9 ( 0) LCNT= 4, CNUM= 3 (234D)

From this map you can determine that the workspace occupies bytes 2324-2378 of program memory. Also, because the free area extends all the way to the end of the workspace buffer, you know that the save and macro areas are empty. There are four lines in the workspace, and the current line, line 3, begins at byte 234D.

Enter the following command to copy the workspace contents into the save area:

\*SAVE B-E WSP 2324-9EB9, FREE 2379-9E64, SAVE 9EB9, REL 2379-9EB9 ( 0) LCNT= 4, CNUM= 3 (234D)

Now the save area occupies bytes 9E65-9EB9. No other information has changed.

When you define a macro, the command line of the macro is stored in the macro area.

```
*MACRO1=TYPE B-E
WSP 2324-9EB9, FREE 2379-9E5A, SAVE 9EAF, REL 2379-9EB9 ( 0)
LCNT= 4, CNUM= 3 (234D)
```

The macro is saved in bytes 9EB0-9EB9, pushing the save area into bytes 9E5B-9EAF. The workspace is unaffected.

Note that as long as the DEBUG flag is ON, the workspace map appears every time a command executes. Enter the following command line:

```
*BEGIN: DOWN
THE USUAL NONSENSE
WSP 2324-9EB9, FREE 2379-9E5A, SAVE 9EAF, REL 2379-9EB9 ( 0)
LCNT= 4, CNUM= 1 (2324)
SOME UNUSUAL NONSENSE
WSP 2324-9EB9, FREE 2379-9E5A, SAVE 9EAF, REL 2379-9EB9 ( 0)
LCNT= 4, CNUM= 2 (2337)
```

The BEGIN command moves the workspace pointer to the first line, displays the new current line, and displays the workspace map. The DOWN command moves the pointer down to line 2, displays the line, and displays the workspace map.

Enter the following command line to turn the DEBUG flag OFF and display the current line:

\*DEBUG OFF:TYPE SOME UNUSUAL NONSENSE

#### SYNTAX

DOWN [number of lines]

#### PARAMETERS

number of lines number of lines the pointer moves down.

#### EXPLANATION

The DOWN command moves the workspace pointer the specified number of lines toward the end of the workspace.

If you do not specify a number of lines, the pointer moves down one line.

The new current line is displayed. To suppress the display, enter a period immediately after the command, before any space or number.

If moving the pointer the specified number of lines would place the pointer past the end of the workspace, the pointer stops one line below the last text line and the message \*\* END OF TEXT is displayed.

#### **EXAMPLES**

Assume that the workspace contains the following text:

A LINE A SECOND LINE HOW MANY LINES DO I HAVE? FIVE LINES

Enter the following command. The new current line is displayed.

\*DOWN 2 DO I HAVE?

The workspace now looks like this:

A LINE A SECOND LINE HOW MANY LINES DO I HAVE? FIVE LINES

# **SYNTAX** <u>ЕС</u>НО [OFF]

#### PARAMETERS

ON causes command file lines to be echoed on the system terminal.

OFF suppresses the command-line display.

#### **EXPLANATION**

The ECHO command sets the value of the ECHO flag.

When an editor command file is performed, each command line is first displayed on the system terminal and then executed. Turning the ECHO flag OFF causes the command-line display to be suppressed. Turning the flag ON reinstates the display.

Entering the ECHO command without a parameter reverses the value of the ECHO flag.

The ECHO flag is initially ON.

#### **EXAMPLES**

Assume that disc file SAMPLE contains the following text:

COM THIS LINE WILL BE PRINTED. ECHO OFF COM THIS LINE WON'T BE. ECHO:COM REVERSE THE ECHO FLAG FROM OFF TO ON. COM THIS LINE WILL ALSO BE PRINTED.

Execute the command file:

\*PERFORM SAMPLE

The following lines will be displayed on the system terminal:

\*COM THIS LINE WILL BE PRINTED. \*ECHO OFF \*COM THIS LINE WILL ALSO BE PRINTED.

#### SYNTAX

EDIT [ infile[/disc ]] [ outfile[/disc]] [ comfile[/disc]]

#### PARAMETERS

- infile name of the primary input file.
- outfile name of the primary output file.
- comfile name of the initial command file.
- disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

#### **EXPLANATION**

The TEKDOS command EDIT invokes the editor and specifies:

- the file that contains the text to be edited (the primary input file);
- the file on which the edited text will be saved (the primary output file);
- the file that contains a series of editor commands to be executed at the beginning of the editing session (the **initial command file**).

#### **Editing Options**

A typical editing session proceeds as follows:

- 1. Text is copied from the primary input file to the workspace with the commands GET, NEXT, or FNEXT.
- 2. Text in the workspace is modified with various editor commands.
- Text is copied from the workspace to the primary output file with the commands FILE, NEXT, or FNEXT.

You may add text to the workspace from sources other than the primary input file. The INPUT command allows you to enter text from the system terminal. The GET command is used to copy text from other files.

You may use the commands PUT or PUTK to save text from the workspace onto files other than the primary output file.

#### **Primary and Alternate Files**

.

Any file, other than the primary input file and the primary output file, may serve as an **alternate input file** (a file that provides text) or an **alternate output file** (a file that receives text).

The primary input file differs from alternate input files in the following ways:

- Copying from an alternate input file always begins at the beginning of the file. Copying from the primary input file generally begins at the primary input file pointer, which points to the line following the last line copied.
- An alternate input file must be specified by name in a GET or COPY command. The primary input file is the default input file for GET and COPY.
- The commands FILE, NEXT, and FNEXT can copy text only from the primary input file.

The primary output file differs from alternate output files in similar ways:

- Text copied to an alternate output file always replaces the previous contents of the file. (If the file did not exist, it is created.) Text copied to the primary output file is generally appended to the end of the file.
- An alternate output file must be specified by name in a PUT, PUTK, or COPY command. The primary output file is the default output file for PUT, PUTK, and COPY.
- The commands FILE, NEXT, and FNEXT can copy text only to the primary output file.

#### The Initial Command File

An editor command file contains a series of editor commands; these commands are identical to any that you may enter from the system terminal. You may specify an editor command file as the third parameter in the EDIT command line. The editor executes the commands from that file (called the **initial command file**) before accepting commands from the system terminal. If the editor encounters a FILE or QUIT command in the initial command file, the editing session ends.

#### **Useful Invocations**

The four useful forms of the EDIT command are described here. Each form may include or omit the optional third parameter. In the following discussion:

- oldfile represents any existing file;
- newfile represents a non-existent file;
- comfile represents the initial command file.

The two most commonly used forms of the EDIT command are **EDIT newfile** and **EDIT** oldfile. Two other invocations you may find useful are **EDIT** (no parameters) and **EDIT oldfile** newfile.

#### 1. EDIT newfile or EDIT newfile,,comfile

This invocation begins the editing session that creates disc file **newfile**. There is no primary input file. You may enter text from the system terminal or add text from alternate input files. The FILE command copies the text in the workspace to the primary output file, saves the primary output file under the name **newfile**, and ends the editing session.

#### 2. EDIT oldfile or EDIT oldfile,,comfile

This invocation begins an editing session that modifies disc file **oldfile**, which becomes the primary input file. A temporary primary output file is created. You may use the commands GET, NEXT, or FNEXT to bring text from **oldfile** into the workspace. You may modify the text in the workspace, bring in additional text from alternate input files, or copy text to alternate output files.

When you close the editing session with a FILE command, the edited version of **oldfile** is copied to the primary output file. The primary output file is saved under the name **oldfile**, and the primary input file is given a backup name, **oldfile**\*. If a file called **oldfile**\* already exists, that file is lost.

If you abort the editing session with a QUIT command, the primary output file is lost and the primary input file retains the name **oldfile**.

The "Backup Names" paragraph that follows explains how the editor chooses a backup name for the primary input file.

#### 3. EDIT or EDIT,,,comfile

You may use this invocation when you have no use for a primary input file or a primary output file (for example, when you are sorting out text among several files). All text must be entered from the system terminal or copied from alternate input files. The text must be saved on alternate output files. You must use the QUIT command to end the editing session.

#### 4. EDIT oldfile newfile or EDIT oldfile newfile comfile

This invocation allows you to create a modified version of **oldfile** on **newfile**. **Oldfile** is not affected. **Oldfile** is the primary input file and **newfile** is the primary output file. When you close the editing session with a FILE command, the edited version of **oldfile** is copied to the primary output file, **newfile**. If you abort the editing session with a QUIT command, **newfile** is lost.

Avoid any invocations other than these four.

#### Invocations to Avoid

If you specify an existing file as the primary output file, the editor responds \*\* SUPERSEDING EXISTING FILE. The previous contents of the file are lost unless you exit with a QUIT command before copying any text to the primary output file.

If you specify a non-existent file as the primary input file, the editor responds

- \*\* CANNOT READ NEW FILE
- \*\* PRIMARY INPUT

and designates no primary input file.

If you specify the same file as both the primary input file and the primary output file:

- If the file exists, the invocation is equivalent to EDIT oldfile.
- If the file does not exist, the editor responds
  - \*\* CANNOT READ NEW FILE
  - \*\* PRIMARY INPUT
  - \*\* SUPERSEDING EXISTING FILE

and designates neither a primary input file nor a primary output file.

#### **Backup Names**

The editor derives a name for a backup file as follows:

- 1. If the file name is one to seven characters long, an asterisk (\*) is added to the end.
- 2. If the file name is eight characters long, the last character is replaced with an asterisk.
- 3. If the file name is eight characters long **and** the last character is already an asterisk, the first character is replaced with an asterisk.
- 4. If the file name is eight characters long **and** both the first and last characters are asterisks, the backup file is not saved.

For example:

file name	backup name
NAME	NAME*
NAME*	NAME**
LONGNAME	LONGNAM*
LONGNAM*	*ONGNAM*
*ONGNAM*	(backup file lost)

#### EXAMPLES

#### > EDIT PROG;S

begins the editing session that creates or modifies file PROG;S on the system disc. If PROG;S already exists, it serves as the primary input file. When you close the editing session with a FILE command, the edited version (the primary output file) takes the name PROG;S and the old version (the primary input file) takes the name PROG;S\*. If PROG;S did not exist previously, there is no primary input file. When you enter the FILE command, the primary output file is saved under the name PROG;S.

> EDIT DIRTY CLEAN/1

begins the editing session that modifies text from file DIRTY on the system disc and stores the text in file CLEAN on disc 1. DIRTY is the primary input file and CLEAN is the primary output file. If CLEAN did not previously exist, it is created. If CLEAN already exists, the editor responds \*\* SUPERSEDING EXISTING FILE, and the current contents of CLEAN are lost unless you exit with a QUIT command before copying any text to the primary output file.
# END

# SYNTAX

# **EXPLANATION**

The END command moves the workspace pointer one line beyond the last line of text and displays the message \*\* END OF TEXT. To suppress the display, enter a period after the command.

### **EXAMPLES**

Assume that the workspace contains the following text:

Enter the following command to move the pointer one line past the last line of text. The editor displays the message \*\* END OF TEXT.

The workspace now looks like this:

ONE TWO I THINK I'M THROUGH

	SYNTAX	
ERROR OFF		

# PARAMETERS

ON reinstates display of the error pointer.

OFF suppresses display of the error pointer.

### EXPLANATION

The ERROR command sets the value of the ERROR flag.

Whenever an error is found during the interpretation or execution of a command, the editor displays an appropriate error message. Normally (ERROR flag ON) the command line is also displayed, with a pointer ( $\land$  or 1) below the last character of the illegal command or parameter. When the ERROR flag is turned OFF, display of the command line and pointer is suppressed. Turning the flag ON reinstates the display.

Entering the ERROR command without a parameter reverses the value of the ERROR flag.

The ERROR flag is initially ON.

#### EXAMPLES

Enter the following command line:

\*HELP ME!

The editor displays an error message, lists the command line, and points to the last character of the illegal command HELP.

\*\* UNKNOWN COMMAND \*\* HELP ME!

\* \*

Turn the ERROR flag OFF and enter the illegal command again:

\*ERROR OFF \*HELP ME!

Only the error message is displayed.

**\*\*** UNKNOWN COMMAND

FILE

# EXPLANATION

The FILE command ends a normal editing session, causing the following to happen:

- 1. The contents of the workspace are appended to the primary output file.
- 2. Any remaining text in the primary input file is appended to the primary output file.
- 3. If the name of the primary output file was not specified in the EDIT command line or was the same as the name of the primary input file:
  - a. The primary output file (to which the editor has given a temporary name) is given the name of the primary input file.
  - b. The primary input file is renamed to a backup file name, replacing the existing backup file, if any. The backup file name is formed by appending "\*" to the name of the primary input file. See the EDIT command for a complete explanation of how the editor derives a name for a backup file.

If neither a primary input file nor a primary output file was specified in the EDIT command line, then you must use the QUIT command to exit from the editor. If you were to enter a FILE command, the editor would respond \*\* NO OUTPUT FILE SPECIFIED and do nothing. The editor thus guards against accidental loss of the workspace contents.

#### **EXAMPLES**

Use the editor to modify system disc file PROG;S:

```
> EDIT PROG;S
** EDIT VERSION 3.0
* Edit the contents of PROG;S.
.
*FILE
** END OF TEXT
** EOF
*DOS* EOJ
>
```

Two versions of PROG;S now exist: unmodified (PROG;S\*) and modified (PROG;S).

FIND {/string/}

# PARAMETERS

/

string delimiter: any character except a space. The delimiter character must not occur in the string. Both delimiters must be the same character. If the delimiter character is a letter or period, a space must separate the command from the first delimiter. The final delimiter may be omitted if it is the last character in the command line.

string

the string of characters to be found.

### EXPLANATION

The FIND command searches for the specified string, beginning at the current line and proceeding toward the end of the workspace.

If the string is found, the workspace pointer moves to the line containing the string and the line is displayed. To suppress the display, enter a period between the command and the first delimiter.

If the string is not found, the workspace pointer does not move and the message \*\* NOT FOUND is displayed.

If you enter the AGAIN command to repeat a FIND command, the search begins one line down from the current line, so that the same line is not found again.

If a FIND command inside repeat brackets ("<" and ">") fails to find a match, execution resumes with the next command outside the brackets.

If you are using tab stops, remember that while each tab character in your text is displayed as one or more spaces, it is stored as a single character. To include a standard tab character in your search string, press the TAB key at the appropriate place in the command line.

See the XSEARCH command for an explanation of special search characters.

# **EXAMPLES**

Assume that the workspace contains the following text:

I THINK I SEE A LINE FOR ME

Enter the following command:

\*FIND/A/

The workspace pointer moves to line 3. That line is displayed.

A LINE

The workspace now looks like this:



The FIND command searches the text beginning at the current line. The search will fail if the search string does not occur in or after the current line.

\*FIND/THINK/ \*\* NOT FOUND

FNEXT {/string/}

### PARAMETERS

/

·

string delimiter: any character except a space. The delimiter character must not occur in the string. Both delimiters must be the same character. If the delimiter character is a letter or period, a space must separate the command from the first delimiter. The final delimiter may be omitted if it is the last character in the command line.

string

the string of characters to be found.

#### EXPLANATION

The FNEXT command searches from the current line through the workspace, then through the rest of the primary input file, until the string is found. When no match is found in the current contents of the workspace, they are appended to the primary output file and the workspace is filled to three-fourths of its capacity with text from the primary input file. The search then continues from the first line of the new workspace contents.

When a match is found, the line containing the specified string becomes the current line. That line may occur anywhere in the workspace.

If no match is found, the command is terminated. At that time, the workspace is empty and the primary input file is at its end.

If you enter the AGAIN command to repeat the FNEXT command, the search begins one line after the current line, so that the same line is not found again.

If an FNEXT command inside repeat brackets ("<" and ">") fails to find a match, execution resumes with the next command outside the brackets.

If you are using tab stops, remember that while each tab character in your text is displayed as one or more spaces, it is stored as a single character. To include a standard tab character in your search string, press the TAB key at the appropriate place in the command line.

See the XSEARCH command for an explanation of special search characters.

# **EXAMPLES**

If the search string occurs in the workspace at or after the current line, FNEXT acts the same as FIND. Assume that the following text is in the workspace:

NOT ME NOPE HERE I AM

Enter the following command: \*FNEXT/HERE/

The line containing the string "HERE" becomes the current line.

NOT ME NOPE HERE I AM

Now consider a case in which the text you want to edit is not in the workspace. Assume that the next line to be edited contains the string "DOWN HERE" and occurs toward the end of the primary input file. The diagram below shows the contents of the workspace and the primary files. Note the positions of the primary input file pointer and the workspace pointer.



Enter the following command:

\*FNEXT/DOWN HERE/

When the editor fails to find the string in the current workspace, it appends the workspace contents to the primary output file. Then it copies sections of text from the primary input file, through the workspace, to the primary output file, until the section that contains the string is brought into the workspace.

After execution of the command, this is what you have:



FSUBSTITUTE {/search string/new string/}

#### PARAMETERS

- / string delimiter: any character except a space. The delimiter character must not occur in either string. All three delimiters must be the same character. If the delimiter character is a letter or period, a space must separate the command from the first delimiter. The final delimiter may be omitted if it is the last character in the command line.
- search string the string of characters you want to replace.
- new string the string of characters that replaces the search string.

#### EXPLANATION

The FSUBSTITUTE command combines the functions of the commands FIND and SUBSTITUTE. Beginning at the current line, the editor searches the workspace for the search string. If the search string is found, the line that contains it becomes the current line and the new string replaces the search string. If no match is found, the message **\*\*** NOT FOUND is displayed and the workspace pointer remains at the same line.

The strings may be of different lengths. If the new string is empty, the search string is deleted.

After the substitution, the modified line is displayed. To suppress the display, enter a period between the command and the first delimiter.

If the modified line exceeds 127 characters, the line is truncated to 127 characters and the editor displays the message \*\* TRUNCATED along with the truncated line.

If an FSUBSTITUTE command inside repeat brackets ("<" and ">") fails to find a match, command execution resumes with the next command outside the brackets.

If you are using tab stops, remember that while each tab character in your text is displayed as one or more spaces, it is stored as a single character. To include a standard tab character in your search string or new string, press the TAB key at the appropriate place in the command line.

See the XSEARCH command for an explanation of special search characters.

### **EXAMPLES**

The following text is in the workspace:

yes yes yes yes yes NO NO NO yes yes NO

Enter the following command:

\*FS/NO/yes/

The first occurrence of the string "NO" is on line 3. That line becomes the current line and is displayed as modified:

yes NO NO

You may enclose an FSUBSTITUTE command in repeat brackets to make the same text substitution any number of times; however, be sure that the new string does not contain the search string. For example, the command line

5<FS/MAN/WOMAN/>

replaces the first occurrence of "MAN" with the string "WOWOWOWOWOMAN".

GET [number of lines] [input file[/disc]]

### PARAMETERS

number of lines number of lines to be read.

- range of lines range of lines to be read, for example 2-6. B, C, and E may **not** be used as line numbers in a GET command.
- input file name of the file or device from which text is copied. To specify the primary input file, omit this parameter.
- disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

#### **EXPLANATION**

The GET command reads text from a disc file into the editor workspace. The text is inserted before the current line. The workspace pointer does not move.

Copying ends when the specified lines have been copied or when the end of the input file is reached.

If neither a number of lines nor a range of lines is specified, one line is copied.

If an input file is specified, copying begins at the beginning of the file or at the first line in the specified range. You may **not** specify the primary input file by name, and you may not specify the primary output file at all.

If an input file is not specified, text is copied from the primary input file.

- If you specify a number of lines, copying begins at the primary input file pointer.
- If you specify a range of lines, those lines are copied, regardless of the position of the primary input file pointer.
- Afterward, in either case, the primary input file pointer is at the line following the last line copied.

# EXAMPLES

#### \*GET 30 FILE1

copies the first 30 lines of system disc file FILE1 into the workspace, inserting them before the current line.

# \*GET 10-20

copies lines 10-20 from the primary input file into the workspace, inserting them before the current line. Afterward, the primary input file pointer is at line 21.

#### \*GET

inserts the next line from the primary input file into the workspace. The primary input file pointer advances one line.

<u>INP</u>UT

# EXPLANATION

The INPUT command allows you to type any number of text lines into the workspace. INPUT places the editor in input mode. All text entered in input mode, up to (but excluding) the first empty line, is inserted into the workspace before the current line.

An empty line (carriage return only) terminates input mode, but a blank line (one or more spaces followed by a carriage return) is treated like any other text line.

The current line remains the same.

There is no prompt character in input mode.

If a text line exceeds 127 characters, the editor displays the message \*\* TRUNCATED. The line you entered is replaced with the text line \*\* TRUNCATED.

If an INPUT command is executed from a command file, the editor accepts text lines from the command file rather than from the keyboard. The command file must contain an empty line at the end of the input text. Although you cannot use INPUT or INSERT to create an empty line, you may use the following command line to insert an empty line after the current line:

\*XSEARCH ON:FS/>/>>/

#### EXAMPLES

To create text in an empty workspace, enter:

\*INPUT

The editor responds:

INPUT:

Enter the following lines:

DICE 3	3 PO'	TATOES	INTO	SAUCEPAN.
				SYRUP.
CHILL	15 1	MIN. B	EFORE	SERVING.

After terminating the third line with a carriage return, enter a second carriage return to terminate input mode.

The workspace now looks like this:

DICE 3 POTATOES INTO SAUCEPAN. ADD 1 CUP CHOCOLATE SYRUP. CHILL 15 MIN. BEFORE SERVING.

To insert text between lines 2 and 3, move the workspace pointer to line 3:

\*UP

The new current line is displayed. CHILL 15 MIN. BEFORE SERVING.

Add the following text:

\*INPUT INPUT: STIR BRISKLY 30 SEC. DRAIN OFF EXCESS SYRUP.

The workspace now looks like this:

DICE 3 POTATOES INTO SAUCEPAN. ADD 1 CUP CHOCOLATE SYRUP. STIR BRISKLY 30 SEC. DRAIN OFF EXCESS SYRUP. CHILL 15 MIN. BEFORE SERVING.

INSERT [text]

# PARAMETERS

text

any line of text. An INSERT command without text is interpreted as an INPUT command.

# **EXPLANATION**

The INSERT command inserts one line of text into the workspace immediately preceding the current line.

One or more spaces must separate the INSERT command from the text. The text may not begin with a space.

If the command line, including the text, exceeds 127 characters, the editor displays the message \*\* COMMAND INPUT ABORTED and the command line is lost.

#### EXAMPLES

Assume that the workspace contains the following text:

THERE WAS A LITTLE HEN AND SHE HAD A WOODEN LEG SHE COULD LAY MORE WOODEN EGGS THAN ANY HEN ON THE FARM ANOTHER LITTLE DRINK WON'T DO US ANY HARM

Enter the following command:

\*INSERT THE BEST LITTLE HEN THAT EVER LAID A WOODEN EGG

The workspace now looks like this:

THERE WAS A LITTLE HEN AND SHE HAD A WOODEN LEG THE BEST LITTLE HEN THAT EVER LAID A WOODEN EGG SHE COULD LAY MORE WOODEN EGGS THAN ANY HEN ON THE FARM ANOTHER LITTLE DRINK WON'T DO US ANY HARM

ſ	SYNTAX
	[number of lines] KILL [range of lines]

# PARAMETERS

- number of lines number of lines to be deleted, beginning with the current line.
- range of lines range of lines to be written, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.

# **EXPLANATION**

The KILL command deletes the indicated lines of text from the workspace.

If you do not specify a number of lines or a range of lines, only the current line is deleted.

The workspace pointer does not move unless the current line is deleted, in which case the first line after the deleted text becomes the current line.

# **EXAMPLES**

\*KILL deletes the current line.

\*KILL 10

deletes 10 lines beginning with the current line.

\*KILL 20-C

deletes all text between line 20 and the current line, inclusive.

	SYNTAX	
<u>L</u> IST	[number of lines] [range of lines]	

# PARAMETERS

number of lines number of lines to be listed, beginning with the current line.

range of lines range of lines to be saved, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.

# **EXPLANATION**

The LIST command lists the specified lines of workspace text on the line printer.

The workspace contents and pointer are not affected.

If neither a number of lines nor a range of lines is specified, only the current line is listed.

# **EXAMPLES**

\*LIST lists the current line.

١

\*LIST 10 lists 10 lines, beginning with the current line.

\*LIST 5-15 lists workspace lines 5 through 15. LN

### SYNTAX

### **EXPLANATION**

The LN command displays the line number of the current line and the number of lines in the workspace.

# EXAMPLES

Assume that the workspace contains the following text:

AS I WAS STANDING IN THE STREET, AS QUIET AS CAN BE, A GREAT BIG UGLY MAN CAME UP, AND TIED HIS HORSE TO ME.

Enter the following command:

### \*LN

The editor reports the current line number and line count.

00003 (00004)

MACRO [number [=[command line]]]

# PARAMETERS

number macro identification number: any integer from 1 to 127.

command line the command line represented by this macro.

### **EXPLANATION**

The MACRO command stores command lines that will be used repeatedly. MACRO is also used to execute those command lines, to list any presently defined macros, and to delete macros.

To define a macro, enter MACRO, the number, the equals sign, and the command line. Any macro definition previously associated with that number is lost. No spaces are necessary except those that are required by the commands in the command line.

To delete a macro, enter MACRO, the identifying number, and the equals sign.

To execute a macro, enter MACRO and the identifying number.

To list the macros you have defined, enter MACRO with no parameters.

A macro may invoke other macros, but not itself. A macro may not contain a macro definition.

A macro may not delete a macro or contain a perform command.

#### EXAMPLES

Enter the following command to define a macro that displays 10 lines and then advances the pointer 10 lines:

\*MACRO5=TYPE10: DOWN.10

If the workspace pointer is on line 14 and you enter MACRO5, lines 14 to 23 will be displayed. Since the TYPE command does not move the pointer, the DOWN command is used to move the pointer down 10 lines to the new current line, number 24. The current line is not displayed, since the period after the DOWN command suppresses the display.

To execute the macro, enter: \*<u>MACRO5</u>

To display all the macros you have defined, enter: \*MACRO

To delete macro 5, enter:

\*<u>MACR05</u>=

(number of lines) MOVE (range of lines ) [line number]

#### PARAMETERS

number of lines number of lines to be moved, beginning with the current line.

- range of lines range of lines to be deleted, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.
- line number line number of the destination line. B, C, or E may also be used if the text is to be inserted before the first line, current line, or end of workspace. E is the default destination line.

#### **EXPLANATION**

The MOVE command deletes the specified lines from their current position in the workspace and inserts them before the destination line.

If the destination line is not specified or does not exist, the lines are moved to the end of the workspace.

The workspace pointer remains pointing to the same line, even if that line moves.

#### **EXAMPLES**

Assume that the workspace contains the following text:



Enter the following command:

\*MOVE 3-5 8

Lines 3, 4, and 5 are inserted before line 8. The rearranged workspace is shown below. Notice that "TI" is still the current line, even though its line number has changed from 5 to 7.

DO RE MI FA SO LA TI DO

NEXT [number of lines]

#### PARAMETERS

number of lines number of new lines to be brought into the workspace.

# **EXPLANATION**

The NEXT command appends the workspace contents (if any) to the primary output file, clears the workspace, and copies the specified number of lines from the primary input file into the workspace.

If a number of lines is not specified, the workspace is filled to three-fourths of its capacity with text from the primary input file.

After the new lines have been brought into the workspace, the first line in the workspace becomes the current line and is displayed.

Any of the following messages may be displayed during normal execution of a NEXT command:

- END OF TEXT The workspace contents have been appended to the primary output file.
- WORKSPACE FULL Text from the primary input file has filled the workspace to full capacity, if a number of lines was specified, or to three-fourths of its capacity otherwise.

EOF The primary input file has been read to its end.

#### EXAMPLES

The following two command lines are equivalent:

\*NEXT 50 \*PUTK B-E:GET 50:BEGIN primary input file TWO THREE FOUR FIVE SIX Workspace ONE AND A HALF TWO TWO

Consider the following situation. (Note the position of the primary input file pointer.)

Enter the command:

\*NEXT 3

The workspace contents are moved to the primary output file; then the next three lines from the primary input file are brought into the workspace. The editor reports when the workspace has been cleared, then displays the new current line when copying is finished.

\*\* END OF TEXT THREE

After execution of the command, the files and workspace look like this:



		SYNTAX
<u>NU</u> MBER	ON OFF	

# PARAMETERS

- ON causes line numbers to accompany the displayed text.
- OFF suppresses the display of line numbers.

### **EXPLANATION**

The NUMBER command sets the value of the NUMBER flag.

The editor can display workspace text with or without line numbers. Normally (NUMBER flag OFF) line numbers are not displayed. Turning the NUMBER flag ON causes each line displayed to be accompanied by the number indicating that line's position in the workspace. Turning the NUMBER flag OFF suppresses the display of line numbers.

Entering the NUMBER command without a parameter reverses the value of the NUMBER flag.

### EXAMPLES

Assume that the following text is in the workspace:

Enter the following command:

\*TYPE 3

The editor displays three lines, beginning with the current line.

CLEAR THE ACCUMULATOR.

Now turn on line numbering and display the same three lines:

\*NUMBER ON \*TYPE 3

Line numbers are displayed.

- 4: CLEAR
- 5: THE 6: ACCUMULATOR.

**PERFORM** {command file[/disc]}

#### PARAMETERS

command file name of a file containing editor commands.

disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

### EXPLANATION

The PERFORM command causes the editor to begin executing commands from the specified file. When the end of the command file is reached or an error is detected, the editor prompts for a command from the system terminal. The editing session will terminate if a FILE or QUIT command is executed from the command file.

All the usual editor responses (prompt character, current-line display, text display, informative messages, error messages) are displayed on the system terminal. In addition, if the ECHO flag is ON, each command line is displayed before it is executed.

Commands following PERFORM on the same command line will not be executed.

A command file may contain any editor command except PERFORM.

The initial command file (specified by the third parameter of the EDIT command) is treated as if it has been started by a PERFORM command.

#### **EXAMPLES**

Assume that the BRIEF flag is OFF, the ECHO flag is ON, and the following text is in the workspace:

I DO NOT UNDERSTAND COMMAND FILES. I DO NOT LIKE COMMAND FILES. I DO NOT USE COMMAND FILES.

Disc file PEPTALK contains the following text:

BEGIN.:\*<FS/DO NOT //> END.:INSERT I'M OK; COMMAND FILES ARE OK. Execute the command file:

\*PERFORM PEPTALK

The first line of the command file moves the workspace pointer to the first line, then deletes all occurrences of the string "DO NOT". The second command line inserts a line at the end of the workspace. The editor responds as follows as it executes the command file:

*BEGIN.:* <fs do="" not=""></fs>	first command line echoed
I UNDERSTAND COMMAND FILES.	revised current line
I LIKE COMMAND FILES.	new current line
I USE COMMAND FILES.	new current line
** NOT FOUND	no more occurrences of the string
*END.:INSERT I'M OK; COMMAND	FILES ARE OK. second command line echoed ready for a command from the keyboard

The workspace now looks like this:

I UNDERSTAND COMMAND FILES. I LIKE COMMAND FILES. I USE COMMAND FILES. I'M OK; COMMAND FILES ARE OK.

PUT [number of lines] [output file[/disc]]

# PARAMETERS

number of lines number of lines to be written, beginning with the current line.

- range of lines range of lines to be listed, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.
- output file name of the file or device to which text is written. To specify the primary output file, omit this parameter.
- disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

#### **EXPLANATION**

The PUT command writes the specified lines of workspace text onto the specified file or device. The workspace contents and pointer are not affected.

If neither a number of lines nor a range of lines is given, only the current line is copied.

If no output file or device is specified, text is appended to the primary output file.

If an alternate output file is specified, its contents are replaced by the copied text. If the specified file did not previously exist, it is created. You may **not** specify the primary output file by name, and you may not specify the primary input file at all.

#### EXAMPLES

\*PUT

appends a copy of the current line to the primary output file.

\*PUT 1-20 FILEA/1

replaces the contents of FILEA on disc 1 with a copy of the first 20 lines in the workspace.

\*PUT 30 LPT1

lists 30 lines on the line printer, beginning with the current line.

 PUTK
 [number of lines]

 PUTK
 [range of lines]

 [output file[/disc]]

### PARAMETERS

number of lines number of lines to be written, beginning with the current line.

range of lines range of lines to be moved, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.

output file name of the file or device to which text is written. To specify the primary output file, omit this parameter.

disc number of the disc drive unit on which the specified file is stored. If no drive is specified, the system disc is assumed.

#### **EXPLANATION**

PUTK combines the functions of the commands PUT and KILL.

The PUTK command writes the specified lines of workspace text onto the specified file or device, then deletes those lines from the workspace.

The workspace pointer does not move unless the current line is deleted, in which case the first line after the deleted text becomes the current line.

If neither a number of lines nor a range of lines is given, only the current line is copied and deleted.

If no output file or device is specified, text is appended to the primary output file.

If an alternate output file is specified, its contents are replaced by the copied text. If the specified file did not previously exist, it is created. You may **not** specify the primary output file by name, and you may not specify the primary input file at all.

#### EXAMPLES

\*PUTK

appends the current line to the primary output file and deletes the line from the workspace. The next line becomes the current line.

#### \*PUTK 1-20 FILEA/1

replaces the contents of FILEA on disc 1 with the first 20 lines in the workspace and deletes those lines from the workspace. If the current line is among those deleted, the new first line (formerly line 21) becomes the current line.

\*PUTK 30 LPT1

lists 30 lines on the line printer, beginning with the current line, and deletes those lines from the workspace. The first line after the deleted text becomes the current line.

# QUIT

# EXPLANATION

The QUIT command aborts the editing session.

If the primary output file is a new file or a new version of the primary input file, the primary output file is deleted.

If the primary output file existed before the editing session began:

- If no text has been written to it in the current editing session (through commands such as COPY, FNEXT, NEXT, PUT and PUTK), it retains its original contents.
- Otherwise it contains only the text written to it during this editing session.

All changes made to alternate output files during this session are retained.

The primary input file remains unchanged, and its backup file (if any) is not deleted.

REPLACE {text}

# PARAMETERS

text

any line of text.

# **EXPLANATION**

The REPLACE command replaces the whole current line with the new text line specified. The workspace pointer does not move.

If the command line, including the text, exceeds 127 characters, the editor displays the message \*\* COMMAND INPUT ABORTED and the command line is lost.

One or more spaces must separate the command from the text. The text may not begin with a space.

The new line is displayed. To suppress the display, enter a period between the command and the space preceding the text.

### **EXAMPLES**

Assume that the current line is:

---- A LINE

Enter the following command:

\*REPLACE A NEW LINE

The new line is displayed:

A NEW LINE

	S	Υ	N	Т	A	Х	
--	---	---	---	---	---	---	--

SAVE [number of lines]

# PARAMETERS

number of lines number of lines to be saved, beginning with the current line.

range of lines range of lines to be displayed, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.

#### **EXPLANATION**

The SAVE command replaces the current contents of the save area (if any) with the specified lines of workspace text. The workspace contents and pointer are not affected.

If neither a number of lines nor a range of lines is specified, only the current line is saved.

The UNSAVE command retrieves saved text.

#### EXAMPLES

\*SAVE

replaces the contents of the save area with a copy of the current line.

\*SAVE 30-40

replaces the contents of the save area with a copy of workspace lines 30 through 40.

### NOTE

The workspace and the save area share the same section of memory in the editor. Storing a large section of text in the save aea may noticeably reduce the capacity of the workspace.

If you receive the message WORKSPACE FULL in response to a SAVE command, there is not enough space in the save area for the text you are storing. You can store the text on a disc file with a PUT command and retrieve it with a GET command instead of using SAVE and UNSAVE.

STATUS

# **EXPLANATION**

The STATUS command displays information about the current status of the editor.

#### **EXAMPLES**

Enter the command:

\*STATUS

The editor displays the following information:

STATUS						
PI = FILE1						
LINE 101						
PO = FILE1						
LINE 50						
LAST AI = FILE2						
LAST AO =						
COMMAND FILE =						
TAB CHARACTER = &						
TAB STOPS = $8 16$	24	32	40	48	56	64
BRIEF false						
CRT true						
DEBUG false						
ECHO true						
ERROR true						
NUMBER false						
UPARROW false						
XSEARCH false						
XTABS false						
CURRENT LINE:						
15 ( 60)						

This information can be interpreted as follows:

The primary input file (PI) is the current version of disc file FILE1. One hundred lines have been read from FILE1: the primary input file pointer is at line 101.

The primary output file (PO) is the new version of FILE1. Fifty lines have been written to the primary output file.

The last alternate input file (AI) read from (by a GET or COPY command) is FILE2.

No alternate output files have been written on.

There was no initial command file specified in the EDIT command line.

The tab character is &. The default tab stops are in effect.

All editor flags are at their default values. (TRUE is synonymous with ON; FALSE is synonymous with OFF.)

Workspace line 15 is the current line. There are 60 lines in the workspace.

/

# SYNTAX

SUBSTITUTE {/old string/new string/}

# PARAMETERS

string delimiter: any character except a space. The delimiter character must not occur in either string. All three delimiters must be the same character. If the delimiter character is a letter or period, a space must separate the command from the first delimiter. The final delimiter may be omitted if it is the last character in the command line.

old string the string of characters you want to replace.

new string the string of characters that replaces the old string.

### EXPLANATION

The SUBSTITUTE command searches the current line for the old string. If the old string is found, the new string replaces it. If the old string does not occur in the current line, the message **\*\*** NOT FOUND is displayed.

The workspace pointer does not move.

The strings may be of different lengths. If the new string is empty, the old string is deleted.

After the substitution, the modified line is displayed. To suppress the display, enter a period between the command and the first delimiter.

If the modified line exceeds 127 characters, the line is truncated to 127 characters and the editor displays the message \*\* TRUNCATED along with the truncated line.

If a SUBSTITUTE command inside repeat brackets ("<" and ">") fails to find a match, command execution resumes with the next command outside the brackets.

If you are using tab stops, remember that while each tab character in the text is displayed as one or more spaces, it is stored as a single character. To include a standard tab character in the old string or the new string, press the TAB key at the appropriate place in the command line.

See the XSEARCH command for an explanation of special search characters.

# **EXAMPLES**

Assume that the workspace contains the following text:

THIS IS A LINE. HERE IS ANOTHER.

Enter the following command:

\*SUBSTITUTE/A/A CHANGED/

The modified line is displayed:

THIS IS A CHANGED LINE.

Enter the following command:

\*SUBSTITUTE/HERE/THIS/

The editor responds:

\*\* NOT FOUND

To replace a string on a different line, you must use the FSUBSTITUTE command, described earlier in this dictionary.
# SYNTAX

SUSPEND

# **EXPLANATION**

The SUSPEND command suspends the editor. Control passes to TEKDOS and the prompt > is displayed. When you enter the TEKDOS command CONT \*, control returns to the editor. The editor prompts for another command or resumes execution of the command file in progress.

If you enter the TEKDOS command ABORT \* while the editor is suspended, the editing session is aborted as with a QUIT command.

#### SYNTAX

TAB {character}

# PARAMETERS

character the character to be used as the editor tab character. You may not specify the colon (:), less-than (<), greater-than (>), space, or carriage return.

#### **EXPLANATION**

The standard tab character is CTRL-I (ASCII code 09), which may be entered in one of two ways:

- Press the TAB key.
- Press the I key while holding down the CTRL (control) key.

The TAB command defines the **editor tab character**, which you may use as an alternative to the standard tab character. When you invoke the editor, the editor tab character is undefined. Each TAB command removes the significance of any previous editor tab character.

The editor tab character is like the standard tab character in most respects:

- When you type either tab character, that character is inserted into the line being entered and the cursor advances to the next tab stop.
- When text containing tab characters is displayed, spaces are inserted to align the text to the current tab stops.
- When text containing tab characters is saved on a file:
  - If the XTABS flag is ON, each tab character copied is expanded to the appropriate number of spaces.
  - If the XTABS flag is OFF, tab characters are copied unchanged.

Unlike the standard tab character, the editor tab character has no meaning outside the current editing session. TEKDOS routines such as ASM and MDL recognize only the standard tab character, and the editor does not remember the editor tab character from a previous editing session.

Since the standard tab character is not printable, you may find it easier to keep track of tabs in your text if you use a printable character as the editor tab character.

# EXAMPLES

Create three lines of assembly language source code using the percent sign (%) as the tab character:

\*TAB % \*INPUT INPUT: DEMO%LXI%H,500%; SET TABLE POINTER %MVI%B,5%; SET PASS COUNTER %XRA%A%; CLEAR ACCUMULATOR

Display the text you have created:

*TYPE B-E		
DEMO LXI	Н,500	; SET TABLE POINTER
MVI	В,5	; SET PASS COUNTER
XRA	A	; CLEAR ACCUMULATOR

In order to save the text with spaces instead of percent signs, you must turn the XTABS flag ON:

\*XTABS ON \*FILE \*\* END OF TEXT \*DOS\* EOJ

The following example shows how redefining the editor tab character affects your text. In this example, "t" denotes the standard tab character.

Assume that the workspace is empty and the editor tab character is undefined. Enter the following text:

\*INPUT INPUT: THISTISTATLINETOFTTEXT HERE%IS%ANOTHER A=BIG=WORD=OVERRIDES=TABS

Display the text you have entered:

*TYPE	B-E				
THIS	IS	Α	LINE	OF	TEXT
HERE%1	[S%ANO	THER			
A=BIG=	=WORD=	OVERRIDES	S=TABS		

Set the editor tab character to % and display the text again:

\*TAB % \*TYPE B-E THIS IS A LINE OF TEXT HERE IS ONE MORE A=BIG=WORD=OVERRIDES=TABS

Each % in the text is treated as a tab character.

Change the editor tab character to = and display the text again:

*TAB *TYPI	= E B-E				
THIS	IS	Â	LINE	OF	TEXT
HERES	BISBONE BI	MORE			
Α	BIG	WORD	OVERRI	DES	TABS

The % is no longer a tab character.

# SYNTAX

TABS {column} [column] . . .

#### PARAMETERS

column column number of the tab stop. Up to eight tab stops may be specified.

#### EXPLANATION

The TABS command eliminates all existing tab stops and defines up to eight new tab stops.

A column number may not be less than 1 or greater than 127.

Column numbers must be specified in ascending order.

When the editor is invoked, there are eight default tab stops set at 8, 16, 24, 32, 40, 48, 56, and 64 spaces from the left margin.

Tab stops are not retained from one editing session to the next.

Text is aligned according to the current tab stops, even if the text was created with different tab settings. If the original tab characters have been replaced by spaces, no realignment is possible. See the XTABS command.

# **EXAMPLES**

Set the editor tab character to % and enter the following text:

\*TAB % \*INPUT INPUT: THIS%IS%A LINE%OF TEXT THIS%%IS%ONE%MORE %HERE%IS%ANOTHER%ONE

Display the text using the default tab stops:

*UP.3:	TYPE 3			
THIS	IS	A LINE	OF TEXT	
THIS		IS	ONE	MORE
	HERE	IS	ANOTHER	ONE

If you specify new tab stops, all the old stops are lost. Enter the following command line:

\*TABS 10:TYPE 3

With only one tab stop, the text looks like this:

THIS	IS A LI	NE OF	TEXT
THIS	IS ONE	MORE	
	HERE IS	ANOTI	HER ONE

Note that any tab character beyond the last tab stop is displayed as a space, but remains unchanged in the text. Display the same text with some new tab stops:

*TABS	7 14	23 32:TYPE	3	
THIS	IS	A LINE	OF TEXT	
THIS		IS	ONE	MORE
	HERE	IS	ANOTHER	ONE

,

	SYNTAX	
[number of lines] TYPE [range of lines]		

# PARAMETERS

number of lines	number of lines to be displayed, beginning with the current line.
0	range of lines to be saved, for example 2-6. B, C, and E may be used to represent the first line, current line, and end of workspace, respectively.

# **EXPLANATION**

The TYPE command displays the specified lines of workspace text on the system terminal.

The workspace contents and pointer are not affected.

If neither a number of lines nor a range of lines is specified, only the current line is displayed.

### **EXAMPLES**

\*TYPE

displays the current line.

\*TYPE 10

displays 10 lines beginning with the current line.

\*TYPE 5-15

displays workspace lines 5 through 15.

#### SYNTAX

UNSAVE

### **EXPLANATION**

The UNSAVE command copies the contents of the save area into the workspace, inserting them before the current line.

The save area is not affected.

The current line remains the same.

### **EXAMPLES**

Assume that the following text is in the workspace:



Enter the following command:

\*SAVE 2

Two lines of text, beginning with the current line, are copied into the save area. The workspace remains the same. The save area contains the following text:

HE RAN AND

Enter the following command line:

\*UNSAVE: UNSAVE

Each UNSAVE command inserts a copy of the two saved lines in front of the current line. The workspace now looks like this:

WELL, HE RAN AND HE RAN AND HE RAN AND HE GOT VERY TIRED.

# SYNTAX

UP [number of lines]

#### PARAMETERS

number of lines number of lines the pointer moves up.

### **EXPLANATION**

The UP command moves the workspace pointer the specified number of lines toward the beginning of the workspace.

The new current line is displayed. To suppress the display, enter a period immediately after the command, before any space or number.

If you do not specify a number of lines, the pointer moves up one line.

If moving the pointer the specified number of lines would cause the pointer to go past the beginning of the workspace, the pointer stops at line 1.

#### **EXAMPLES**

Assume that the workspace contains the following text:

A LINE B LINE C D LINE E LINE IS THE NEXT TO LAST LINE

Enter the following command:

\*UP 2

The pointer moves up two lines and displays the new current line.

B LINE

The workspace now looks like this:

A LINE B LINE C D LINE E LINE IS THE NEXT TO LAST LINE

	SYNTAX	
UPARROW OFF		

# PARAMETERS

ON	assigns	the	uparrow	character	to	special	use	in	representing	control
	characte	ers.								

OFF removes the special significance of the uparrow character.

# EXPLANATION

The UPARROW command sets the value of the UPARROW flag. Turn the UPARROW flag ON when you want to display text containing control characters.

Normally (UPARROW flag OFF) the uparrow character ( $\land$  or 1) has no special significance to the editor. Turning the UPARROW flag ON allows any control character to be entered or displayed as an uparrow followed by a printable character. For example, the control characters NULL, BACKSPACE, and ESCAPE are represented as  $\land @$ ,  $\land H$ , and  $\land [$ . The ASCII code of the printable character (64 to 95) is equal to 64 plus the ASCII code of the control character (0 to 31).

All control characters except the carriage return and the current tab character can be represented using the uparrow.

When the UPARROW flag is OFF, the editor displays any control character as itself, and does not treat the uparrow character specially. How a control character is displayed depends on the display device and the control character.

Entering the UPARROW command without a parameter reverses the value of the UPARROW flag.

You may want to think of the uparrow as representing the CTRL (control) key. For example,  $\land$ A represents the control character CTRL-A,  $\land$ B represents CTRL-B, and so on. The 8002A  $\mu$ Processor Lab System Users Manual contains an ASCII-Binary-Decimal Conversion Table. Control characters occupy columns 1 and 2 of the table. Columns 5 and 6 contain the printable characters that may be used to represent the control characters.

# **EXAMPLES**

The following table shows how the editor stores the text you enter.

	What the editor stores					
What you type	UPARROV characters	V flag OFF ASCII codes	UPARROW characters	flag ON ASCII codes		
~[	(	94,91	(ESC)	27		
$\wedge \mathbf{G}$	∧G	94,71	(BELL)	7		
$\wedge \mathbf{g}$	∧g	94,103	∧g	94,103		
(CTRL-G)	(BELL)	7	(BELL)	7		

The following table shows how the editor displays the text it has stored.

What the	e editor stores	What the edi	• •
characters	ASCII codes	UPARROW flag OFF	UPARROW flag ON
(ESC)	27	depends on terminal	^[
(BELL)	7	depends on terminal	∧G
$\wedge \mathbf{G}$	94,71	∧G	∧G

Enter the following command:

\*INSERT THIS BELL GOES ^G^G

With the UPARROW flag OFF, all characters in the inserted text are stored just as they are. The ASCII codes for the last four characters stored are 94, 71, 94, 71. Now turn the UPARROW flag ON and insert another line of text.

\*UPARROW ON \*INSERT THAT BELL GOES ^G^G^G

This time, each  $\land$ G is stored as a single control character (BELL, ASCII code 7). Note that

ASCII(BELL) = ASCII (CTRL-G) = ASCII(G) - 64

Display both lines of text.

\*UP.2:TYPE 2

With the UPARROW flag ON, each BELL character is displayed as  $\wedge G$ .

THIS BELL GOES ^G^G THAT BELL GOES ^G^G^G

Now turn the UPARROW flag OFF again and display the two lines.

\*UPARROW OFF:TYPE 2

This time the exact contents of the lines are sent to the system terminal:

THIS BELL GOES ^G^G THAT BELL GOES (ding) (ding) (ding)

Each BELL character rings the bell on the system terminal.

	SYNTAX	
XSEARCH OF		

# PARAMETERS

ON enables the wildcard search feature.

OFF disables the wildcard search feature.

# **EXPLANATION**

The XSEARCH command sets the value of the XSEARCH flag.

When the XSEARCH flag is ON, the characters "?" and ">" have special meanings in search and replacement strings:

- In a search string, "?" matches any single character. In a replacement string, "?" stands for whatever character it matched in the search string.
- The character ">" signifies a carriage return, which is the last character in any line of text. The carriage return separates one line of text from the next.

Additionally, when the XSEARCH flag is ON, a search or replacement string may begin on one line of text and end on another.

When the XSEARCH flag is OFF, "?" and ">" have no special meanings, and strings are not considered to cross or include line boundaries.

Entering the XSEARCH command without a parameter reverses the value of the XSEARCH flag.

The XSEARCH flag is initially OFF.

### EXAMPLES

All of the following examples assume that the XSEARCH flag is ON.

#### SEARCH STRING EXAMPLES

\*FIND/A?C/

finds any three-character string beginning with "A" and ending with "C".

\*FIND/END.>/

finds a line ending with "END.".

\*FIND/>THE/

finds a line beginning with "THE". The line preceding that line becomes the current line, because the carriage return (>) belongs to the line preceding "THE".

\*FIND/>ALONE>/

finds a line containing "ALONE" and nothing else. The line preceding "ALONE" becomes the current line.

#### REPLACEMENT STRING EXAMPLES

\*SUB/A?/XYZ/

- deletes the "A" and whatever character follows it and substitutes the string "XYZ". \*SUB/A?C/X?Z/
- substitutes "X" for "A" and "Z" for "C" but leaves the character between them unchanged. \*SUB/ABC?/?ABC/
- moves the character matched by "?" from behind the string "ABC" to in front of it. \*SUB/A?C/A????C/

inserts three additional copies of the character between "A" and "C".

\*SUB/A??D/X????Y/

acting on the string "ABCD" results in "XBCBCBY".

\*SUB/AC/A?C/

inserts a question mark between "A" and "C".

\*SUB/NEW LINE/NEW>LINE/

inserts a carriage return between the words "NEW" and "LINE", making one line into two.

\*FSUB/NEW>LINE/NEW LINE/

combines two lines into a single line.

\*SUB/NEW>LINE/NEW LINE/

produces the response \*\* NOT FOUND because the SUBSTITUTE command stops searching at the first carriage return.

\*FSUB/>/>>/ inserts an empty line after the current line.



### PARAMETERS

ON specifies that tab characters are to be expanded to spaces on output.

OFF specifies that text is to be output with tab characters.

# EXPLANATION

The XTABS command sets the value of the XTABS flag.

When you use tab stops in creating text, each tab character you enter is stored in the text. When one of the following commands copies text from the workspace to a file or device, the editor checks the XTABS flag.

### FILE FNEXT NEXT PUT PUTK

If the XTABS flag is ON, each tab character copied is replaced with the number of spaces appropriate to the current set of tab stops.

If the flag is OFF, tab characters are copied unchanged.

Entering the XTABS command without a parameter reverses the value of the XTABS flag.

The XTABS flag is initially OFF.

A file containing standard tab characters is correctly processed by such TEKDOS routines as ASM and MDL, but may produce unexpected results if used as a command file or data file.

Since each tab character generally replaces several spaces, a file created with XTABS OFF usually occupies less disc space than the same file created with XTABS ON.

A file containing non-standard tab characters (defined with the TAB command) is usually useless. Turn the XTABS flag ON before saving text aligned with non-standard tab characters.

### **EXAMPLES**

In these examples "t" denotes the standard tab character.

Assume that the tab stops and XTABS flag are at their default values. The workspace contains four lines of assembly language:

tXRAtAt; CLEAR ACCUMULATOR LOOPtADDtMt; ADD BYTE FROM TABLE tINXtHt; POINT TO NEXT BYTE tDCRtBt; DECREMENT PASS COUNTER

The following command writes an exact copy of the workspace contents into FILE1:

\*PUT B-E FILE1

.

Now enter the following command line:

\*XTABS ON: PUT B-E FILE2

The PUT command copies the workspace contents to FILE2. Because the XTABS flag is ON now, each tab character is replaced by spaces up to the next tab stop.

Counting carriage returns, the workspace and FILE1 each contain 120 characters. FILE2 contains 180 characters and looks like this:

	XRA	А	; CLEAR ACCUMULATOR
LOOP	A DD	М	; ADD BYTE FROM TABLE
	INX	Н	, POINT TO NEXT BYTE
	DCR	В	; DECREMENT PASS COUNTER

# Section 4

# **TECHNICAL NOTES**

# NOTE 1. COMPARISON OF TEKDOS EDITOR VERSION 3.X WITH PREVIOUS VERSIONS

# Introduction

This technical note provides a list of the differences between the new version of the TEKDOS Editor and the previous versions. The new editor, version 3.X, offers extensions and improvements over the previous versions. Most of the commands in the previous versions are unchanged to minimize transition problems for those familiar with the previous versions. Many new commands have been added and some of the previous commands have been extended. Two commands have been given new names: N has been changed to LN, and ? has been changed to STATUS. The remainder of this technical note includes a general list and a command-by-command list of new and changed features.

# **New Features**

- The new version runs faster than the prevous versions.
- All of program memory, rather than only 16K, is used for the editor and the workspace.
- You can use the PERFORM command to execute editor command files that initialize the editing session, define macros, or perform frequently used command sequences.
- You may specify an initial command file in the EDIT command line. The specified command file is automatically executed at the beginning of the edit session.
- It is simpler, with the new commands NEXT and FNEXT, to edit files that exceed the size of the workspace.
- It is simpler, with the new commands FNEXT and FSUBSTITUTE, to search for and replace strings.
- It is simpler, with the new commands MOVE, SAVE, and UNSAVE, to move blocks of text.

- When an existing file is edited, the old version is saved as a backup.
- An extended search feature, controlled by the XSEARCH command, allows you to use wildcard characters in search strings, and to edit multiline strings.
- Tab characters may be stored unexpanded in files, to save disc space. The tabs may also be expanded to spaces, as in previous versions of the editor. The XTABS command controls the expansion of tab characters.
- Each error message indicates the command or parameter that caused the error.
- ·--->
- When a command within repeat brackets (< >) fails, only the command sequence within those brackets stops; command execution continues with the next command outside the brackets.
- Control characters may be entered and displayed more easily when the UPARROW feature is on.
- Lines are displayed with line numbers when the NUMBER feature is on.

# **Specific Command Changes**

AGAIN	Unchanged.
BEGIN	Unchanged.
BRIEF	Accepts boolean parameters ON and OFF. If no parameter is given, the BRIEF command operates the same as in previous versions.
COMMENT	New command. Precedes a comment in a command file.
СОРҮ	The primary input and output files are now used as default files if no alternate files or devices are specified.
CRT	New command. Controls the function of the RUBOUT key.
DEBUG	New command. Controls display of the workspace map.
DOWN	Unchanged.
ЕСНО	New command. Controls command display in an executing command file.
EDIT	An initial command file may be specified as an optional third parameter.
END	Unchanged.
ERROR	New command. Controls display of the error pointer.

FILE	Creates a backup of the primary input file. If no primary output file was specified when the editor was invoked, you may not use the FILE command to exit from the editor. If you attempt to exit, the message "NO OUTPUT FILE SPECIFIED" is displayed. You must then exit with the QUIT command.
FIND	Enhanced by the extended search feature. Accepts wildcard characters ">" and "?" when the XSEARCH feature is on.
FNEXT	New command. Searches the workspace and primary input file for a string.
FSUBSTITUTE	New command. Finds and replaces a string.
GET	Unchanged.
INPUT	Unchanged.
INSERT	Unchanged.
KILL	Unchanged.
LIST	Unchanged.
LN	Command name is changed from ${f N}$ in previous version.
MACRO	Unchanged.
MOVE	New command. Moves lines of text within the workspace.
Ν	Command name is changed to <b>LN</b> in new version. <b>N</b> is now the short form of <b>NEXT</b> .
NEXT	New command. Brings the next section of text into the workspace.
NUMBER	New command. Controls display of line numbers.
PERFORM	New command. Executes commands from a command file.
PUT	Unchanged.
PUTK	Unchanged.
QUIT	Unchanged.
REPLACE	Unchanged.
SAVE	New command. Saves lines of text in the save area.

STATUS Command name is changed from ? in previous version.

**SUBSTITUTE** Enhanced by the extended search feature. Accepts wildcard characters ">" and "?" when the XSEARCH feature is on.

SUSPEND Unchanged.

- TABTab characters are stored in the text unexpanded to save space. If the<br/>XTABS feature is on, each tab character is converted to the appropriate<br/>number of spaces when the text is stored in a file.
- TABS All previous tab stops are eliminated when new stops are defined.
- TYPE Unchanged.

UNSAVE New command. Retrieves the text in the save area.

- UP Unchanged.
- **UPARROW** New command. Controls the representation of control characters.
- XSEARCH New command. Controls the wildcard search feature.

**XTABS** New command. Controls expansion of tab characters when the contents of the workspace is output to a file or external device.

? Command name is changed to **STATUS** in the new version.

# Section 5

# **ERROR MESSAGES**

**ASSIGN PROBLEM (LIST command).** The channel reserved for the line printer (LPT1) is assigned to some other device or file. (The ASSIGN PROBLEM message may also occur as a submessage under the DOS STAT = xx message.)

**BOOLEAN?** The parameter ON or OFF was entered improperly after one of the following commands: BRIEF, CRT, DEBUG, ECHO, ERROR, NUMBER, UPARROW, XSEARCH, or XTABS.

BREAK. The ESCAPE key was pressed to terminate an editor function.

**COMMAND INPUT ABORTED.** An attempt was made to enter a command line longer than 127 characters; the entire line is lost.

**CANNOT NEST COMMAND FILES.** The command file being executed contains a PERFORM command.

CANNOT READ. A write-only file or device was specified for input.

**CANNOT READ NEW FILE**. A nonexistent file or wrong disc drive number was specified for input.

CANNOT WRITE. A read-only file or device was specified for output.

DISK FULL. The disc specified to receive output is full and cannot accept any more text.

**DOS STAT** = xx. A TEKDOS service call error occurred; the Service Calls section in your 8002A System Users Manual explains the SRB status code (xx). This message is followed by submessages that indicate more precisely where the error occurred.

**EMPTY SEARCH STRING.** The search string was missing, contained no characters between the delimiters, or was not terminated by a second delimiter identical to the first.

**END OF FILE.** The specified range of lines lies completely past the end of the file. This message may also be displayed when no error has occurred to inform you that the editor has read to the end of a file.

**END OF TEXT.** The specified range of lines lies completely outside the actual range of lines in the workspace. This message may also be displayed when no error has occurred to inform you that an editor function has reached the end of the workspace.

**ERROR (command line)**. Commands were not separated by colons or too many parameters were entered.

ERROR (MACRO command). The macro being executed contains a MACRO definition.

ERROR (REPLACE command). No text follows the REPLACE command.

**ERROR (TABS command).** A tab stop was specified out of ascending order, beyond the maximum line length (127), or with a number syntax error. The current tab settings are not altered.

FILE NAME TOO LONG. The specified file name contains more than eight characters.

**ILLEGAL MACRO NUMBER.** A macro number outside the range 1 to 127 was specified or a syntax error was made.

**ILLEGAL TAB CHARACTER.** An attempt was made to specify a colon (:), left repeat bracket (<), right repeat bracket (>), space, or carriage return as the editor tab character.

**MISSING DELIMITER.** A delimiter in an FSUBSTITUTE or SUBSTITUTE command was missing.

NEST. Repeat brackets (< >) were not entered in matching pairs.

**NEW FILE.** Informs you, upon invoking the editor, that you are beginning a new file; there is no primary input file to read data from. Also appears when you have created a new file with the COPY, PUT, or PUTK commands.

NO PI. No primary input file exists and no alternate input file was specified.

NO PO. No primary output file exists and no alternate output file was specified.

**NO SAVED TEXT.** An attempt was made to retrieve text from the save area but no text had been saved previously.

**NOT FOUND**. The string being searched for was not found within or beyond the current line. (The SUBSTITUTE command searches only the current line.)

**NUMBER NOT ALLOWED.** A numeric parameter was entered for a command that does not take a numeric parameter.

**NUMBER NOT FOLLOWED BY** <. A number was found that should have started a repeated command sequence, but was not followed by the left repeat bracket (<).

NUMBER? The line number parameter contained a syntax error.

**PROCEDURE ERROR.** A primary file was illegally specified as an alternate file.

**RANGE?** The range-of-lines parameter contained a syntax error.

**SUPERSEDING EXISTING FILE.** Warns that you have specified an existing file as the primary output file. The previous contents of the file will be lost if you do not terminate the editor with the QUIT command before copying any text to the primary output file.

**TRUNCATED.** An attempt was made to enter or create a text line longer than 127 characters. In an INPUT command, the line is lost and the message **\*\*TRUNCATED** replaces the lost text. In an FSUBSTITUTE or SUBSTITUTE command, the line is truncated to 127 characters.

UNKNOWN COMMAND. A nonexistent or misspelled command was entered.

**WORKSPACE FULL.** There is an insufficient amount of free area left in the workspace buffer to execute the latest editor command. To gain more free area, KILL or PUTK some workspace lines, delete some macros, or SAVE a smaller block of text. This message may also be displayed after the NEXT or FNEXT commands to inform you that the workspace has been filled to three-fourths of its capacity.

# Section 6

# GLOSSARY

Alternate Input File (AI). A file that provides text to be edited. It may be any text file other than the primary input file or the primary output file.

Alternate Output File (AO). A file that receives edited text. It may be any text file other than the primary input file or the primary output file.

**Command File**. A disc file containing editor command lines as text. When a command file is invoked by the PERFORM command, the command lines it contains are executed.

**Command Line.** A line of one or more editor commands. Multiple commands must be separated by colons (:). The line may not contain more than 127 characters.

**Current Line.** A line of text in the workspace that serves as a point of reference for many editor commands. The current line is pointed to by the workspace pointer, which may be moved to any line in the workspace.

Editor. The TEKDOS system program that allows a user to create and modify text files conveniently.

Editor Tab Character. See Tab Character .

Free Area. The area of the workspace buffer that is still available for use by the workspace, macro area, and save area.

**Initial Command File.** An editor command file that is automatically executed at the beginning of the edit session. The initial command file is an optional parameter of the EDIT command. See **Command File**.

**Macro.** A specially defined command line that may be executed by a short command rather than by typing in the whole line. Up to 127 macros may be stored in the macro area. Macros are defined and executed by the MACRO command.

**Macro Area.** The area of the workspace buffer that holds the macros defined by the user for the current editor session.

Primary Input File (PI). The default file from which text is read into the workspace to be edited. This file may be specified when the editor is invoked.

**Primary Input File Pointer.** A pointer maintained by the editor that points to the next line to be copied from the primary input file. The primary input file pointer points initially to the first line of the primary input file.

**Primary Output File (PO).** The default file into which edited text is stored from the workspace. This file may be specified when the editor is invoked.

**Program Memory.** The 8002A  $\mu$ Processor Lab memory used as a substitute for prototype memory in the early stages of prototype development (emulation modes 0 and 1). User programs run in program memory, as does the editor and certain other system programs.

**Repeat Brackets.** The characters "<" and ">" used as brackets to enclose a command sequence that is to be repeated.

**Save Area.** The area in the workspace buffer that stores the text copied from the workspace by the most recent SAVE command.

### Standard Tab Character. See Tab Character .

**Tab Character**. A character entered to instruct the editor to include spaces in a text line so that the next character of text is in a tab column. The standard tab character (CTRL-I, ASCII code 09) may be entered by pressing the TAB key, or by pressing the I key while holding down the CTRL key. An optional editor tab character, defined by the TAB command, may be used in place of the standard tab character, CTRL-I.

**TEKDOS.** The **TEK**tronix **D**isc **O**perating **S**ystem; the operating system of the 8002A  $\mu$ Processor Lab.

**Workspace.** The area of the workspace buffer that holds the text currently being edited. Most editor commands operate on the text currently in the workspace.

**Workspace Buffer.** The area of program memory used by the editor to store text. The editor program occupies about 9K bytes of program memory. The rest of program memory constitutes the workspace buffer. Each of four areas of the workspace buffer (workspace, free area, save area, and macro area) may vary in size, but the size of the workspace buffer remains constant.

**Workspace Map.** A two-line display produced by the editor that gives the size and location of each area of the workspace buffer. The command DEBUG ON causes the workspace map to be displayed after execution of each editor command.

Workspace Pointer. A pointer maintained by the editor that points to the current line in the workspace. See Current Line .

# Section 7

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