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TEN/PLUS User Interface Guide

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How To Use the TEN/PLUS User Interface Guide

INTRODUCTION

Welcome to the TEN/PLUS User Interface Guide. This guide contains the documentation you need to install, use, and customize the TEN/PLUS[®] User Interface. Before you begin to use the TEN/PLUS system, be sure to read the next few pages of this document. They will tell you what documents are contained in this guide and how to use the guide to your best advantage.

What's Included

The TEN/PLUS User Interface Guide includes:

• Overview of the TEN/PLUS User Interface Provides an introduction to the TEN/PLUS User Interface and describes the basic components that make up the system.

• TEN/PLUS Primer

Provides a tutorial introduction on how to create and edit files and directories and how to use the basic TEN/PLUS functions.

• TEN/PLUS Tutorial

Provides a detailed training guide for beginners who wish to learn how to use the TEN/PLUS system. The tutorial describes how to use three main features of the TEN/PLUS User Interface: the INed[®] editor, the File Manager, and the History Display.

• TEN/PLUS Reference Manual

Provides a detailed description of the components and functions of the TEN/PLUS User Interface.

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- TEN/PLUS Keyboard Information Describes how the TEN/PLUS functions are mapped to your keyboard.
- TEN/PLUS Profiles Provides a training guide for users who wish to learn how to use TEN/PLUS profiles to customize the TEN/PLUS system.
- TEN/PLUS User Interface Manual Entries INTERACTIVE's proprietary manual entries, which supplement the AT&T User's/System Administrator's Reference Manual.
- **TEN/PLUS User Interface Installation Instructions** Provides step-by-step instructions on how to install and configure the TEN/PLUS User Interface.
- Reader's Comment Form Provides you with a way to tell us what you like or dislike about this guide and to send us your ideas for making it even better.

Where to Begin

The *TEN/PLUS User Interface Guide* includes a variety of documents for users at varying levels of experience. Depending on your level of experience, you may want to use this guide in a number of different ways. The outline below provides some suggested ways to use this guide:

• If you are a beginner . . .

First, read the "Overview of the TEN/PLUS User Interface," then, depending on your needs, read through the "TEN/PLUS Primer" or the "TEN/PLUS Tutorial." If you want a quick introduction to the basic TEN/PLUS functions, try the "TEN/PLUS Primer." If you would like a more in-depth introduction to the TEN/PLUS system, work through the "TEN/PLUS Tutorial."

• If you are an experienced TEN/PLUS user ...

First, read the "Overview of the TEN/PLUS User Interface" to find out what's new in the TEN/PLUS system. Then you may wish to refer to the "TEN/PLUS Reference Manual," which offers concise descriptions of the TEN/PLUS functions and how to use them; or you may wish to refer to "TEN/PLUS Profiles" to learn how to customize your TEN/PLUS environment.

- If you are installing the system ... Read and follow the steps outlined in the "TEN/PLUS User Interface Installation Instructions." Once you have completed the basic system installation, refer to "TEN/PLUS Profiles" to learn how to customize your TEN/PLUS environment.
- If you want the latest system information Refer to TEN/PLUS RELEASE 2.2 ENHANCEMENTS in the "Overview of the TEN/PLUS User Interface." You'll find the newest TEN/PLUS features listed here.

Conventions Used

Throughout this guide, boxed words in capital letters indicate TEN/PLUS functions. For example, **PICK-UP** represents the function that picks up text. To use a TEN/PLUS function, touch the corresponding key or keys indicated on the keyboard template supplied with your system or refer to the appropriate section of "TEN/PLUS Keyboard Information" for a keyboard layout illustrating the locations of TEN/PLUS functions on your keyboard.

When you are instructed to type a command, the command must always be followed by using the **RETURN** key.

Keys on your keyboard may be labeled differently than those shown in this guide. For example, the <u>RETURN</u> key is labeled <u>ENTER</u> on some systems. If your hardware or software vendor supplies additional documentation with your system, read that documentation for information on key names before you continue with this guide.

Illustrations of computer screen displays, file names, directory names, and commands are printed in a typeface called constant width. Constant width text looks like the text produced by most typewriters. Whenever you are instructed to type anything shown in constant width in this guide, type it exactly as it is shown.

Italics indicate the variables in a command or instruction format. In actual use, a real name or number replaces the italicized text. For example, **ENTER** *filename* **USE** shows the format for switching to an alternate file for editing, where *filename* is replaced by the name of an actual file, such as memo. Italics are also used when new terminology is introduced, or for emphasis. Numbers preceded by the symbol § refer to section numbers within that document.

References of the form name(n) refer to an entry called *name* in section n of your reference manual or of the "TEN/PLUS User Interface Manual Entries" included in this guide.

FOR MORE INFORMATION

The documentation included in this guide provides information about how to install, use, and maintain the TEN/PLUS User Interface. For a complete listing of all $386/ix^{TM}$ -related documentation, refer to the "Documentation Roadmap" included in the 386/ixOperating System Guide.





Overview of the TEN/PLUS User Interface

INTRODUCTION

The TEN/PLUS[®] User Interface is a fully integrated user environment that makes the $386/ix^{TM}$ Operating System easy to learn and easy to use. The TEN/PLUS User Interface provides ten basic functions, plus a number of more advanced functions. The basic functions allow you to perform most tasks simply and productively, while the advanced functions permit you to gradually learn more complex tasks.

The TEN/PLUS User Interface runs on a wide range of computers including personal computers, multi-user micros, minis, and mainframes. You obtain the maximum power from your computer system in a way that is easy to use. The TEN/PLUS functions are consistent, which means it is not necessary to learn a new set of commands each time you use a new application or try a new task. The same command will have the same result, regardless of whether you are reading a mail message, writing a computer program, or updating your calendar. On some systems, TEN/PLUS functions are invoked solely through keys on the keyboard. On other systems, some TEN/PLUS functions and operations can be invoked by using a mouse. If your system is equipped with a mouse, consult the appropriate operating manual for specific instructions.

Who Can Use the TEN/PLUS User Interface?

The TEN/PLUS system is designed for virtually anyone who uses a computer – executives, secretaries, programmers, accountants, writers, and others. In a corporate setting, the TEN/PLUS system

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allows all employees to use the same environment, regardless of their job responsibilities, location, or the types of computers they are using. Employees may be transferred or promoted, and their duties may change, but the TEN/PLUS system provides them with the same, familiar computer environment wherever they go, reducing training time and increasing their productivity and flexibility.

TEN/PLUS USER INTERFACE FEATURES

The TEN/PLUS User Interface consists of five components: the INed[®] editor, the File Manager, the Profile Helper, the Print Helper, and the History Display. These are used to create, edit, and manage text files. Together, they provide a bridge to the UNIX[®] system, allowing users to perform basic functions without having to learn a lengthy set of UNIX system commands.

All functions that can be performed from the UNIX shell can be performed using one of the TEN/PLUS User Interface components. Since all five components use a system of menus and functions that allow the user to select a desired operation, it is rarely necessary to remember a specific UNIX command. The five components of the TEN/PLUS User Interface are described below.

INed Editor

INed is a screen-oriented text editor that allows users to display and edit text files. Users enter and edit text by typing on the display as they would on a typewriter. The display contains a window that can be divided into smaller windows for editing and examination of files. This feature can be used in conjunction with other functions to "pick up" text from one file and "put" it into another file or another portion of the same file. The INed editor provides a variety of functions to insert, delete, and move text on the screen. Other INed features include text processing, paragraph fill, right margin justification, and global replacement.

File Manager

The TEN/PLUS File Manager allows users to create, access, move, copy, and delete files. The File Manager uses the same functions as the INed editor. Files are picked up and moved, or copied and

moved, using the same INed functions that perform these operations on lines of text. The File Manager is easy to use because there are no UNIX commands to remember.

Profile Helper

The TEN/PLUS Profile Helper allows users to customize the editing environment to suit individual needs. It can be used to help the editor locate forms, helpers, messages, and forms language scripts, as well as to add, change, or delete the options on certain menus. The Profile Helper uses forms to build custom menus that simplify operations in the TEN/PLUS environment. Custom menus allow the user to perform routine tasks by selecting options from menus.

Print Helper

The TEN/PLUS Print Helper allows users to print a file by selecting an option from the Print Menu. The options on the Print Menu can be customized by editing the print profile. Like the Profile Helper, the Print Helper uses forms to build the custom Print Menu. The custom Print Menu simplifies printing operations in the TEN/PLUS environment by giving the user a choice of menu options for printing a file.

History Display

The TEN/PLUS History Display provides a way to keep track of changes made to structured files. It displays a form detailing information about previous changes to a file and allows the user to view and/or copy any previous version. The History Display uses menus and forms to implement its functions. History Display functions are accessed by positioning the cursor at the desired option on the menu or form and using a function. Like the File Manager, it does not require knowledge of any specific commands.

TEN/PLUS RELEASE 2.2 ENHANCEMENTS

Release 2.2 of the TEN/PLUS User Interface features the following enhancements:

• Variable-Size Window Displays

On some systems, TEN/PLUS displays expand to match the size of the terminal window. When accessed in large windows, TEN/PLUS displays automatically adjust in size. Text files expand both vertically and horizontally; form files adjust vertically. When accessed in windows smaller than the standard TEN/PLUS display, the full TEN/PLUS display can be viewed using the window-positioning functions.

• Variable-Size Displays for 386/ix MultiView

When used in combination with 386/ix MultiView, the TEN/PLUS editor uses the variable-size display feature to produce an editor window that matches the size of the MultiView window. A simple TEN/PLUS command sequence (ENTER REFRESH) allows the user to adjust the size of the TEN/PLUS window to match any change in the size of the MultiView window. The -autoresize option provides for the automatic adjustment of the TEN/PLUS editor window to match any change in the size of the 386/ix MultiView window.

• Improved Menu Instructions

TEN/PLUS menus have been improved to include clearer and more detailed instructions for the user. This feature provides the user with a more accessible interface to the TEN/PLUS system.

FOR MORE INFORMATION

The TEN/PLUS User Interface is supported by a complete set of documentation. For a complete listing of all 386/ix-related documentation, refer to the "Documentation Roadmap" included in the 386/ix Operating System Guide.





TEN/PLUS Primer

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TEN/PLUS Primer

INTRODUCTION

What Will I Learn From This Primer?

This primer will introduce you to the ten basic *functions* of the TEN/PLUS[®] environment, and will show you how to:

- Create and store documents, such as memoranda, letters, reports, and tables.
- Retrieve documents.
- Revise documents.
- Set up new filing systems.
- Perform a number of complex tasks, such as moving information between documents.
- Print documents.

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GETTING STARTED

To use the TEN/PLUS system, you must turn on your computer or terminal and *log in*. At the login: prompt, you will type in a user identification that has been assigned to you, followed by **RETURN**. After your user identification has been received by the system, you may be prompted for a password. If you have been assigned a password, type it at the Password: prompt, followed by **RETURN**. (The system will not display the password on the screen.) If you have not been assigned a password, use **RETURN** if you see a Password: prompt.

Your system may be installed so that a TEN/PLUS screen will automatically appear when you log in. If the system displays a prompt such as \$ or % when you log in, access the TEN/PLUS environment by typing e \$HOME, followed by **RETURN**. If you are still unable to enter the TEN/PLUS environment, ask the person responsible for installing the system to help you.

Place your *keyboard template* in a convenient location so you can refer to it as you read this primer. If you do not have a keyboard template, see the person responsible for installing the TEN/PLUS system.

Your Home Directory

The first screen you see when you log in to the system is usually your *home directory*. You can think of your home directory as a master list or index of the information you are storing on the computer. A *directory* is similar in function to a file cabinet: a file cabinet has several drawers, each of which can contain many folders, each holding one or more documents. This is very useful for organizing your files.

Your home directory can contain subdirectories (folders) that hold related files (documents) and other subdirectories. For example, you can have a subdirectory called letters, which contains all the outgoing letters you've written. The letters subdirectory can also contain a number of other subdirectories, one for each of your major projects. For example, there could be a quik.sell subdirectory under letters, which contains all the letters related to the QuikSell project. Here is a typical home directory listing:



If you are a new user, your home directory may not show any *files* because you have not yet created any. Take a moment to study the display shown above, paying particular attention to the labels identifying specific elements on the screen. (Some screens may differ in minor ways.)

The *cursor* is a pointer to where the next character will appear. As you type, each character appears at the cursor position, and the cursor moves one space to the right. Entering text is similar to typing with a typewriter. However, in most cases in the TEN/PLUS system, when you reach the right-hand margin, the cursor and the word being typed move automatically to the next line. This feature is called *word wrap*. You can, of course, end a line before you reach the right-hand margin by using **RETURN**. **RETURN** moves the cursor to the beginning of the next line.

The File *field* contains the names of the files and directories stored in the displayed directory. A file usually contains a single document, such as a report or a memorandum. A directory is also a file, but it is a special type of file that can contain other files.

The Description field allows you to supply a short description of the file or directory.

You should limit file and directory names to 10 characters. File names can contain any characters other than], [, *, ?, /,

and space. File names must not start with a hyphen (-) or a plus (+).

The *full file name* completely describes the location of the file in the system. Slashes are used to separate directory names and filenames. The full file name is displayed at the bottom of the screen and when you attempt to create a new file.

Using ZOOM-IN and ZOOM-OUT

You can use the TEN/PLUS functions **ZOOM-IN** and **ZOOM-OUT** to move around within a directory structure. **ZOOM-IN** moves you to a lower level in the directory structure and **ZOOM-OUT** moves you to a higher level. To move from a directory to a file or directory in the next lower level, position the cursor on the line on which the file or directory is listed and **ZOOM-IN**. To move from a file or directory to the directory in the next higher level, **ZOOM-OUT**. It does not matter where the cursor is positioned in the file or directory when you **ZOOM-OUT**.

Using the Cursor-Positioning Functions

The cursor-positioning functions move the cursor on the screen. In addition to **RETURN** (discussed in a previous subsection), the most frequently used cursor-positioning functions are \square , \square , \square , and \square ; they move the cursor down, up, right, and left, respectively. You can also use **BACKSPACE** to move the cursor to the left, but, unlike \square , **BACKSPACE** erases characters as it moves. **BACKSPACE** is used to correct typing errors.

TAB moves the cursor to the next tab stop on the right, while -TAB moves the cursor to the previous tab stop on the left. On most terminals, the cursor-positioning functions repeat automatically. Holding down the key(s) for any of these functions will result in continuous cursor motion until the keys are released. You can use the cursor-positioning functions to place the cursor anywhere on the screen, including on any previously typed character, as well as on the borders of any field. (If you place the cursor on such a border and attempt to type there, you'll get an error indication, usually a "beep.")

CREATING DOCUMENTS

You can create documents (also called files) in any of your directories, including your home directory. Suppose you want to create a file called status, with the description Current Sales Status, and that you want this file to be in your home directory. To create the file, move the cursor to the first blank line on your home directory screen. Type the file name, status, in the File field. Use **TAB** or one of the other cursor-positioning functions to move the cursor to the Description field, then type Current Sales Status:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.
File	Description
status	Current Sales Status_
/usr/larry	INSERT Line 1 (1)

Now refer to your keyboard template to locate the key or keys used to **ZOOM-IN**, and then **ZOOM-IN**. The TEN/PLUS system determines that a file named status does not exist in your home directory, and shows you a menu with four options:



The options shown allow you to create an ASCII file, a structured file, or a directory, or to reenter the file name in case you mistyped it. Usually, you will create ASCII files, which are ordinary text files. The examples in this primer use only directories and ASCII files. Structured files allow users to keep a record of different versions of a document, and to recreate any prior version. Structured files are particularly useful when you need to look at past versions of a document, such as a legal contract or a business plan. Many TEN/PLUS applications, such as the TEN/PLUS Mail System, use structured files. (Refer to section 2 of the "TEN/PLUS Reference Manual" in this guide for more information about file types.)

With the cursor on the option Create an ASCII file (without history), use **EXECUTE**. After a brief pause, a blank window appears:

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You have just created a file with the short name status. The line at the top of the screen is a "ruler" showing the positions of the left- and right-hand margins (1 and r) and of the tab stops (t). (Instructions for changing margins and tab stops appear later on in this primer.)

Type some text into your new file. When you complete the last line on the screen, the text will *scroll* forward (up), bringing in additional blank lines at the bottom of the screen. You can also scroll forward by using either +PAGE or +LINE to move beyond the area displayed on the screen. +PAGE scrolls text forward by one screen, and +LINE scrolls text forward by approximately one-third of a screen. Similarly, -PAGE and -LINE scroll text backward (down).

Use **ZOOM-OUT** to move from the status file back to your home directory. It does not matter where the cursor is positioned in the file when you **ZOOM-OUT**.

USING HELP AND CANCEL

HELP provides details about menus and *popup boxes*. Use **HELP** whenever you are uncertain about what to do. Either a popup box with additional instructions or a menu of options will appear on your screen.

CANCEL allows you to remove menus and popup boxes from your screen. For example, if you decide that you do not want to create a new file, use **CANCEL** when the file creation menu appears. This causes the menu to be removed from the screen.

To see how **HELP** and **CANCEL** work, **ZOOM-IN** to the status file, and then **ZOOM-IN** again. The message Cannot zoom in any further appears in a popup box. Use **HELP**. The error message is explained in more detail in another popup box. Use **CANCEL** to remove the popup boxes.

CREATING DIRECTORIES

You can create directories using the same procedure that you used to create new files. Create a directory called practice in your home directory. Type practice in the File field of your home directory, then **TAB** to the Description field and type Practice Files Directory:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.
File	Description
status practice	Current Sales Status Practice Files Directory_
/usr/larry	INSERT Line 2 (2)

Now **ZOOM-IN**. The file creation menu appears. Select the option to create a directory. After a brief pause, a blank directory screen appears:

	Move	the	INTE Cursor	RACTIV	VE TE n ite	N/PLUS m below	FILE	MANAGE ZOOM-I	R N to	see	it.		
File						Des	crip	tion					
-													
usr/larry/	pract	ice				INSE	RT	Line		1 (0)	

Now you can type in the names and descriptions of your practice files, and use **ZOOM-IN** to create them, just as you created the status file in your home directory.

EDITING FILES AND DIRECTORIES

The TEN/PLUS environment offers a range of editing tools based on the use of six TEN/PLUS functions:

PICK-UP	PUT-DOWN
PICK-COPY	PUT-COPY
INSERT	FORMAT

Using PICK-UP and PUT-DOWN

PICK-UP is used with **PUT-DOWN** to move text. To see how this is done, create the file priorities in the practice directory. Enter this text into the file:

1 t t t ÷ ÷ ÷ ÷ t t r Priority list of tasks to be accomplished before Account Group meeting. Obtain cost figures for three inventory profiles Review copy for ad campaign Memo to George about comments for ad campaign Write outline for presentation **Reminder -- follow up on getting projection charts from Art Department usr/larry/practice/priorities INSERT Line 11 (11)

To move the line Write outline for presentation to the top of the list, position the cursor on that line and use **PICK-UP**. The entire line is picked up and disappears from the screen:

1 t t t t t t t t t r Priority list of tasks to be accomplished before Account Group meeting. Obtain cost figures for three inventory profiles Review copy for ad campaign Memo to George about comments for ad campaign **Reminder -- follow up on getting projection charts from Art Department usr/larry/practice/priorities 9 (10) INSERT Line

Note that **PICK-UP** picks up the entire line, regardless of where the cursor is positioned, and moves the subsequent lines up. To move the line to the top of the list, position the cursor on the line Obtain cost figures for three inventory profiles, then use **PUT-DOWN**:

1	t	1	t	t	t	t	t	t	t	t	r
	Priority	list of	f tasks	to be a	ccomplis	hed befo	re Accou	nt Group	meeting	•	
	Write outline for presentation Obtain cost figures for three inventory profiles Review copy for ad campaign Memo to George about comments for ad campaign **Reminder follow up on getting projection charts from Art Department										
	sr/larry.	/practi	ce/prio	rities		INSERT	Line	6 (11)]

You can also transfer information from one file to another by using **PICK-UP** and **PUT-DOWN** in conjunction with **ZOOM-IN** and **ZOOM-OUT**. First, **ZOOM-IN** to a file and **PICK-UP** the line you want. Then, using **ZOOM-OUT** and **ZOOM-IN**, as appropriate, access the directory containing the file into which the line is to be placed. **ZOOM-IN** to this file and use **PUT-DOWN** to insert the line where you want it. You have just seen how to **PICK-UP** and **PUT-DOWN** one line of text at a time. You can use **PICK-UP** several times in succession, followed by **PUT-DOWN** the same number of times, to move several lines of text at one time. (Refer to section 4 of the "TEN/PLUS Tutorial" in this guide to learn how to pick up several lines of text in a single operation.) **PICK-UP** can also be used to delete text—simply **PICK-UP** that text and do not put it down.

Using PICK-COPY and PUT-COPY

PICK-COPY and **PUT-COPY** are similar in function to **PICK-UP** and **PUT-DOWN**. However, **PICK-COPY** leaves the original line where it was, and only picks up a copy. **PUT-COPY** allows you to put down several copies of the last line picked up by using either **PICK-UP** or **PICK-COPY**.

Create a file named copiers in your practice directory, then enter this text:

1 t t t t t t t t ŧ. r Evaluation chart for buying new copier BRAND COST SPEED QUALTTY SERVICE Hybrid-II \$2,300 100 per min. B+ A --Has enlargement/reduction features, LED displays. Paper refill easy, toner refill somewhat clumsy. INSERT Line 10 (10) usr/larry/practice/copiers

In this example, you typed in information about one brand of copier, Hybrid-II. To use the same headings (BRAND, COST, SPEED, QUALITY, SERVICE) to begin a new section for another brand, move the cursor to the heading line and use **PICK-COPY**. Then move the cursor to where you wish to start typing your evaluation of the second brand, and **PUT-DOWN** the copy:

1	t	t	t	t	t	t	t	t	t	r
Evaluation chart for buying new copier										
BRAN	D	COST		SPEED		QUALITY		SERV:	ICE	
Hybr	Hybrid-II \$2,300		100 pe	er min.	B+		A -			
	Comments: Has enlargement/reduction features, LED displays. Paper refill easy, toner refill somewhat clumsy.									
BRAN	D	COST		SPEED		QUALITY		SERV:	ICE	
/usr/larry/practice/copiers INSERT Line 14 (14)										

In this example, you could have used **PUT-COPY** instead of **PUT-DOWN** to continue putting copies of the heading at the beginning of each new section, without having to use **PICK-COPY** each time. **PUT-COPY** inserts a copy of the same line until you pick up another line by using either **PICK-UP** or **PICK-COPY**.

PICK-UP, **PUT-DOWN**, **PICK-COPY**, and **PUT-COPY** can also be used to move, copy, and delete entire files and directories. For example, you can delete a file or directory from a directory by placing the cursor in either field on the line where the file is listed and using **PICK-UP**.

Deleting a directory deletes all files and directories in that directory!

You can transfer a file from one directory to another, perhaps from your home directory to another directory containing several related files. This procedure is similar to that for transferring data between files. Use **ZOOM-IN** and/or **ZOOM-OUT** to access the directory containing the file you wish to transfer. Position the cursor on the line where the file is listed, and **PICK-UP** the file; move to the destination directory and **PUT-DOWN** the file. You can also use this procedure to move directories.

<u>PICK-COPY</u> and <u>**PUT-COPY**</u> can be used to copy-rather than move-files and directories. For example, you might want to maintain a master version of a form letter that can be copied and completed as needed. Position the cursor on the line where the file is
listed and use **PICK-COPY**. Next, move to the destination directory and use **PUT-DOWN**. If you copy a file into its original directory, a popup box appears, asking you to give the copy a new name. This is because two files in the same directory cannot have the same name. Type a new file name (for example, form.ltr2) in the popup box and use **EXECUTE**.

Using FORMAT and INSERT

Two other basic TEN/PLUS functions are **FORMAT** and **INSERT**. They are used to format text between the current margins, and to insert space for new text.

Create the file memo in your practice directory, then enter the text as shown:

1 ÷ + t ŧ. ÷ ÷ ÷. ÷ ÷ r Ellen: I wanted to solicit your thoughts about the possibility of Lisa attending the Sales Conference next week. I know that she's working on getting the display materials ready for the TransCorp presentation next month, but if you could spare her, I think it would be a valuable experience for her internship and an asset to us if we hire her upon graduation. One of the problems with a lot of MBAs when they get out of school is that they don't have a good feel for the personal side of business. I think it would be good for Lisa to get some of this exposure. What do you think? Will the TransCorp schedule permit? 14 (13) /usr/larry/practice/memo INSERT Line

The body of this example can be split into two paragraphs to make it more readable. Move the cursor to the O in the word One on the fifth line of the paragraph, then use the space bar until the phrase One of the has been moved to the next line:

1	t	t	t	t	t	t	t	t	t	r
Ellen	:									
I want the Sa displa you co intern <u>O</u> ne of proble have a good f Transo	ted to so ales Cor ay mater buld spa nship ar the ems with a good f for Liss Corp sch	olicit y ference rials rea re her, d an ass a lot c eel for a to get medule pe	our thou next week dy for the I think set to us of MBAs when the persons some of the ermit?	ghts abo k. I kr he Trans it would if we h hen they onal sid this exp	but the po now that a scorp pred be a val hire her u y get out le of bus posure.	ossibili she's wo sentatic luable e upon gra of scho iness. What do	ty of L: orking of m next nexperience duation ool is th I think you thin	isa atter n getting month, bu ce for he hat they it would nk? Will	nding y the at if er don't i be L the	
/usr/la	arry/pra	actice/mo	emo		INSERT	Line	e 10	(14))	

If touching the space bar does not move the text to the right, read the section "Alternating Between Insert and Overwrite Modes" later on in this primer.

Use a blank line to separate paragraphs. With the cursor on the line One of the, use **INSERT**. A blank line is inserted:

1	t	t	t	t	t	t	t	t	t	r
Ellen:										
I wante the Sal display you cou interns	d to sol: es Confei materia: ld spare hip and a	icit you rence ne ls ready her, I an asset	r though kt week. for the think it to us i	ts about I know TransCo would b f we hir	the pos that sho rp prese e a valu e her up	sibility e's work ntation able exp on gradu	of Lisa ing on go next mon erience : ation.	attendi etting t th, but for her	ng he if	
One of problem have a good fo TransCo	the s with a good fee: r Lisa to rp schedu	lot of 1 l for th o get so ule perm	MBAs whe person me of th it?	n they g al side is expos	et out o of busin ure. Wh	f school ess. I at do yo	is that think it u think?	they do would b Will t	on't e he	
/usr/lar	ry/pract	ice/memo			INSERT	Line	10 (15)]

You can use **INSERT** to insert as many blank lines as you wish. For example, you can use **INSERT** to insert space for new paragraphs, or to reserve space for diagrams on a printed copy of a file.

In the above example, the second paragraph needs to be reformatted because it begins with a short line. Position the cursor on the short line and use **FORMAT**. **FORMAT** reformats text to fit within the current margins:

÷. ŧ. ŧ. ÷. ÷ ٠ ŧ. ŧ. t. r Ellen: I wanted to solicit your thoughts about the possibility of Lisa attending the Sales Conference next week. I know that she's working on getting the display materials ready for the TransCorp presentation next month, but if you could spare her, I think it would be a valuable experience for her internship and an asset to us if we hire her upon graduation. <u>O</u>ne of the problems with a lot of MBAs when they get out of school is that they don't have a good feel for the personal side of business. I think it would be good for Lisa to get some of this exposure. What do you think? Will the TransCorp schedule permit? /usr/larry/practice/memo INSERT Line 11 (14)

FORMAT reformats text from the current cursor position to the next blank line. Be sure to leave one or more blank lines between paragraphs as you type. Otherwise, **FORMAT** will run all of your paragraphs together!

USING MENUS

The TEN/PLUS environment includes two functions, **MENU** and **LOCAL-MENU**, that simplify the way you perform more complex tasks.

Using MENU

MENU offers a menu, called New Task Menu, that provides a number of general-purpose options. Your New Task Menu displays the same options regardless of which file or directory you are looking at. Here is a typical example of a New Task Menu:

Move	INTERACTIVE TEN/PLUS FILE MANAGER the cursor to an item below and ZOOM-IN to see it.
File	Description
priorities copier memo ^	Priorities for the Account Group Meeting Copier evaluations Letter to Ellen about Lisa
Move the curs Touch CANCEL Show home di Display the Read or send Show your pr Edit your ed Housekeep Display hist	New Task Menu or to an item and touch EXECUTE. to do nothing, HELP for help. rectory current date and time mail ofiles directory itor profile ory of current file
/usr/larry/prac	tice INSERT Line 3 (3)

The options on your New Task Menu may differ somewhat from those displayed above. You can easily add or remove options from your New Task Menu. (Refer to section 2 of "TEN/PLUS Profiles" in this guide for additional information about changing your New Task Menu.) The New Task Menu displayed above contains these options: Show home directory Returns you to your home directory, regardless of where you are in the directory structure.

Display the current date and time Displays the current date and time in a popup box. (Use CANCEL to remove the box.)

Read or send mail

Displays your mailbox if the TEN/PLUS Mail System is available on your computer.

Show your profiles directory

Displays your profiles directory so you can view or edit your TEN/PLUS profiles.

Edit your editor profile

Displays your editor profile, which is used to customize your editing environment. (Refer to "TEN/PLUS Profiles" in this guide for information about changing your editor profile.)

Housekeep

Removes all versions of files except the current version.

- You must use Housekeep periodically (say, once a day) to prevent various files from growing too large and wasting storage space.
- Display history of current file Displays a list of all versions of the current file.

To select an option from this or any other menu, position the cursor on the desired option and use **EXECUTE**, or use any of the functions (1) through (8), depending on the number that corresponds to the line on which your choice is listed. For example, to select Show your profiles directory from the default New Task Menu, use (4), since this is the fourth option on the menu. Use **CANCEL** to remove a menu from the display.

Using LOCAL-MENU

LOCAL-MENU is similar to **MENU**, except that it displays a menu of options that apply specifically to the type of information or to the application you are using at the moment. (Refer to the "TEN/PLUS Tutorial" in this guide or to the appropriate application guide for more information about specific local menus.) Here is a sample local menu for an optional TEN/PLUS application, the TEN/PLUS Mail System:

```
Subject: Forwarded: First thoughts on the QuikSell account
TO:
         larry
  Cc:
         brian
  Bcc:
                                                      Date: 18 Apr 1984 0957-PDT
From:
         Janet Brown
 I have extracted the juiciest parts here ... let me know what you think.
             Electronic Mail
                                                 they want to accomplish with
 Move the cursor to an item and touch EXECUTE.
                                                soon with a couple of
 Touch CANCEL to do nothing, HELP for help.
                                                t down here my best
                                                 notes of my own on things we
  (1) Mail this message
                                                ls. Also, I have included
  (2) Reply to this message
                                                orrespondence from the
  (3) Forward this message
                                                 a better idea of what has
  (4) Delete this message
                                                u have looked at all of this.
  (5) Restore deleted message
                                                questions you may have about
  (6) File this message in another mailbox
                                                roach that will have a very
   (7) Show in-box and add new mail
                                                 if our proposals are very
  Size: 150 Lines
                   Sent by: janet at RALEIGH
                                                          Status:
                                                           6 ( 150)
/usr/larry/mbx/1
                                        INSERT
                                                  Line
```

If you use **LOCAL-MENU** when looking at a directory, this menu will appear:

INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it. File Description Priorities for the Account Group Meeting priorities copiers Copier evaluations Letter to Ellen about Lisa memo Move the cursor to desired action and touch EXECUTE. To do nothing, touch CANCEL. For help, touch HELP. (1) Display "visible" files (2) Display all files Return to normal directory display _ _ _ (4) Show details about files (5) Show more details about this file Show more details about this file ---/usr/larry/practice INSERT 3 (3) Line

This local menu is seldom used in simple applications. It is explained in detail in section 5 of the "TEN/PLUS Tutorial" in this guide.

MORE ABOUT EDITING

In addition to the basic TEN/PLUS functions, several other editing functions are also quite useful. They are used to change margins and tab stops, to provide alternate methods for modifying or editing existing text, to find a specific word or phrase in a file, and to move text between files. The sections below explain how to use these functions, as well as how to print your documents.

Changing Margins and Tabs

Up to now, you have used the *default* margins and tabs that are set automatically. You can change these margins and tabs at any time.

To change the left margin, position the cursor where you wish the new left margin to be and use <u>MARGIN</u>. The 1 on the ruler on the top line moves to the new left margin. To type an indented paragraph, for example, move the left margin in, type the paragraph, and then move the left margin back to its original position.

To change the right margin, position the cursor where you wish the right margin to be and use **ENTER**, then **MARGIN**. The r on the ruler on the top line moves to the new right margin.

You may have occasion to type a line or lines of text that extend beyond the right-hand border of the screen. To do this, you will need to change the right-hand margin to a column greater than 77 (the default column position for the right margin). You can use **<u>RIGHT</u>** to bring into view a portion of the file (approximately onethird of the width of the screen) that extends beyond the right-hand border. Using <u>**RIGHT**</u> again will bring another such portion into view. Bring as much of the file into view as necessary to reset the right-hand margin. The maximum setting of the right-hand margin is column 200.

Similarly, you can use **LEFT** to bring into view a portion of the file (if any) that extends beyond the left-hand border.

You can use **BEGIN-LINE** to move the cursor to the leftmost character of the current line, and **END-LINE** to move the cursor one position to the right of the rightmost character of the current line.

To set a new tab stop, position the cursor at the desired column and use $\boxed{SET-TAB}$. To remove a tab stop, use \boxed{TAB} to position the cursor on that stop, then use \boxed{ENTER} followed by $\boxed{SET-TAB}$.

Alternating Between Insert and Overwrite Modes

Until now, you typed text while in insert mode. When insert mode is in effect, new text is inserted at the cursor position, and existing text is moved to the right or word-wrapped to the next line. The word INSERT on the bottom line of the screen indicates that insert mode is in effect.

On the other hand, new text replaces existing text as you type when overwrite mode is in effect. The word OVERWRITE replaces the word INSERT on the bottom line of the screen.

You can switch between insert and overwrite modes with **INSERT-MODE**. If you are in insert mode, **INSERT-MODE** places you in overwrite mode; conversely, if you are in overwrite mode, **INSERT-MODE** places you in insert mode.

INSERT-MODE is independent of **INSERT**. **INSERT-MODE** is used to switch between insert and overwrite modes, while **INSERT** is used to insert blank lines in a file or directory.

Using +SEARCH, -SEARCH, and BREAK

On occasion, you may want to quickly locate a word or phrase in a file. To search for a word or phrase, starting at the current cursor position and continuing to the end of the file, use **ENTER**, type the word or phrase you wish to find, then use **+SEARCH**. The system searches for an exact character match. For example, a search for the word sales will find sales, but not Sales, because the small s and the capital S are different characters. If there is no matching word or phrase, a message will appear in a popup box. If the search is successful, the cursor will be positioned on the matching word or phrase. You can then search for the next occurrence of the same word or phrase by simply using **+SEARCH** again.

You can also search backward through the file, starting at the current cursor position and continuing to the beginning of the file. To search backward use **-SEARCH** instead of **+SEARCH**.

You can interrupt a search operation by using **BREAK**. For example, if you discover after using either +SEARCH or -SEARCH that you made an error while typing the word or phrase to be found, you can use **BREAK** to stop the search operation.

Using USE

As you have seen, you can move through the directory structure to a specific file by using **ZOOM-OUT** and **ZOOM-IN**, as appropriate. Because you are able to see the directory and file names at the various directory levels, you do not need to remember the full name of a file in order to access it.

You can, however, use another method to access a specific file directly, if you know its exact name. Use **ENTER**, type the name of the desired file in the popup box, and use **USE**. **USE** brings the desired file onto the screen. At this point, you have established what is known as an alternate file. Now every time you use **USE**, the system will alternately display the original file and the alternate file.

To directly access another file, or to establish a new alternate file, simply use $\boxed{\text{ENTER}}$, type the name of the new alternate file, and use $\boxed{\text{USE}}$. Once you have established an alternate file, you may move text between the original file and the alternate file by using $\boxed{\text{PICK-UP}}$ or $\boxed{\text{PICK-COPY}}$ in one file, then $\boxed{\text{USE}}$, and then $\boxed{\text{PUT-DOWN}}$ or $\boxed{\text{PUT-COPY}}$ in the other.

Printing Documents

To print a document, **ZOOM-IN** until its contents are visible, then use **PRINT**. A menu appears, listing the print options available on your system.

To print a document on your default printer, position the cursor at the option Print on default printer, and use **EXECUTE**. (Refer to section 3 of "TEN/PLUS Profiles" in this guide for additional information about the Print Menu.)

FOR MORE INFORMATION

This concludes your introduction to the TEN/PLUS environment. The TEN/PLUS environment consists of the TEN/PLUS User Interface, described briefly in this primer, as well as optional development tools and applications, such as the TEN/PLUS Mail System. After you have learned the basic TEN/PLUS functions, you may want to know more about advanced TEN/PLUS functions and capabilities, such as the ability to display and work with several files ("windows") at the same time. The "TEN/PLUS Tutorial" in this guide reviews the ten basic functions and describes in detail various advanced functions available in the TEN/PLUS User Interface. Refer to the "TEN/PLUS Reference Manual" in this guide for more information about specific TEN/PLUS User Interface capabilities.

SUMMARY OF TEN/PLUS FUNCTIONS

This section summarizes the ten basic functions, as well as a number of additional functions, that are available with the TEN/PLUS system. Many of these functions can be modified or enhanced when used with other functions. For detailed descriptions of these functions, and of other functions available with the TEN/PLUS system, refer to the "TEN/PLUS Tutorial" and to the "TEN/PLUS Reference Manual" in this guide.

The Ten Basic Functions of the TEN/PLUS System

ZOOM-IN	Displays a more detailed level of information.
ZOOM-OUT	Displays a less detailed level of information.
PICK-UP	Removes the current line and saves it until it is PUT-DOWN .
PUT-DOWN	Inserts, at the current cursor position, the last line picked up.
PICK-COPY	Picks up a copy of the current line and moves the cursor down one line.
PUT-COPY	Inserts, at the current cursor position, a copy of the last line picked up.
INSERT	Inserts a blank line at the current cursor position.
FORMAT	Formats the current paragraph within the current margins. The previous, unformatted version of the paragraph is available with RESTORE .
MENU	Displays the New Task Menu.

LOCAL-MENU

Displays a menu of options specific to the current application or to the type of information you are using.

Some Additional TEN/PLUS Functions

	Move the cursor up, down, right, or left.
BACKSPACE	Corrects typing errors by erasing characters.
BEGIN-LINE	Moves the cursor to the leftmost character of the current line.
BOX-MARK	Marks lines or rectangular blocks of text for copying, inserting, or deleting. Can be used with cursor-positioning and other TEN/PLUS functions, such as PICK-UP , PICK-COPY , INSERT , and DELETE .
BREAK	Stops +SEARCH and -SEARCH.
CANCEL	Removes an error message or popup box from the display.
CENTER	Centers the current line between the current margins.
DELETE	Deletes the current line. The deleted line can be restored with RESTORE .
DELETE-CHARACTER	Deletes the character at the current cursor position.
END-LINE	Moves the cursor one space to the right of the rightmost character of the current line.
ENTER	Enhances or modifies many TEN/PLUS functions, such as PICK-UP , PICK-COPY , INSERT , and DELETE . For example, ENTER 5 PICK-UP picks up five successive lines of text. The "TEN/PLUS Tutorial" in this guide describes all the capabilities of ENTER .

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EXECUTE	Invokes options that appear in menus or "help" popup boxes. Cursor-positioning functions are used to place the cursor at the option to be EXECUTE d.
EXIT	Exits from the TEN/PLUS environment, saving all changes made to files during this editing session, or since the last SAVE .
FUNCTIONS	Displays a menu showing which of the ten basic TEN/PLUS functions are active and allows you to select one.
GO-TO	Displays the beginning of the file and posi- tions the cursor on the first line. If the cursor is already on the first line of the file, <u>GO-TO</u> displays the end of the file and positions the cursor on the last line of the file. <u>ENTER</u> <u>GO-TO</u> always displays the end of the file and positions the cursor on the last line of the file. <u>ENTER</u> line- number <u>GO-TO</u> moves the cursor to that line of the file. For example, <u>ENTER</u> 47 <u>GO-TO</u> displays the portion of the file that contains line 47 and positions the cur- sor on that line.
HELP	Displays information relevant to the current situation.
HOME	Moves the cursor to the upper left-hand corner of the display.
INSERT-MODE	Alternates between insert and overwrite modes.
LEFT)	Brings into view a portion (approximately one-third of the width of the screen) of the file that extends beyond the left-hand border.

+LINE	Scrolls the text forward (up) approxi- mately one-third of the screen at a time. ENTER n +LINE scrolls the text for- ward n lines. For example, ENTER 3 +LINE scrolls the text forward three lines.
-LINE	Scrolls the text backward (down) approxi- mately one-third of the screen at a time. ENTER n -LINE scrolls the text back- ward n lines. For example, ENTER 4 -LINE scrolls the text backward four lines.
MARGIN	Sets the left-hand margin at the current cursor position. ENTER MARGIN sets the right-hand margin.
+PAGE	Scrolls the text forward (up) a full screen at a time. ENTER n +PAGE scrolls the text forward n full screens. For example, ENTER 2 +PAGE scrolls the text for- ward two full screens.
-PAGE	Scrolls the text backward (down) a full screen at a time. ENTER n -PAGE scrolls the text backward n full screens. For example, ENTER 3 -PAGE scrolls the text backward three full screens.
PRINT	Displays a menu of print options.
REFRESH	Redraws the screen display.
RESTORE	Restores, at the current cursor position, the most recently DELETE d text.
RETURN	Moves the cursor to the beginning of the next line.
RIGHT	Brings into view a portion (approximately one-third of the width of the screen) of the

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file that extends beyond the right-hand border.

SAVESaves all changes made to files during this
editing session, or since the last SAVE.

+SEARCH Searches forward through the file for a specified word or phrase. For example, **ENTER** Sam **+SEARCH** searches for the next occurrence of the word Sam; subsequent occurrences of Sam can be found by using **+SEARCH** alone.

-SEARCH Searches backward through the file for a specified word or phrase. Like +SEARCH, -SEARCH can be used alone to find subsequent occurrences of the word or phrase.

SET-TABSets a tab stop at the current cursor position.ENTERSET-TABstop at the current cursor position.

Moves the cursor to the next tab position on the right.

Moves the cursor to the previous tab position on the left.

Marks text for copying, inserting, or deleting. Can be used with cursor-positioning and other TEN/PLUS functions, such as **PICK-UP**, **PICK-COPY**, **INSERT**, and **DELETE**, to manipulate multiline sentences and nonrectangular text regions.

Used with **ENTER** to directly access another file. Also used to switch back and forth between two files.

USE

TAB

-TAB

TEXT-MARK

GLOSSARY

ASCII file

An ordinary text file. ASCII stands for "American Standard Code for Information Interchange," and refers to the way characters are represented in a computer.

cursor

A cursor is a pointer on your screen to where the next action will take place. When typing, the cursor indicates the position where the next character will appear. When using a TEN/PLUS function, the cursor indicates the line or paragraph on which that function will operate.

cursor-positioning functions

The functions that permit you to move the cursor from one position to another. Examples are TAB, -TAB, (\uparrow) , (\downarrow) , (\leftarrow) , (\rightarrow) , and **RETURN**.

default

The option that will be chosen for you by the system if you do not make a choice. For example, margins and tabs are set automatically by the system, so that you do not have to set them every time you access a file. You can, however, change many of these settings at will. Also, if your computer system has several printers, and you print a document, it will be printed on the default printer unless you select another one.

directory

A TEN/PLUS directory contains documents or files, and/or other directories. A typical directory contains related documents, such as memoranda or monthly sales reports.

field

A location in a file or form that is reserved for a single piece of information. For example, a personnel file might include separate fields for an employee's name, address, Social Security number, and so on. Each TEN/PLUS directory screen has two fields, File and Description. file

A document or a collection of information stored on the computer. For example, a file could be a phone list, a memorandum, or a report.

full file name

The full file name of the file completely describes the location of the file in the system. It is also called a "full path name." It is made up of directory names and file names, separated by slashes. The full file name is displayed at the bottom of the screen and when you attempt to create a new file.

function

A way of performing an often complex operation with one or more keystrokes, which usually saves you from having to perform a series of steps.

home directory

The directory that contains the "master list" or index of the information you are storing on the computer.

keyboard template

An illustration of a keyboard, that indicates the locations of the keys used to invoke functions.

log in

Activate your computer or terminal to gain access to your information.

popup box

A small box on your screen that displays instructions or error messages.

scroll

Move text off of the display so that you can see the preceding or following text. When you reach the bottom of the screen while typing, TEN/PLUS automatically scrolls the text forward, so that you always have a place for the next line. When you are reading a document, you can scroll text forward (up) one screen at a time by using +PAGE, or one-third of a screen at a time by using +LINE. Similarly, you can use -PAGE and -LINE to scroll text backward (down).

structured file

A special type of file available in the TEN/PLUS environment. TEN/PLUS keeps information about structured files that allows you to look at previous versions of those files.

word wrap

A feature that eliminates the need for you to use $\boxed{\textbf{RETURN}}$ at the end of each line. When a word you are typing extends past the right-hand margin, the entire word is moved to the left-hand margin of the next line.

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TEN/PLUS Tutorial

1. INTRODUCTION

1.1 Scope of This Tutorial

This tutorial is a self-paced training guide for beginners who wish to learn how to use the TEN/PLUS® system to create, edit, and manage text files. It is designed for users having no system management responsibilities. Use of this tutorial requires that the TEN/PLUS User Interface has been installed and is available for use.

This tutorial introduces the basic components of the TEN/PLUS User Interface and describes how it provides a bridge to the UNIX® operating system. It explains procedures for entering, exiting, and reentering the TEN/PLUS system that facilitate moving back and forth between the TEN/PLUS system and the UNIX shell. It details only the fundamental UNIX commands, such as those used for logging in and logging out. Refer to your user's manual for detailed information about UNIX commands.

This tutorial is designed as an introduction to the TEN/PLUS User Interface and does not provide a complete reference to all of its extensive facilities. Refer to the "TEN/PLUS Reference Manual" [1] for more detailed information about available commands. Refer to other sections of this tutorial for information about editing and formatting documents.

1.2 Overview of This Tutorial

This tutorial describes the three main features of the TEN/PLUS User Interface: the INed[®] editor, the File Manager, and the History Display. The sections included are:

1. INTRODUCTION

This section provides a general overview of the tutorial.

2. GETTING STARTED

This section describes how to start up and log in to the TEN/PLUS system. It introduces the INed editor and teaches the user to:

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create a file use the keyboard

scroll within a file modify functions access the HELP facilities ZOOM-IN to a file ZOOM-OUT of a file access existing files

This section ends with information about exiting the TEN/PLUS system and logging out.

3. TYPING AND FORMATTING TECHNIQUES

This section explains techniques for formatting text. It describes how to change margins and tabs, center and align text, and access alternate fonts.

4. BASIC EDITING TECHNIQUES

This section covers techniques for inserting, deleting, moving, copying, and searching for text. It also explains how to delete, copy, and move blocks of text, columns, and sentences.

This section ends with a discussion of two procedures (an alternate file approach and a multiple window approach) used to access several files during the same editor session. These procedures facilitate copying or moving text between different files, or between different portions of the same file.

5. USING THE FILE MANAGER

This section describes how to use the File Manager to manipulate files and directories. It explains procedures for copying, deleting, combining, moving, and renaming files and directories. It also describes how to change permissions on files and directories either to limit or give access to others for reading and editing. An explanation of how directories are structured is provided along with a description of how to create and remove directories.

6. STRUCTURED FILES AND THE HISTORY DISPLAY

This section describes TEN/PLUS structured files and explains briefly why many of the TEN/PLUS functions and features can be used only on structured files. It explains how to convert files from structured to ASCII and ASCII to structured. This section also introduces the History Display utility. It explains how to use the History Display to recall previous versions of structured files.

7. ADDITIONAL FUNCTIONS

This section contains both system and editor information. The emphasis, however, is on using UNIX filters from within the INed editor. UNIX filters, used to modify text while using the editor, facilitate such functions as global replacing, sorting, and justifying.

This section also describes editor facilities, such as the help and print menus. It concludes with procedures for changing passwords, changing the editor profile file, and using wildcards.

APPENDIX: TEN/PLUS FUNCTIONS

This appendix describes the capabilities of each of the TEN/PLUS functions and sequences.

1.3 Accessing TEN/PLUS Functions

Accessing TEN/PLUS functions requires different keystroke sequences on different keyboards. Refer to the appropriate section of "TEN/PLUS Keyboard Information" [2] for an alphabetic listing of the TEN/PLUS functions and the keystroke sequences required for your keyboard.

2. GETTING STARTED

2.1 Logging In

You should be familiar with the terms *prompt*, *file*, and *directory* before logging in. A prompt is a signal that prints on the display; it indicates that the system is ready to receive information. A file is a collection of data records stored on the computer. For example, a file might contain a phone list, a letter, or a report. A directory is a collection of files. For example, all files related to a given topic might be located in the same directory. Directories are explained in detail in §5. These terms are used frequently throughout this tutorial. Additional examples are provided later in the text.

The system prompts for user identification before granting access. Although the prompt can be personalized from system to system, it usually asks for a user name and a password. To log in:

- 1. Type your user name and **RETURN**. (The information is "sent" to the computer when **RETURN** is used.)
- 2. The system may prompt for a password (private security identification) after a user name is received. If a password has been issued and the password prompt displays, type the password and **RETURN**. For security purposes, the password does *not* appear on the display when typed. If a password has not been issued and the password prompt displays, **RETURN** to complete the login procedure.

If your system administrator has arranged for you to automatically log in to the TEN/PLUS environment, a formatted screen, listing the name and description of each of your files and directories, will appear. This listing is called your *home directory*. This screen is an example of a home directory:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal mesg phone policies	Calendar My Incoming Messages Company Telephone Book Company Policies
/usr/larry	INSERT Line 1 (4)

(Note that screens may vary on different displays.) If your screen does not look similar to this one, your cursor should be located to the right of a system prompt, typically a \$. Type e . and then **RETURN** to enter the TEN/PLUS environment.

2.2 Using MENU to Return to Your Home Directory

If at any time you get lost in the TEN/PLUS environment, you can use <u>MENU</u> to return to your home directory. <u>MENU</u> provides an easy way to perform actions that would otherwise require more effort. When you use <u>MENU</u>, a menu of options appears. Position the cursor on the desired option, then use <u>EXECUTE</u> to perform the indicated operation, or <u>CANCEL</u> to remove the menu. (The list of menu options is installation-dependent and can be overridden by a user in his editor profile file. Refer to "TEN/PLUS Profiles" [3] for more information about customizing your editor profile file.) To use <u>MENU</u> to return to your home directory:

1. Use MENU:



2. With the cursor on Show home directory, use **EXECUTE**; you will return to the File Manager display in your home directory. You can move quickly to your home directory from any other location by selecting this option from the New Task Menu. See §7 for a discussion of the other options on the New Task Menu.

2.3 Creating a File

To create and access a new file using the TEN/PLUS system:

- 1. With the cursor at the beginning of the first blank line in the File field, type the file name. If you make a typographical error, use **BACKSPACE** to correct the error, then continue typing. Use only alphanumeric characters and the symbols . and , and _ when naming a file. File names should not contain spaces. Use the name report for this example.
- 2. **TAB** or use → to move the cursor to the first position in the Description field.
- 3. Type a brief description in the Description field. For example, type First Report on the QuikSell Project.
- 4. **ZOOM-IN**. Since the report file does not yet exist, a menu will appear:

1	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.			
File	Description			
1988.cal	Calendar			
mesg	My Incoming Messages			
phone	Company Telephone Book			
policies	Company Policies			
report	First Report on the QuikSell Project			
Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise, CANCEL to remove the menu, or HELP to display help information. Create an ASCII file (without history) Create a structured file (with history) Create a directory				
l /usr/larry	INSERT Line 5 (5)			

Your options are to create an ASCII file, a structured file,¹ or a directory, or to re-enter the file name in case you mistyped it. For these exercises, you will create ASCII files.

5. With the cursor on Create an ASCII file (without history), use **EXECUTE** to create the new file. A blank window will appear on the display.

The window is a view into the file and often displays only a portion of the text in the file. The window indicates that you are in the INed text editor and may now enter or revise data in the file. Since this file is empty, the window is blank.

On most displays, the window is 20 or 21 lines high by 78 characters wide (approximately one-third of an 11-inch page). The cursor indicates the current position in the window. On most displays, it is represented by a blinking or solid box, or a blinking or solid underline. Keyboard input is implemented or displayed at the cursor position. When a file is created, the cursor is positioned on the first line of the new file.

^{1.} ASCII files store text and programs. The computer treats the material in an ASCII file like a stream of characters. Structured files store specialized data, such as the help menus you will use later.

Certain file-specific information, such as the file name, appears below the window. System instructions and comments appear whenever necessary in popup boxes in the window. Use **CANCEL** to remove popup boxes.

HELP provides general editing information and specific information pertaining to a popup box when one is displayed. **HELP** is available whenever you are in the TEN/PLUS environment. Refer to this function occasionally while reviewing this tutorial to become familiar with its use.

2.4 Using the Keyboard

Some keyboards differ slightly from regular typewriters. Some symbols may be located in different positions and others may be unique to keyboards. On some keyboards, the numeric keypad can be used for rapid entry of numbers when NUM-LOCK is in effect.

Follow the steps outlined below to acquaint yourself with the keyboard. The words automatically wrap at the right-hand margin indicated at the top of the window; it is not necessary to $\boxed{\text{RETURN}}$ at the end of a line. The text automatically scrolls up when the bottom of the window is reached.

- 1. Examine your keyboard and note the different symbols.
- 2. Find the key for the numeral 1. Note that it is different from the letter 1.
- 3. **BACKSPACE** to erase the characters just typed, then type:
| 1 | t | t | t | t | t | t | t | t | t | r | |
|---|--|--|--|---|--|---|---|--|---------------------------------------|------------|--|
| Preli | minary r | eport by | Pat: | | | | | | | | |
| As yo | ou can se | e, I got | the han | g of th | e system | right av | way. It | 's so fa | st and | | |
| easy,
paper | I find
in the | it hard
past (no | to belie
t so rel | ve I us
iable, | ed to rel
either). | y so hea | avily on | personn | el and | | |
| I hav
John
but t
QuikS
doesn
as dy | ve review
and I ag
the visua
Sell Corp
n't have
vnamic as | ed all o
ree that
is are j
. The p
the impa
their p | opy and
"QuikSe
ust too
bhoto of
oct we're
product. | ad desi
11 Make
stuffy
busines
100kin | gns for Q
s the Har
for a pro
s people
g forth | uikSell
d Sell)
gressive
in a con
is clier | as you :
Easy" is
e young
nference
nt deser | requested
a great
company :
room set
ves somet | i.
theme
like
tting
thing | | |
| I rec
rathe
backg
trade
busin
turns
impat | I recommend a less conservative approach, although still using photography
rather than illustrations. I envision a scene with one prop against a white
background. Prominent in the picture is a salesman standing behind a
tradeshow booth on which appears a sign "Buy Here." A half a dozen or more
business people are crowded around in front of the booth, waiting for their
turns to buy. They're writing out checks or waving their checkbooks
impatiently. The salesman is taking orders and checks as fast as he can | | | | | | | | | | |
| /usr/l | arry/rep | oort | | | INSERI | Lin | e 20 | (20) | | - I | |

If you make a typographical error, **BACKSPACE** to correct the error, then continue typing. If there is an error on a previous line, ignore it; you will learn how to revise it later. If you type text to the left of text already on a line, the existing text moves to the right.

4. When the text reaches the bottom of the screen the window scrolls to allow continuous typing. Continue typing the rest of the paragraph:

1	t	t	t	t	t	t	t	t	t	r
as dy	namic as	s their p	product.							
I rec rathe backg trade busin turns impat (life image	ommend a r than : round. show boo ess-peo to buy iently. should we want	a less co illustrat Prominen oth on wh ple are o . They'n The sal be so go t and cen	onservati tions. I ht in the hich appe- crowded a: ce writing lesman is bod!). The tainly he	ve appr envisi pictur ars a s round i g out c taking his, I as the	oach, alth on a scene e is a sal ign "Buy H n front of hecks or w orders an believe, i impact we'	ough st with or esman s ere." A the bo aving the d check s more re look	ill usi: he prop tanding half a oth, wa heir ch s as fa consist ing for	ng photog against behind a dozen or iting for eckbooks st as he ent with	graphy a whit f more f thei: can the	r
/usr/l	arry/re	port			INSERT	Line	22	(22) ^	

Note that the symbol $^$ appears below the window to indicate that there is text above the text that is visible in the window. The v symbol indicates that there is text below what appears in the window. The > symbol indicates that text extends to the right of the window, and the < symbol

indicates that text extends to the left of the window. On some systems, a different set of symbols may be used to indicate text extending beyond the window borders.

2.5 Using the Cursor- and Window-Positioning Functions

All typing and editing occurs at the cursor position. The cursor- and window-positioning functions move the cursor easily within the file.

This list summarizes the cursor- and window-positioning functions:

I	Moves the cursor down.
Î	Moves the cursor up.
→	Moves the cursor to the right.
-	Moves the cursor to the left.
RETURN	Moves the cursor to the next line.
TAB	Moves the cursor forward to the next tab stop.
-TAB	Moves the cursor backward to the previous tab stop.
HOME	Moves the cursor to the upper left-hand corner of the window.
+LINE	Moves the text one-third of a window forward within the file.
-LINE	Moves the text one-third of a window back within the file.
+PAGE	Moves the text one window forward within the file.
-PAGE	Moves the text one window back within the file.
GO-TO	Moves the cursor to the first line of the file; if at the first line, moves the cursor to the last line of the file.
LINE-FEED	Positions the cursor at the beginning of the next line of a form.
LEFT	Moves the window to the left, displaying any text previously to the left of the window.
RIGHT	Moves the window to the right, displaying any text previously to the right of the window.

+PAGE, **-PAGE**, **+LINE**, **-LINE**, **LEFT**, and **RIGHT** enable you to scroll through a file. **HOME** (which positions the cursor at the upper left-hand corner of the window) and **GO-TO** (which positions the cursor at

the first or last line of the file) are also helpful for quick movement. When the cursor-positioning functions $[], [\uparrow], [\neg], [\neg], and [\neg] are used and the cur$ sor reaches the boundary of the screen, it wraps around and moves to theopposite border. When the cursor is on the last line of the window and**RETURN**is used, the screen scrolls one line. This allows text to beentered continuously at the end of a file without having to move the window to bring in new lines.

Practice positioning the cursor within the window by using the functions described above. Use each function until you are comfortable with it.

2.6 Using Menus

Many operations in the TEN/PLUS environment are simplified through the use of menus. To select an option from a menu that appears on your screen, either position the cursor on the desired option and use $\boxed{EXECUTE}$, or use any of the functions (1) through (8), depending on the number that corresponds to the line on which your choice is listed. For example, to select Create a structured file (with history) from the file creation menu, use (2), since this is the second option on that menu.

2.7 Using FUNCTIONS

The ten basic functions included with the TEN/PLUS environment are **MENU**, **LOCAL-MENU**, **INSERT**, **PICK-COPY**, **PUT-COPY**, **PICK-UP**, **PUT-DOWN**, **FORMAT**, **ZOOM-IN**, and **ZOOM-OUT**. Each of these functions can only be used in certain situations and, consequently, only a subset of these functions may be active at any given time. **FUNCTIONS** displays the set of functions that are currently active. (On some systems, more than ten functions may be displayed.) For example, when editing an ASCII file, **ZOOM-IN** does not display on the menu displayed by **FUNCTIONS** because you cannot **ZOOM-IN** from the editing window of a text file.

The complete menu displayed by **FUNCTIONS** typically looks like this:

```
Functions Menu
Move the cursor to the desired
function and touch EXECUTE.
Touch CANCEL to do nothing,
HELP for help.
MENU
LOCAL-MENU
INSERT
PICK-COPY
PUT-COPY
PUT-COPY
PUT-COPY
FORMAT
ZOOM-IN
ZOOM-OUT
```

2.8 Using ENTER

ENTER is used to modify the meaning of other functions. Although you will not be using **ENTER** extensively until later, this exercise provides an example of how to use it:

- 1. **GO-TO** the beginning of the report file.
- 2. Locate the key(s) used for **ENTER** on the keyboard.
- 3. Locate the key(s) used for **+LINE**. (Remember, **+LINE** scrolls the text forward in the file.)
- 4. Use **ENTER**; the cursor moves into a popup box and ENTER: displays in the box.
- 5. Type the number 30. Note that on some keyboards the numeric keypad is used only to access functions, in which case numeric data is entered via the numbered keys on the main keyboard. Refer to the layout template for your keyboard.
- 6. Use **+LINE**. The cursor advances 30 lines to the 31st line of the file.
- 7. The effect of **ENTER** number **+LINE** is different from that of **+LINE** alone. Use only **+LINE**; the text scrolls about one-third of a window forward.

Note that you can use **CANCEL** or use **ENTER** again to cancel an **ENTER** sequence at any time before completion. You can use any of these functions to edit the text typed into a popup box:



2.9 Using HELP and CANCEL

As mentioned previously, **HELP** provides either general information during an editing session or specific information pertaining to the message in a popup box. Although there is no need to explore all available **HELP** topics now, it is important to review the Help Menu and become familiar with its facilities. Refer to §7.1 for additional information about **HELP**. Practice using **HELP** and **CANCEL**:

- 1. Use **HELP**. The Help Menu will appear on the screen. Note that various topics are covered.
- 2. Use **CANCEL** to remove the Help Menu.
- 3. Use **ENTER**. The ENTER: popup box will appear on the screen.
- 4. Use **HELP**. Note that the information now focuses on **ENTER**.
- 5. Use **CANCEL** to return to the ENTER: popup box.
- 6. Use **CANCEL** again to remove the popup box from the display.

2.10 Exiting a File

The screen that displays your home directory is the File Manager screen. The File Manager is the primary utility used to create, access, and delete files and directories.

When you are finished editing a file, **ZOOM-OUT** to return to the File Manager screen. You can **ZOOM-OUT** no matter where the cursor is located in the file.

2.11 Accessing Existing Files

To access a file in your home directory, position the cursor on the line on which the file is listed and **ZOOM-IN**. Because the file already exists, no menu appears.

2.12 Logging Out

If your system administrator has arranged for you to automatically log in to and log out of the TEN/PLUS environment, you can log out of the system by using $\boxed{\text{EXIT}}$. You know you have logged out because the system prompts for the user name of the next user with the login prompt.

If your system is not configured to allow direct entry into the TEN/PLUS environment when you log in, you must exit the TEN/PLUS environment before logging out. To exit the TEN/PLUS environment, use **EXIT**. This causes the system prompt to display. Once the prompt appears, log out by using the logout sequence for your keyboard, provided in the appropriate section of "TEN/PLUS Keyboard Information."

Log in again with your user name and, if you have one, your password.

3. TYPING AND FORMATTING TECHNIQUES

Until now, all of the exercises in this tutorial have used unformatted text with preset margins and tabs. The INed text editor also lets you set margins and tabs and provides basic formatting facilities. These typing and formatting techniques are covered in this section.

3.1 Changing the Left-Hand Margin

When a file is created or opened, the left-hand margin is in the first column to the right of the left-hand window border. The setting is indicated by the placement of the letter 1 on the tab grid above the window. Access your report file:

1 ÷ ÷ ÷ ٠ t ŧ t t ŧ r Preliminary report by Pat: As you can see, I got the hang of the system right away. It's so fast and easy, I find it hard to believe I used to rely so heavily on personnel and paper in the past (not so reliable, either). I have reviewed all copy and ad designs for QuikSell as you requested. John and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but the visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have the impact we're looking for--this client deserves something as dynamic as their product. I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. Prominent in the picture is a salesman standing behind a tradeshow booth on which appears a sign "Buy Here." A half a dozen or more business people are crowded around in front of the booth, waiting for their turns to buy. They're writing out checks or waving their checkbooks impatiently. The salesman is taking orders and checks as fast as he can /usr/larry/report INSERT Line 1 (22) v

The left-hand margin can be set at any column to the right of column 1. The cursor must, however, be somewhere within the window. All text entered after the margin is changed wraps to the new left-hand margin.

The simplest way to set a new left-hand margin is to use MARGIN:

- 1. Move the cursor across the display to the column at which the new left-hand margin is to be set. The line on which the cursor is located does not affect the setting. The new margin affects text typed after the margin is changed regardless of where the text is typed.
- 2. Use **MARGIN**. The position of the 1 on the tab grid above the window will change.

To move the left-hand margin back to the left-hand edge of the window:

- 1. Use \leftarrow or -TAB to position the cursor at the left-hand border.
- 2. Use MARGIN.

Practice changing the left-hand margin on the report file:

- 1. Use **ENTER GO-TO** to move to the end of the file.
- 2. **TAB** to the first tab stop and use **MARGIN**.
- 3. Add an indented paragraph to the end of your file:

	1	t	t	t	t	t	t	t	t	r
I recc rather backgr trades busine turns impati (life the im	mmend a than i ound. how boc ss-peop to buy. ently. should age we Also, misse point	A less co llustrat Prominer oth on wh Dle are co They'r The sal be so go want and , about t es the ma c is thei	nservati tions. I ti in the hich appe e writin esman is bod!). T l certain the Corne ark. The r cheap	ve appro envision picture ars a sin toture toture taking taking this, I b ly has t erstone C see are in price an	ach, alth n a scene is a sal gn "Buy H front of ecks or w orders an elieve, i he impact ondos con nexpensiv d impress	ough st with o esman s ere." J the bo aving to d check s more cept	till usin one prop standing A half a costh, wa their ch ks as fa consist looking "Homes B os whose st of st.	ng photo against behind dozen o iting fo eckbooks st as he ent with for. iilt To biggest andard f	graphy a whit a r more r their can Last" sellir eatures	e Ig
/usr/la	rry/re	port			INSERT	Lin	e 26	(26	;) ^	

- 4. **TAB** to the second tab stop and use **MARGIN**.
- 5. Continue typing:

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t	1	t	t	t	t	t	t	t	r
I recommend rather than background. tradeshow bo business peo turns to buy impatiently. (life should image we wan	a less co illustrat Prominen oth on wh ple are c . They'r The sal be so go t and cer	nservati ions. I t in the ich appe rowded a e writin esman is od!). T tainly h	ive appro envision envision ears a si arsound in ag out ch taking This, I h has the i	pach, alt on a scen is a sa gn "Buy front o necks or orders a elieve, mpact we	hough st e with c lesman s Here." A f the bc waving t nd check is more 're look	till usi: tene prop tanding half a both, wa heir ch is as fa consist ting for	ng photog against behind a dozen on iting fon eckbooks st as he ent with	graphy a white more their can the	te r
/usr/larry/re	, about t es the ma t is thei They' buyer port	ne Corne rk. The r cheap re reall would p	price are i price ar y a "fin plan to l	inexpensi inexpensi ad impres st home" ive in f INSERT	ncept ve condo sive lis investm or more Line	Homes B os whose ot of st. hent, no than 2-	biggest andard fe t the typ 3 years.	sellin sellin satures pe a	ng s.

6. Position the cursor in the column to the right of the left-hand window border and use **MARGIN**. The left-hand margin is restored to its original position.

3.2 Changing the Right-Hand Margin for Word Wrap

The right-hand margin controls the point at which text begins to wrap onto the next line. Word wrap increases typing speed by eliminating the need to $\boxed{\text{RETURN}}$ at the end of every line.

When a file is created, the right-hand margin is automatically set. The setting is indicated by the placement of the letter r on the tab grid above the window. Note the position of the default right-hand margin setting above the window on your display.

The right-hand margin can be removed or changed to any column between columns 2 and 200. The cursor must, however, be somewhere within the window. All text entered after the margin is changed wraps at the new right-hand margin. Having no right-hand margin set turns off word wrap. Note that to set a right-hand margin, a left-hand margin must already be set.

To create a new right-hand margin:

1. Move the cursor to the column at which the new right-hand margin is to be set. The line on which the cursor is located when the margin is set does not affect the setting. The new margin affects text typed after the margin is changed regardless of where the text is typed.

2. Use **ENTER MARGIN**. Note that the position of the r on the tab grid above the window changes.

Practice changing the right-hand margin in the report file:

- 1. **TAB** to the eighth tab stop and use **ENTER MARGIN**.
- 2. Use **ENTER GO-TO** to move to the end of the file, then type the last paragraph shown below. Notice that the text wraps at the new margin:

1	t	t	t	t	t	t	t	r	t	
We've is the renter home t	Also miss poin got to coppor to ho will la	<pre>, about tl es the man t is thein They': buyer go for tl tunity he meowner. st. He wa</pre>	he Corne rk. The r cheap re reall would p he first 's been He coul ants a l	erstone C ase are i price an ly a "fir blan to l c-time bu waiting ldn't car lifestyle	ondos cond nexpensivo d impress: st home" : ive in for yer, conv: for to mal e less abo and a low	cept"F e condos ive list investme r more t ince him ke the out how w down p	Nomes B s whose t of st ent, no than 2- h that jump fr long t bayment	hilt To biggest andard f t the ty 3 years. this om he	Last" : selling Geatures. ppe a	J .
/usr/la	arry/re	port			INSERT	Line	33	(33	3) ^	

- 3. **TAB** to the seventh tab stop and use **ENTER MARGIN**.
- 4. **RETURN** and continue typing:

1 t t ŧ. ٠ ÷ ÷ r ŧ. t Also, about the Cornerstone Condos concept -- "Homes Built To Last" misses the mark. These are inexpensive condos whose biggest selling point is their cheap price and impressive list of standard features. They're really a "first home" investment, not the type a buyer would plan to live in for more than 2-3 years. We've got to go for the first-time buyer, convince him that this is the opportunity he's been waiting for to make the jump from renter to homeowner. He couldn't care less about how long the home will last. He wants a lifestyle and a low down payment. I say we go with a headline that expands this message, such as "Our long list of standard features will raise your standard of living more than you ever thought possible--for just \$1,500 down." (I'll buy two for my kids right now!) 38) ^ usr/larry/report 38 (INSERT Line

New left- and right-hand margins set during an editing session last only until you exit the TEN/PLUS environment. If you exit the TEN/PLUS environment and then reaccess a file, the margins are set to the default columns. Reset the left- and right-hand margins as required.

3.3 Changing Both Margins Simultaneously

You can change both the left- and right-hand margins in one step by cursor-defining the width and positioning of the desired text block:

- 1. Move the cursor to the column in which the new left-hand margin is to be located, then use **ENTER**.
- 2. Use \rightarrow or **TAB** to move the cursor to the column in which the new right-hand margin is to be set.
- 3. Use MARGIN.

You can turn off word wrap by clearing the margins. To clear the margins:

- 1. Position the cursor in the same column as the left-hand margin.
- 2. Use **ENTER** MARGIN. Note that the 1 and r markers on the tab grid are removed.

To reset the default margins after clearing them:

- 1. Move the cursor to the default right-hand margin position.
- 2. Use **ENTER MARGIN**. Note that the margins must be cleared before **ENTER MARGIN** can be used to restore the default margins.

Practice clearing the margins and setting new ones:

- 1. With the cursor at the left-hand margin, use **ENTER MARGIN**.
- 2. **TAB** to the first tab stop, then use **ENTER**.
- 3. **TAB** to the eighth tab stop, then use **MARGIN**.

3.4 Readjusting Lines on New Margins

FORMAT is used to adjust lines according to a new margin setting. When **FORMAT** is used, the lines from the cursor position to the next blank line are adjusted according to the current margin settings.

To readjust lines within new margins:

1. **GO-TO** the beginning of your file.

- 2. Position the cursor on the first line of the second paragraph. One or more text lines followed by a blank line are considered to be a paragraph.
- 3. Use **FORMAT**. Note that **FORMAT** does not change the indentation of the first line of the paragraph. Move the line to the new margin by using the space bar.
- 4. Use **FORMAT** to fill the text again:

1 t t t t t t r t Preliminary report by Pat: As you can see, I got the hang of the system right away. It's so fast and easy, I find it hard to believe I used to rely so heavily on personnel and paper in the past (not so reliable, either). I have reviewed all copy and ad designs for QuikSell as you requested. John and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but the visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have the impact we're looking for--this client deserves something as dynamic as their product. I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. Prominent in the picture is a salesman standing behind a tradeshow booth on which appears a sign "Buy Here." A half a dozen or more business-people are crowded around in front of the booth, waiting for their turns to buy. They're writing out checks or waving their checkbooks usr/larry/report 3 (39) INSERT Line v

- 5. Reset both margins so that they are each indented approximately two inches.
- 6. Move the cursor to the third line of the next paragraph in the file, then use **FORMAT**. Note that the lines above the cursor are not affected.
- 7. Reset the margins to the default columns and use **FORMAT** to reformat the text, including the paragraphs at the end of the file.
- Where necessary, adjust the first line in each paragraph by positioning the cursor on the first character in the line and using BACKSPACE to move the line to the left-hand margin; use FORMAT again.

3.5 Centering Text

CENTER centers a single line of text between the current left- and righthand margins. To center a single line:

- 1. Position the cursor on the line to be centered.
- 2. Use **CENTER**.

To center multiple lines, cursor-define the lines to be centered before using **CENTER**:

- 1. Move the cursor to the first line to be centered, then use **ENTER**.
- 2. Use 1 to move the cursor down to the last line to be centered, then use CENTER. Note that the lines defined by the cursor are centered.

Practice this procedure at the end of the report file:

- 1. Use **ENTER GO-TO** to go to the end of the file.
- 2. Type the new text exactly as shown below, using **RETURN** at the end of each line:

1	t	t	t	t	t	t	t	t	t	r
"first i than 2-	home" in 3 years.	vestment	, not th	e type a	buyer w	ould pla	in to 1	ive in fo	r mor	e
We've g opportu He coul lifesty this me standar down."	ot to go nity he' dn't car le and a ssage, s d of liv (I'll b	for the s been wa e less al low down uch as "(ing more uy two fo	first-t aiting f bout how n paymen Dur long than yo or my ki	ime buye: or to mal long the t. I say list of u ever the ds right	r, convi ke the j e home w y we go standar hought p now!)	nce him ump from ill last with a h d featum ossible-	that that the renter of the second se	his is th r to home wants a e that ex l raise y ust \$1,50	e owner pands our 0	
Prelimi	nary com	ments fro	om Larry	:						
After a seems t are all new cop	brief r o me Pat valid. y for th	eview of 's insig] I'll bee e campaie	the acc ht and r gin work gn.	ounts, it ecommenda ing up sa	t ations ome					
/usr/lar	ry/repor	t		:	INSERT	Line	43	(43)	^ v]

- 3. With the cursor on the line containing the word Preliminary, use **ENTER**.
- 4. Move the cursor down to the last line of new text, then use **CENTER**:

1	t	t	t	t	t	t	t	t	t	r		
"firs than	st home" 2-3 year	investm cs.	ent, not	the type	a buyer	would p	plan to 1	live in :	for mor	e		
We've oppor He co lifes this stand down	We've got to go for the first-time buyer, convince him that this is the opportunity he's been waiting for to make the jump from renter to homeowner. He couldn't care less about how long the home will last. He wants a lifestyle and a low down payment. I say we go with a headline that expands this message, such as "Our long list of standard features will raise your standard of living more than you ever thought possiblefor just \$1,500 down." (I'll buy two for my kids right now!)											
			Prelim	inary com	ments fro	om Larry	y:					
	After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign.											
/usr/:	larry/rep	port			INSERT	Lin	e 38	(43) ^ v	J		

3.6 Changing Tab Stops

The editor has default tab stops indicated by the markers above the window. The default tabs stops are located eight columns apart. During an editing session, individual tabs can be cleared or set, but the default tab stops are reinstated whenever you exit the TEN/PLUS environment and then reaccess a file.

To clear a tab stop:

- 1. **TAB** to the appropriate tab stop.
- 2. Use ENTER SET-TAB.

To set individual tabs:

- 1. Position the cursor at the appropriate column within the window.
- 2. Use **SET-TAB**. Note that **SET-TAB** will only work when the cursor is positioned within the window.

Practice clearing and setting tab stops:

- 1. **TAB** to the first tab stop.
- 2. Use ENTER SET-TAB.
- 3. Repeat for the next two tab stops.
- 4. Set tabs 10 and 20 characters from the left-hand margin.

3.7 Underscoring With FONT

Most displays are equipped with four fonts: one for typing nonunderscored words; one for typing underscored words, spaces, and punctuation (continuous underscoring); one for typing underscored words only (word underscoring); and one for accessing a graphics character set (if one is available on your display). **FONT** is used in conjunction with **ENTER** to select the various fonts for input. Text already entered cannot be modified with **FONT**. On displays that cannot show underlining, underlined characters are added correctly to the file.

To select continuous underscoring, use **ENTER** c **FONT**. To select word underscoring, use **ENTER** w **FONT**. To select nonunderscoring, use **ENTER FONT**. The graphics characters are described in the "TEN/PLUS Reference Manual." Although graphics characters may be viewed on the display, the ability to print them is printer dependent. To select the graphics font, use **ENTER** g **FONT**.

Once a font has been selected, **FONT** can be used to switch between that font (the "active" font) and the font selected immediately beforehand (the "previously active" font). The nonunderscore (or Roman) font is active whenever you enter the editor. The default previously active font is continuous underscore.

Selection of active and previously active fonts permits all possible combinations of fonts. If, for example, you select word-underscore font while the nonunderscore font is active, you switch between nonunderscored text and word-underscored text each time you use **FONT**. If you select the wordunderscore font while the continuous-underscore font is active, you switch between word underscoring and continuous underscoring each time you use **FONT**. Remember, you can always return to the default nonunderscore font by using **ENTER FONT**.

It is important for you to feel comfortable using the techniques you have just learned. Do this exercise to be sure you know how to use all of these facilities:

- 1. Use **ENTER** FONT to return to nonunderscore font, then **ZOOM-OUT** of your file.
- 2. Create a new file named memo.
- 3. Practice typing text in the various fonts. When you are accustomed to switching between the various fonts, enter some text as follows:
 - a. Insert a centered, underscored title.

- b. Type one paragraph using the default margins.
- c. Indent the left- and right-hand margins and type another paragraph.
- d. Underline some of the text as you are typing.
- e. Change the margins back to their original setting.
- f. Change the tab stops and type a chart.

4. BASIC EDITING TECHNIQUES

The previous sections explained how to create, type, and format files. This section shows how to revise (or *edit*) files.

These functions are used when making revisions:

DELETE-CHARAG	CTER
	Deletes characters.
INSERT-MODE	Alternates between insert mode and overwrite mode.
INSERT	Creates a blank line.
PICK-UP	Picks up a full line from the text and adds it to the "pick buffer."
PUT-DOWN	Returns last "picked" line to the file.
DELETE	Deletes a full line and adds it to the "wastebasket buffer."
RESTORE	Returns last DELETE d line to the file.
PICK-COPY	Copies a full line and adds it to the pick buffer.
PUT-COPY	Copies the last picked line to the file.

The purpose of each of these functions, when used alone or in conjunction with **ENTER**, is explained more fully later in this section.

To revise a file:

- 1. Access the file requiring revision.
- 2. Position the cursor at the location of the desired revision using the cursor- and window-positioning functions.
- 3. Make the revision.

Before continuing, locate the keys used for **DELETE-CHARACTER**, **INSERT-MODE**, **INSERT**, **PICK-UP**, **PUT-DOWN**, **DELETE**, **RESTORE**, **PICK-COPY**, and **PUT-COPY**. Note that some of these functions can also be invoked using **FUNCTIONS**, which displays a menu showing which of the ten basic TEN/PLUS functions are active.

4.1 Deleting Characters or Words Within a Line

DELETE-CHARACTER deletes individual characters or, when used repetitively, strings of characters within a line. As the characters are deleted, the rest of the line to the right of the deletion point moves toward the cursor.

Practice using **DELETE-CHARACTER**:

- 1. Access the report file.
- 2. With the cursor on the third line of the file, delete the words right away by positioning the cursor at the space before the r in right, then using <u>DELETE-CHARACTER</u> repeatedly until the words are removed and the period is at the cursor position. Note that the characters to the right of the cursor move one space to the left for each character deleted:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary r	eport by	Pat:							
As yo easy, paper	u can se I find in the	e, I got it hard past (no	the han to belie t so rel	ng of th eve I us iable,	e system. ed to rel either).	It's a y so hea	so fast a avily on	nd personne	el and	
I hav and I the v QuikS doesn dynam	e review agree t isuals a ell Corr 't have ic as th	ved all c chat "Qui are just b. The p the impa neir prod	opy and kSell Ma too stuf bhoto of act we're luct.	ad desi thes the fy for busines lookin	gns for Q Hard Sel a progres s people g forth	uikSell l Easy" sive you in a cou is clieu	as you n is a gre ung compa nference nt deserv	equested eat them any like room set yes somet	d. Joh e, but tting thing a	nn NS
I rec rathe backg trade busin turns impat	ommend a r than i round. show boo ess-peop to buy. iently.	less co llustrat Prominer oth on wh ole are co They'n The sal	onservati tions. I ht in the hich appe trowded a te writin lesman is	ive appr envisi ars a s round i g out c taking	oach, alt on a scen e is a sa ign "Buy n front o hecks or orders a	hough s e with lesman Here." f the b waving nd chec	till usin one prop standing A half a ooth, wa: their che ks as fas	ng photog against behind a dozen on iting for eckbooks st as he	graphy a whit a r more r thein can	te r
/usr/l	arry/rej	port			INSERT	Lin	e 3	(43) v	

3. On the fifth line of the file, position the cursor at the space just after the t in past and use **DELETE-CHARACTER** to remove (not so reliable either). Note that strings can be removed more quickly when **DELETE-CHARACTER** is held down.

4.2 Adding Characters or Words Within a Line

When a file is opened, the editor is in insert mode. (The system informs you of this by displaying INSERT below the window.) When the editor is in insert mode, all input is inserted at the cursor position and existing text is moved to the right (or wrapped onto the next line). To add characters or words within a line without overstriking characters, use insert mode. If the right-hand margin has been removed (word wrap is off) and the editor is in insert mode, a line of text can extend beyond the right-hand window border. You can view the part of the line that has moved off the display by using **RIGHT** to move the window. If there is a right-hand margin (word wrap is on) and the editor is in insert mode, the text wraps at the margin. Use **FORMAT** as required to reformat the text within each paragraph according to the margins set on the display.

When insert mode is in effect, you can correct typing errors by typing the correct characters and using **DELETE-CHARACTER** to remove the incorrect ones. You may prefer to keep insert mode in effect throughout revision.

- 1. Deactivate word wrap by removing the margins as described in §3.3.
- 2. On the third line, position the cursor on the period after the word system.
- 3. Insert the text in just a few short hours. The text to the right of the insert moves beyond the right-hand window border:

```
ŧ.
                t
                        t
                                ÷
                                        ÷
                                                ÷
                                                        +
                                                                ÷
                                                                         ÷
Preliminary report by Pat:
As you can see, I got the hang of the system in just a few short hours. It's
easy, I find it hard to believe I used to rely so heavily on personnel and
paper in the past.
I have reviewed all copy and ad designs for QuikSell as you requested. John
and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but
the visuals are just too stuffy for a progressive young company like
QuikSell Corp. The photo of business people in a conference room setting
doesn't have the impact we're looking for -- this client deserves something as
dynamic as their product.
I recommend a less conservative approach, although still using photography
rather than illustrations. I envision a scene with one prop against a white
background. Prominent in the picture is a salesman standing behind a
tradeshow booth on which appears a sign "Buy Here." A half a dozen or more
business-people are crowded around in front of the booth, waiting for their
turns to buy. They're writing out checks or waving their checkbooks
impatiently. The salesman is taking orders and checks as fast as he can
usr/larry/report
                                                            3 (
                                                                  43)
                                       INSERT
                                                 Line
                                                                        v
```

Note that the > symbol appears below the window to indicate that there is text to the right of the border, and that the text so fast and is not visible in the window.

4. Use **RIGHT** to see the text to the right of the window:

+ ٠ + t ٠ ÷ + ÷ t hang of the system in just a few short hours. It's so fast and lieve I used to rely so heavily on personnel and nd ad designs for QuikSell as you requested. John Makes the Hard Sell Easy" is a great theme, but tuffy for a progressive young company like of business people in a conference room setting 're looking for--this client deserves something as ative approach, although still using photography I envision a scene with one prop against a white the picture is a salesman standing behind a ppears a sign "Buy Here." A half a dozen or more d around in front of the booth, waiting for their ting out checks or waving their checkbooks is taking orders and checks as fast as he can /usr/larry/report INSERT Line 3 (43) v <

Note that the < symbol now appears below the window to indicate that there is text to the left of the window.

- 5. Use **LEFT** to move the window back to its original position.
- 6. Reset the default margins to reactivate word wrap.

4.3 Correcting Transpositions and Typographical Errors

When the editor is in overwrite mode it is possible to correct typographical errors by typing the correct characters over the incorrect ones. As each character is typed, it *overwrites* the incorrectly typed character at the cursor position. Use **INSERT-MODE** to switch into overwrite mode. This causes the word **INSERT** to be replaced by the word **OVERWRITE** below the window. Use **INSERT-MODE** to alternate between insert mode and overwrite mode. Delete extra characters by using **DELETE-CHARACTER**. Use **ENTER DELETE-CHARACTER** to delete text from the cursor position to the end of a line.

- 1. Switch into overwrite mode by using **INSERT-MODE**. Note that OVERWRITE replaces INSERT below the window.
- Position the cursor at the period after the word past on the fifth line, use it to move the cursor three columns to the right, and type (including the transposition in thnigs):

I can already tell that this system is going to speed thnigs up immensely on my part.

- 3. Position the cursor at the i in is on the fifth line and type will. Note that each character typed overwrites the character at the cursor position.
- 4. Use **DELETE-CHARACTER** to delete the extra characters at the end of going (oing) and the word to.
- 5. Position the cursor at the n in thnigs and type in.
- 6. On the sixth line, position the cursor at the space after immensely and type a period.
- 7. Use **ENTER DELETE-CHARACTER** to delete the end of the line.
- 8. **RETURN**, then use **INSERT**. The screen should now look like this:

t t t ŧ. t t t t t r Preliminary report by Pat: As you can see, I got the hang of the system in just a few short hours. It's easy, I find it hard to believe I used to rely so heavily on personnel and paper in the past. I can already tell that this system will speed things up immensely. I have reviewed all copy and ad designs for QuikSell as you requested. John and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but the visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have the impact we're looking for--this client deserves something as dynamic as their product. I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. Prominent in the picture is a salesman standing behind a tradeshow booth on which appears a sign "Buy Here." A half a dozen or more business-people are crowded around in front of the booth, waiting for their turns to buy. They're writing out checks or waving their checkbooks usr/larry/report 6 (44) OVERWRITE Line v >

9. Use **INSERT-MODE** to switch back into insert mode.

4.4 Moving Windows

If a right-hand margin has not been set and words are inserted within a line, the line often extends past the right-hand window border. Use **RIGHT** to move the window to the right so that the text beyond the border is visible. Use **LEFT** to move the window back to its original position. File width can exceed the width of the window. In such cases, only part of the width appears on the display at any one time.

RIGHT and **LEFT** also allow you to type text, such as a statistical chart, that is wider than the window. You may even set a right-hand margin (**ENTER MARGIN**) that is wider than the window. The window, in this case, automatically scrolls right and left as the system word wraps the text.

Like the other scrolling functions, **RIGHT** and **LEFT** accept numeric arguments when used in conjunction with **ENTER**. For example, to scroll the window 50 columns to the right, use **ENTER** 50 **RIGHT**. To return the window to its original position, in lieu of repeatedly using **LEFT**, use **ENTER** 50 **LEFT**. (Any number greater than 50 will work as well.)

This exercise demonstrates the procedures for moving windows:

- 1. Use **RIGHT** to move the window so that you can see the text extending beyond the right-hand window border.
- 2. Use **LEFT** to move the window back to its original position.
- 3. Use **ENTER** 50 **RIGHT** to move the window 50 columns to the right:

	t	t	t	r	t	t	t	t	t	t	
st a hea yste	a few sh avily on em will	hort hour; n personn speed	s. It el and	:'s l	so fas	t and					
ll a y" i your cons ient	as you n is a gre ng compa ference deserv	requested eat theme any like room set ves somet	. Joh , but ting hing a	in Is							
st: h or n st " / boo g tl	ill usin he prop canding A half a oth, was heir cho	ng photog against behind a a dozen o iting for eckbooks	raphy a whit r more their	e							
usr/	/larry/:	report				INSER	т	Line	1 (44)	▼ <

- 4. Use ENTER 50 LEFT to return the window to its original position.
- 5. Move the cursor to the first line of the paragraph beginning with As you can see and use **FORMAT**. Note that the text beyond the window border is now wrapped within the right-hand margin.

4.5 Deleting or Moving Lines

There are two ways to delete lines from a file: **DELETE** and **PICK-UP**. Use **DELETE** if you wish to remove a line permanently. Use **PICK-UP** if you plan to put the line down somewhere else. A line that has been picked up with **PICK-UP** and has not been **PUT-DOWN** or copied has effectively been deleted. Note that you can recover **DELETE** d lines with **RESTORE**.

4.5.1 Using DELETE. DELETE removes the line containing the cursor, adds it to the wastebasket buffer, and moves the remaining lines up. To recover text deleted the last time DELETE was used, use **RESTORE**. **RESTORE** removes text from the wastebasket buffer and replaces it in the file. Text that has not been **RESTORE** d remains in the buffer.

Practice moving or deleting lines using **DELETE**:

- 1. Use **DELETE-CHARACTER** to delete the phrase It's so fast and easy, beginning on the third line, then use **DELETE** to delete the line beginning As you can see.
- 2. Use **DELETE** to remove the next four lines. The screen should now look like this:

1	t	t	t	t	t	t	t	t	t	r	
Preli	minary 1	report by	Pat:								
I hav and I the v Corp. the is their	I have reviewed all copy and ad designs for QuikSell as you requested. John and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but the visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have the impact we're looking forthis client deserves something as dynamic as their product.										
I rec rathe backg trade busin turns impat (life image	their product. I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. Prominent in the picture is a salesman standing behind a tradeshow booth on which appears a sign "Buy Here." A half a dozen or more business-people are crowded around in front of the booth, waiting for their turns to buy. They're writing out checks or waving their checkbooks impatiently. The salesman is taking orders and checks as fast as he can (life should be so good!). This, I believe, is more consistent with the image we want and certainly has the impact we're looking for.										
Also,	about t	the Corne	erstone C	ondos c	oncept"	Homes Bu	ilt To	Last" mis	sses th	ne	
/usr/l	arry/re	port			INSERT	Line	. 3	(39)) V		

3. Use **RESTORE** five times to recover the **DELETE** d lines, then use **FORMAT**.

4.5.2 Using PICK-UP. Like **DELETE**, **PICK-UP** removes the line containing the cursor and moves the remaining lines up, but it places the line in the pick buffer rather than in the wastebasket buffer. Recover pickedup text with **PUT-DOWN**, which removes the text from the pick buffer and replaces it in the file. Any text that is not **PUT-DOWN** remains in the buffer.

Practice deleting and restoring lines using **PICK-UP**:

1. Position the cursor on the third line in the file and use **PICK-UP** five times. All five lines are removed:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary 1	report by	Pat:							
I have and I the v Corp. the in their	e review agree d isuals a The pl mpact we product	wed all c that "Qui are just hoto of b e're look t.	opy and kSell Ma too stuf usiness ing for-	ad designed kes the fy for a people -this c	gns for Q Hard Sel a progres in a conf lient des	uikSell 1 Easy" sive you erence r erves so	as you i is a gro ing compa coom set omething	requested eat them any like ting does as dynam	d. Joh e, but QuikSe sn't ha mic as	nn 211 Nve
I record rathe: backg: trade: busing turns impat: (life image Also,	ommend a r than : round. show boo ess-peo to buy iently. should we want about t	a less co illustrat Prominen oth on wh ple are c . They'r The sal be so go t and cer the Corne	nservati nions. I t in the hich appe rrowded a e writin esman is yod!). T tainly h	ve approversion of the second	oach, alt on a scen e is a sa ign "Buy i n front o hecks or orders a believe, impact we oncept"	hough st e with o lesman s Here." f the bo waving t nd chec) is more 're loo) Homes Bu	till usin one prop standing A half a ooth, wa their chair consist consist ring for	ng photo against behind a a dozen o iting fo eckbooks st as he ent with Last" mi	graphy a whit or more r their can the sses th	ne
/usr/l	arry/re	port			INSERT	Line	e 3	(39) v	

- 2. Use **PUT-DOWN** five times. All five lines are retrieved in reverse order from the pick buffer and the file is restored to its previous state.
- 3. Repeat steps 1 and 2 using **DELETE** and **RESTORE** instead of **PICK-UP** and **PUT-DOWN**.

Although **PICK-UP** and **DELETE** are similar in function, they store text in different buffers. This permits you to **PICK-UP** text for a move and continue editing while making permanent deletions with **DELETE** without disturbing your pick buffer. You can then **PUT-DOWN** the text at the appropriate location.

4.6 Adding Blank Lines and Splitting Lines

INSERT inserts a blank line above the cursor line and moves the rest of the lines down. **ENTER INSERT** splits the current line at the cursor position and moves the text to the right of the cursor to the next line. **ENTER** *number* **INSERT**, where *number* is the number of lines, inserts the specified number of lines at the cursor position and moves the rest of the lines down.

Practice adding blank lines and splitting lines:

- 1. With the cursor on the last I on the third line, use **ENTER INSERT**. The line is split at the cursor position.
- 2. With the cursor on the fourth line, use **INSERT**. A blank line appears at the cursor position and the text on and below the cursor line is moved down one line. The cursor is positioned on the blank line at the column in which it was located when **INSERT** was used.
- 3. Position the cursor at the beginning of the blank line and type It is so easy to use.
- 4. Position the cursor at the I on the third line, and split the line by using **ENTER INSERT**. The part of the line beginning with I moves to the next line and the cursor is located one space after the comma:

1	t	t	t	t	t	t	t	t	t	r	
Preli	iminary r	eport by	Pat:								
As yo	ou can se	e,									
I got	I got the hang of the system in just a few short hours.										
It is	s so easy	to use									
L .											
the	it nard	to delle can alre	ve i usec	1 to re. +bat +1	iy so nea hia avata	will a will a	personn need th	er and po ings up	aper 11	•	
immer	selv.	cun alle	auy terr	chat th	uis syste		peca ca.				
I hav	ve review	ed all c	opy and a	ad desig	gns for G	uikSell	as you i	equeste	a. Joi	nn	
and 1	agree t	hat "Qui	kSell Mal	kes the	Hard Sel	1 Easy"	is a gro	eat them	e, but		
Corn	The ph	re just oto of h	too stuf:	ty for a	a progres	sive you	ng compa	ing doe	wulkse an't ha	NVA	
the	impact we	're look	ing for-	-this c	lient des	erves so	mething	as dyna	nic as		
their	product				uou						
I red	commend a	less co	nservati	ve appro	oach, alt	hough st	ill usin	ng photo	graphy		
rathe	er than i	llustrat	ions. I	envisi	on a scer	e with o	ne prop	against	a whit	ce	
Dacks	ground.	rrominen	t in the	pictur		liesman s	canding	Denind a	a 		
/usr/l	larry/rep	ort			INSERI	Line	3	(47) v		

- 5. Type so far things are going very well.
- 6. On the second line, use **ENTER** 5 **INSERT**. Five lines are inserted at the cursor position and the other lines in the file are moved down.
- 7. Use **ENTER** 5 **PICK-UP** to remove the five lines and move the rest of the lines in the file up.

4.7 Joining Lines

Sometimes it is necessary to join two adjacent lines. This can be done with **FORMAT**, but **FORMAT** fills all lines in the paragraph to the current margins. Use **ENTER PICK-UP** or **ENTER DELETE** in situations where specific lines are to be joined and the rest of the text should not be filled, as in a list:

- 1. Position the cursor at the end of the fifth line, two spaces after the e in use.
- 2. Use **ENTER PICK-UP**. The line is joined with the line below:

t 1 t ŧ. t ÷ t t t t r Preliminary report by Pat: As you can see, so far things are going well. I got the hang of the system in just a few short hours. It is so easy to use I find it hard to believe I used to rely so heavily on personnel and paper in the past. I can already tell that this system will speed things up immensely. I have reviewed all copy and ad designs for QuikSell as you requested. John and I agree that "QuikSell Makes the Hard Sell Easy" is a great theme, but the visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have the impact we're looking for--this client deserves something as dynamic as their product. I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. Prominent in the picture is a salesman standing behind a tradeshow booth on which appears a sign "Buy Here." A half a dozen or more usr/larry/report INSERT Line 5 (46) v

3. Position the cursor on the third line and use **FORMAT**. Note that all lines in the paragraph are joined.

4.8 Defining Rectangular Areas Using BOX-MARK

It is possible to use the cursor-positioning functions to cursor-define a rectangular area to be moved, inserted, deleted, or copied. (Copying is

covered later in this tutorial.) Cursor-defining is used extensively to move or duplicate words, columns, lines, or paragraphs. Note that you can use **CANCEL** or **ENTER** to cancel a **BOX-MARK** sequence at any time before completion.

To cursor-define and then move a rectangular area:

- Position the cursor at the beginning of the area to be defined and use
 BOX-MARK. A BOX-MARK indicator appears on the character under the cursor; depending on the display, the indicator may consist of highlighting, blinking, or the replacement of the character under the cursor by a graphics character. Also, **** BOX/LINE **** appears below the window on the left-hand side of the display.
- 2. Use the cursor-positioning functions to define the area to be affected. Words, lines, or columns can be cursor-defined. To define complete lines, use 1 to move the cursor down through the area to be affected. Use +LINE or +PAGE to scroll forward if the area extends beyond the display. To define partial lines, use → to move the cursor across the area to be defined. Note that when you define and PUT-DOWN a rectangular area of text that includes partial lines, such as columns, text in the cursor column and to the right is displaced. Refer to \$4.16 for more information about using BOX-MARK to define columns. Some displays highlight the text being defined; others only indicate where the definition begins and ends.
- 3. Use **PICK-UP**. The text is removed and the cursor returns to its original position.
- 4. Move the cursor to a new location and use **PUT-DOWN**. The text is removed from the pick buffer and inserted at the cursor location.

Practice moving text using **BOX-MARK**:

- 1. With the cursor at the beginning of the third line, use **BOX-MARK**. Note that the defined area begins with the line on which the cursor is initially positioned.
- Use 1 to move the cursor four lines down to the blank line, then use PICK-UP. The five lines are removed:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary r	eport by	Pat:							
I have and I the v Corp. the in their	e review agree t isuals a The ph npact we product	ed all c hat "Qui re just oto of b 're look	opy and kSell Mai too stuf: usiness ; ing for-	ad desig kes the fy for a people i -this cl	ns for (Hard Sel progres n a conf ient des	QuikSell ll Easy" ssive you ference r serves so	as you m is a green ng compa oom sett mething	cequested eat theme any like ing does as dynam	l. Joh e, but QuikSe m't ha nic as	nn ell ave
I reco rather backgr trader busing turns impat (life image	ommend a r than i round. show boo ess-peop to buy. iently. should we want	less co llustrat Prominen th on wh le are c They'r The sal be so go and cer	nservati ions. I t in the ich appe rowded a: e writin esman is od!). T tainly h	ve appro envisio picture ars a si round in g out ch taking his, I h as the i	each, alt n a scer s is a sa gn "Buy front o wecks or orders a selieve, mpact wo	though st ne with o alesman s Here." of the bo waving t and check is more e're look	ill usir ne prop tanding A half a oth, wai heir cha s as fas consista ing for	ng photog against behind a a dozen c iting for eckbooks st as he ent with	a whit or more their can the	te s r
Also,	about t	he Corne	rstone C	ondos co	oncept	"Homes Bu	ilt To I	Last" mis	ses tl	he
/usr/l	arry/rep	ort			IN	SERT Line	3	(39)	v	

3. Use **+PAGE**, position the cursor on line 34, and use **PUT-DOWN**. The lines in the pick buffer are restored and moved to the cursor position.

4.9 Adding Lines Using BOX-MARK

Usually **INSERT-MODE** is used for typing words within lines, and **INSERT** is used to add one line at a time. For major additions, either add text while insert mode is in effect or **INSERT** a few lines before beginning to type.

INSERT ing a large area helps prevent typing over the material that follows the insertion. If there are extra blank lines remaining when the insertion has been typed, **DELETE** them. To **INSERT** a large area quickly, cursor-define the area by using **[]**. Use **+LINE** or **+PAGE** to scroll forward if the defined area extends beyond the display. Cursor-defining to create blank lines requires three steps:

- 1. Position the cursor at the beginning of the area to be opened and use **BOX-MARK**.
- 2. Use 1 to move the cursor down the remaining number of lines to be inserted.
- 3. Use **INSERT**. The cursor returns to its original position and blank lines are available for input.

Practice inserting lines using **BOX-MARK**:

- 1. Use **+LINE**.
- 2. Position the cursor on line 39 and use **BOX-MARK**.
- 3. Use \blacksquare to move the cursor six lines down.
- 4. Use **INSERT**. Seven blank lines are inserted in the text:

1 t t t t t t t ŧ. t r He couldn't care less about how long the home will last. He wants a lifestyle and a low down payment. I say we go with a headline that expands this message, such as "Our long list of standard features will raise your standard of living more than you ever thought possible -- for just \$1,500 down." (I'll buy two for my kids right now!) As you can see, so far things are going well. I got the hang of the system in just a few short hours. It is so easy to use I find it hard to believe I used to rely so heavily on personnel and paper in the past. I can already tell that this system will speed things up immensely. Preliminary comments from Larry: 50) ^ v /usr/larry/report 39 (TNSERT Line

5. Move the cursor to the beginning of the current line and type the new text as shown below:

1	t	t	t	t	t	t	t	t	t	r	
He c life this stan down	ouldn't c style and message, dard of l ." (I'll	are less l a low do , such as living mon L buy two	about ho own payme "Our lor re than y for my)	ow long ent. I ng list you even tids rig	the home say we go of standa thought ght now!)	will 1 with rd fea possib	ast. He a headlin tures wil lefor j	wants a le that l raise ust \$1,	expands your 500		
As y in j used tell	As you can see, so far things are going well. I got the hang of the system in just a few short hours. It is so easy to use I find it hard to believe I used to rely so heavily on personnel and paper in the past. I can already tell that this system will speed things up immensely.										
Prel	iminary c	comments :	from Jane	et:							
I re bit all	I read it all, and it looks ok to me. Pat's ideas on the campaign seemed a bit odd to me. Are we going to get together in the next few days to discuss all this?										
	Preliminary comments from Larry:										
/usr/	larry/rep	port			INSERT	Lin	e 43	(50) ^ v		

4.10 Deleting and Duplicating Lines Using BOX-MARK

There are two methods that can be used to delete a paragraph or section from a file. The first is to delete each line individually, and the second is to delete all lines at one time. The first, which uses **DELETE**, may be sufficient for short blocks of text, but is time-consuming if the block is lengthy. The second, which uses **BOX-MARK**, is more efficient for larger blocks of text.

To use **BOX-MARK** to delete a section of text:

- 1. Position the cursor at the beginning of the section to be deleted and use **BOX-MARK**.
- 2. Move the cursor down through the end of the section to be deleted. When deleting a paragraph, include the blank line at the end of the paragraph.
- 3. Use **DELETE**.

The section is deleted and put into the wastebasket buffer. Use **RESTORE** to recover text stored in the wastebasket buffer. Later in this tutorial, you will use this procedure in conjunction with **PICK-UP** and **PUT-DOWN** to move paragraphs, and you will use **PICK-COPY** and **PUT-DOWN** to duplicate paragraphs.

Practice using **BOX-MARK** to delete text:

- 1. Move the cursor to the beginning of line 34 and use **BOX-MARK**.
- 2. Use 1 to move the cursor four lines down to the next blank line and use **DELETE**. The paragraph is deleted.

4.11 Defining Nonrectangular Areas Using TEXT-MARK

A different method of cursor-defining is used to insert, delete, or copy non-rectangular areas of text. This method is usually used on sentences but can also be used on words or lines. Note that you can use \boxed{CANCEL} or \boxed{ENTER} to cancel a $\boxed{TEXT-MARK}$ sequence at any time before completion.

To cursor-define and move a nonrectangular area:

- 1. Position the cursor at the beginning of the area to be defined and use **TEXT-MARK**. A display-dependent indicator appears at the cursor position and ******* TEXT ******* appears below the window on the left-hand side of the display whenever **TEXT-MARK** is used.
- Use the cursor-positioning functions to define the area to be affected. Use [] or **RETURN** to define full lines and →, →, **TAB**, or -**TAB** to define partial lines. When partial lines are defined, the character at the final cursor position is not part of the defined area. Some displays highlight the text being defined; others only indicate where the definition begins and ends.
- 3. Use **PICK-UP**. The text is removed, and the cursor returns to its original position.
- 4. Move the cursor to the insertion location and use **PUT-DOWN**. The text is removed from the pick buffer and inserted at the cursor location. Text at and to the right of the cursor position is moved right.

Practice using **TEXT-MARK** to move a nonrectangular area:

- 1. With the cursor on line 36, position the cursor at the P in Pat and use **TEXT-MARK**.
- 2. **RETURN**, then use \rightarrow to move the cursor to the A in Are.
- 3. Use **PICK-UP**. The sentence is removed, and the text that was previously located after the sentence moves to the cursor position. Notice that line 36 extends beyond the right-hand window margin.
- 4. Use **FORMAT** to readjust the text.
- 5. Position the cursor on line 37, three spaces after the question mark, and use **PUT-DOWN**. The text is removed from the wastebasket buffer and is inserted in the file.

4.12 Deleting or Moving Sentences Using TEXT-MARK

When deleting or moving text areas that include both full and partial lines, the fastest and most efficient way to cursor-define the area is to use **TEXT-MARK**. The procedure for deleting or moving a block of text is:

- 1. Position the cursor on the first character to be deleted or moved and use **TEXT-MARK**.
- 2. **RETURN** through any full lines to be deleted or moved.
- 3. Position the cursor on the first character not to be deleted or moved.
- 4. Use **DELETE** to remove the block; use **PICK-UP** to move the block.

If **DELETE** is used, the section is placed in the wastebasket buffer. Recover text stored in the wastebasket buffer with **RESTORE**. If **PICK-UP** is used, the section is placed in the pick buffer. Recover text stored in the pick buffer with **PUT-DOWN**.

Practice using **TEXT-MARK** on the report file:

- 1. **GO-TO** the beginning of the file.
- 2. Position the cursor on the I on line 11 and use **TEXT-MARK**.
- 3. **<u>RETURN</u>**, then use → to move the cursor to the P in Prominent.
- 4. Use **PICK-UP**.
- 5. Position the cursor at the A on line 12 and use **PUT-DOWN**. The sentence is inserted:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary :	report by	7 Pat:							
I hav	e review agree 1	wed all d that "Qui	opy and kSell Ma	ad desig	gns for Q Hard Sel	uikSell 1 Easy"	as you : is a gro	requested	l. Jol	n
the v Corp.	isuals a The pl	are just hoto of h	too stuf	fy for a people	a progres in a conf	sive you erence r	ng company	any like ing does	QuikSe	ell ave
the i their	mpact we	e're loo) t.	ting for-	-this c	lient des	erves so	mething	as dynam	nic as	
I rec rathe trade	ommend a r than : show boo	a less co illustrat oth on wh	onservati tions. P nich appe	ve appro rominen ars a s	oach, alt t in the ign "Buy	hough st picture Here."	ill usi is a sa I envis	ng photog lesman st ion a sce	raphy anding	g be th o
backg busin turns	round. ess-peo to buy	A half a ple are o . They's	a dozen o: crowded a: ce writin	r more round in g out cl	n front o hecks or	of the bo waving t	oth, wa heir ch	iting for eckbooks	their	r
(life image	should we want	be so go t and cen	od!). T	his, I has the	believe, impact we	is more 're look	consist	ent with	the	
Also,	about	the Corne	erstone C	ondos c	oncept"	Homes Bu	ilt To I	Last" mis	sses tl	ne
/usr/l	arry/re	port			INSERT	' Line	12	(45)) V	>

Note that the end of the third line in the paragraph is outside the right-hand window border.

- 6. Use **FORMAT** to move the text inside the window.
- 7. Position the cursor at the P in Prominent on line 11 and use **TEXT-MARK**.
- 8. **RETURN**, then use \rightarrow to move the cursor to the I at the beginning of the next sentence.
- 9. Use **PICK-UP**. The marked text is deleted:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary n	eport by	Pat:							
I hav and I the v Corp. the i their	ve review agree t visuals a The ph impact we product	wed all c that "Qui are just noto of b e're look	opy and kSell Ma too stuf usiness ing for-	ad desig kes the fy for a people i -this cl	ns for Qu Hard Sell progress n a confe ient dese	ikSell Easy" ive you rence r rves so	as you n is a gre ing compa coom sett pmething	equested at theme any like ing does as dynam	l. Joh , but QuikSe n't ha nic as	nn ell ave
I rec rathe scene busin turns impat (life image Also, mark.	commend a er than i e with or aess-peop s to buy. iently. e should e we want about to These	a less co illustrat be prop a ole are c . They'r The sal be so go . and cer	nservati ions. I gainst a rowded a e writin esman is od!). T tainly h rstone C pensive	ve appro envisio white b round in g out ch taking his, I b as the i ondos co condos w	ach, alth on a background a front of tecks or w orders an believe, i mpact we' oncept"H those bigg	ough st . A ha the bo aving t d check s more re look comes Bu est sel	all usin alf a dog oth, wai cheir che is as fas consiste ting for allt To I ling poi	ng photog ten or mo ting for eckbooks st as he ent with tast" mis int is th	raphy re thein can the ses th eir	r
usr/1	larry/rej	port			INSERT	Line	e 11	(44)	v	

10. Use **FORMAT** to fill the paragraph.

4.13 Moving Words, Lines, and Paragraphs

PICK-UP is used to move words, lines, or sentences. It removes the text and places it in the pick buffer. To relocate the text, position the cursor at the new location and use **PUT-DOWN**. The last picked-up text is placed at the cursor position. To move a single line, use **PICK-UP**, position the cursor at the new location, and use **PUT-DOWN**. To move words, sentences, lines, or paragraphs, use **BOX-MARK** or **TEXT-MARK** to cursordefine the area before using **PICK-UP**.

Practice using **PICK-UP** and **PUT-DOWN** to move single lines:

- 1. Use **ENTER GO-TO** to move to the end of the file.
- 2. Beginning on line 47, type:

1 ÷ ÷ ÷ ÷ ÷ ÷ ÷ t ŧ. r I read it all, and it looks ok to me. Are we going to get together in the next few days to discuss all this? Pat's ideas on the campaign seemed a bit odd to me. Preliminary comments from Larry: After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign. We should meet with the following people before the end of the week: J. Winkler L. Larson D. Adams L. Pantages P. Sternig usr/larry/report INSERT Line 53 (54) ^

3. Alphabetize the list by using **PICK-UP** on each line to be moved, positioning the cursor at the location where you want the line moved, and using **PUT-DOWN**:

1 ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ r I read it all, and it looks ok to me. Are we going to get together in the next few days to discuss all this? Pat's ideas on the campaign seemed a bit odd to me. Preliminary comments from Larry: After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign. We should meet with the following people before the end of the week: D. Adams L. Larson L. Pantages P. Sternig J. Winkler /usr/larry/report INSERT Line 52 (52) ^ v

4.14 Duplicating Words, Lines, and Paragraphs

<u>PICK-COPY</u> and <u>**PUT-COPY**</u> are used to pick up a copy of text (*without* altering the file) and subsequently put one or more copies down.

PUT-COPY differs from **PUT-DOWN** in that **PUT-COPY** does not remove the text from the pick buffer. To copy a single line, use **PICK-COPY**, position the cursor at the new location, and use **PUT-COPY** or **PUT-DOWN**. To copy words, sentences, multiple lines, or paragraphs, use **BOX-MARK** or **TEXT-MARK** to cursor-define the area before using **PICK-COPY**.

If multiple copies of the text are needed, position the cursor where the picked text is to be placed and use $\boxed{PUT-COPY}$. The picked text can be copied into the file as many times as needed; it stays at the top of the pick buffer until you:

- 1. Use **PICK-UP** or **PICK-COPY** to place new text at the top of the pick buffer.
- 2. Use **PUT-DOWN**, thereby removing it from the pick buffer.

Practice using **PICK-COPY** and **PUT-COPY** to duplicate sentences and paragraphs:

- 1. Position the cursor at the W in We on line 47, then use **BOX-MARK**.
- 2. Use **[]** to move the cursor six lines down to the J in J. Winkler, then use **PICK-COPY**. The lines are stored in the pick buffer.
- 3. Position the cursor at the beginning of line 39, then use **PUT-COPY**. The lines are copied from the pick buffer into the file:

t t t ÷ ÷ ÷ ÷ ÷ ÷ r I read it all, and it looks ok to me. Are we going to get together in the next few days to discuss all this? Pat's ideas on the campaign seemed a bit odd to me. We should meet with the following people before the end of the week: D. Adams L. Larson L. Pantages P. Sternig J. Winkler Preliminary comments from Larry: After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign. We should meet with the following people before the end of the week: /usr/larry/report INSERT Line 39 (60) ^ v
4.15 Inserting, Moving, Deleting, and Duplicating a Specific Number of Lines

A simple way to **INSERT** blank lines when inserting a block of text is to use a numeric argument specifying the number of lines to be inserted. (Excess blank lines can be **DELETE** d after typing the insertion.) Numeric arguments can also be used when moving, deleting, or duplicating a specific number of lines.

To insert, move, delete, or duplicate a specific number of lines:

- 1. Use ENTER.
- 2. Type a numeric argument indicating the number of lines to be affected.
- 3. Use INSERT, PICK-UP, DELETE, or PICK-COPY.

If this method is used to **PICK-COPY**, **DELETE**, or **PICK-UP** lines, **PUT-COPY**, **RESTORE**, or **PUT-DOWN** can be used to move or copy the lines.

Practice using **ENTER** with a numeric argument to delete a specific number of lines:

- 2. Position the cursor at the W in We on line 54.
- 3. Use ENTER.
- 4. Type the number 7.
- 5. Use **DELETE**. The seven lines beginning with the cursor line are removed from the file and stored in the wastebasket buffer:

^{1.} Use **+LINE**.



4.16 Opening, Moving, Deleting, and Duplicating Columns

BOX-MARK can be used to open, move, delete, and duplicate columns. To mark a column using **BOX-MARK**:

- 1. Position the cursor at the top left-hand corner of the column, then use **BOX-MARK**.
- 2. Use 1 to move the cursor to the last line in the column.
- 3. Use \implies to move the cursor across the width of the column.

To open the column, use **INSERT**. To move the column, use **PICK-UP**, position the cursor at the location where the column is to be moved, and use **PUT-DOWN**. To copy the column, use **PICK-COPY**, position the cursor at the location where the copy is to be placed, and use **PUT-DOWN**.

Practice using **BOX-MARK** to copy, move, and delete columns:

- 1. Use -LINE.
- 2. Position the cursor on line 41 and complete the list, adding titles and extensions:

t t t 1 ÷ ÷ ÷ ÷ ÷ ÷ r next few days to discuss all this? Pat's ideas on the campaign seemed a bit odd to me. We should meet with the following people before the end of the week: D. Adams ext 25 Director L. Larson ext 17 Graphic Artist ext 21 L. Pantages Consultant P. Sternig ext 14 Marketing Manager J. Winkler ext 19 Consultant Preliminary comments from Larry: After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign. /usr/larry/report INSERT Line 45 (53) ^

- 3. Position the cursor on the e in ext 25, then use **BOX-MARK**.
- 4. Use \prod to move the cursor to the last line in the list.
- Use → to move the cursor across to the C in Consultant and use PICK-COPY.
- Copy the column by positioning the cursor at the D in Director and using <u>PUT-DOWN</u>:

1 ŧ. ÷ ÷ t t t ÷ ÷ ÷ r next few days to discuss all this? Pat's ideas on the campaign seemed a bit odd to me. We should meet with the following people before the end of the week: D. Adams ext 25 ext 25 Director L. Larson ext 17 ext 17 Graphic Artist L. Pantages ext 21 ext 21 Consultant ext 14 P. Sternig ext 14 Marketing Manager J. Winkler ext 19 ext 19 Consultant Preliminary comments from Larry: After a brief review of the accounts, it seems to me Pat's insight and recommendations are all valid. I'll begin working up some new copy for the campaign. We should meet with the following people before the end of the week: 53) ^ /usr/larry/report INSERT Line 41 (

Note that when you define and **PUT-DOWN** a rectangular area of text in this way, text in the cursor column and to the right is displaced to the right. Follow the same procedure using **PICK-UP** and **PUT-DOWN** to move the column, or **DELETE** to remove the column. It is also possible to **INSERT** a blank area within text by using the same procedure.

- 7. Remove the second column by positioning the cursor at the e in the first occurrence of ext 25.
- 8. Use **BOX-MARK** [] to move the cursor to the last line in the list.
- 9. Use → to move the cursor across to the e in the second occurrence of ext 19, then use **DELETE**. The column is deleted.

4.17 Moving to a Specific Line in a File

To move directly to a specific line in a file:

- 1. Use ENTER.
- 2. Type the number of the desired line.
- 3. Use **GO-TO**.

Practice moving to a specific line in the file. When you feel comfortable with the procedure, use **ENTER GO-TO** to return to the end of the file.

4.18 Searching for Specific Text

The fastest way to locate specific text throughout a document is by searching. To initiate a search for occurrences of a character string, word, or group of words, search forward with **+SEARCH** or backward with **-SEARCH**.

To search for other occurrences of a specific word showing in the window:

- 1. Position the cursor at the beginning of the word.
- 2. Use **ENTER** +SEARCH to search from the cursor position to the end of the file. Use **ENTER** -SEARCH to search from the cursor position to the beginning of the file.

The system only searches for one word, the word at the cursor position. A word includes any punctuation within or immediately following the word at the cursor position. Thus, if the cursor is positioned on a word followed by a punctuation mark and a search is initiated, the system only searches for occurrences of the word that include the same punctuation.

To search for a particular word or words at which the cursor is not yet positioned:

- 1. Use ENTER.
- 2. Type the word or words.
- 3. Use +SEARCH or -SEARCH.

Avoid unnecessary typing by searching for the shortest possible unique string within the word or string you wish to locate. For example, type SPE to search for SPECIAL or The sing to search for The single when the word single appears often in the file. This is an efficient way to reach the next revision point.

During a search, the searched-for word or string is stored in the search buffer. Thereafter, search for the next occurrence of the word or string by using **+SEARCH** or **-SEARCH**, without **ENTER**. When no further occurrences of the word or string are found, the system responds Search failed on string "string".

The system searches for an exact character match. For example, a search for the word office finds offices, but not Office (because of the capital O). To find both occurrences of the word, search for ffice. Searches are done within single lines; words or strings that split across lines are not found. For example, a search for home directory will not find occurrences of that string where a line ends with home and the next line begins with directory.

Practice searching for specific text using +SEARCH and -SEARCH:

- 1. **GO-TO** the beginning of the file.
- 2. Use **ENTER** Condos **+SEARCH** to search forward for the word Condos.
- 3. Continue using **+SEARCH**. When all occurrences of a string have been found, the system responds with the message Search failed on string "Condos". Use **CANCEL** to remove the message.
- 4. **GO-TO** the beginning of the file and search for the word condos by using **ENTER** condos **+SEARCH**. Note that for search purposes, Condos and condos are two different words. A search for one does not locate the other.

5. **GO-TO** the beginning of the file, then look for an occurrence of the string ondos. Note that the system finds the string in both Condos and condos. It is not necessary to type complete words; only the portion that makes the character string unique is necessary.

4.19 Performing Individual Search and Replace

At times you may want to replace many, but not all, instances of a word or words with another word or words. This is possible by putting the replacement string in the replace buffer. This buffer is associated with $\boxed{\textbf{REPLACE}}$.

To replace a string with another string:

- 1. Search for the word or string to be replaced by using **ENTER** string **+SEARCH**. The word or string is put in the search buffer and the search is initiated.
- 2. When an occurrence of the string to be replaced is located by the system, use **ENTER** replacement string **REPLACE**. The replacement string is put in the replace buffer and the replacement occurs.
- 3. Use **+SEARCH** to continue searching for the string to be replaced. Use **REPLACE** when you wish to substitute the replacement string.

Practice using **REPLACE** by replacing Condos with condos:

- 1. **GO-TO** the beginning of your file.
- 2. Use ENTER Condos +SEARCH.
- 3. Use ENTER condos REPLACE.

4.20 Accessing Two or More Files

Occasionally it is helpful to view two or more files simultaneously. When moving or copying text from one file to another the ability to view both files at once eliminates the need to type the same material twice. At other times it is necessary to refer to text in another file for ideas and guidance.

There are two ways to access multiple files. The first permits you to jump between two files, viewing each file full-display, and the second permits you to split the editing window into smaller windows for simultaneous viewing of multiple files.

Any two files can be used as alternate files. You can also use this feature to view two portions of the same file. If the alternate files are the same file, a change made to one copy is also made to the other. Multiple alternate files can be accessed in a single editing session. 4.20.1 Viewing an Alternate File. To create or view an alternate file:

- 1. Access the first file.
- 2. Use **ENTER**, then type the name of the second file.
- 3. Use USE to bring the second file onto the screen. If the second file does not exist, or if you mistyped the name of an existing file, the file creation menu will appear on the screen. Either select one of the options to create a new file, or select the Re-enter the file name option, type the correct file name into the popup box that displays, and use **EXECUTE**. The second file will appear on the screen.
- 4. Use **USE** to alternate between the two files. The name and line number of the displayed file are printed at the bottom of the screen.

4.20.2 Creating Multiple Windows. Two (or more) files or several different sections of the same file may be in constant view by dividing the window into smaller, multiple windows.

To create a window, the cursor must be positioned at the division point. To create a horizontal window, position the cursor on the line where the window is to be divided. To create a vertical window, position the cursor on the first line of the window at the desired division point.

The following diagrams show the cursor positions for creating vertical and horizontal windows. These particular cursor positions are only examples; you may create windows of any size you choose.





To create a window:

- 1. Position the cursor at the appropriate location, use **ENTER**, then type a file name.
- 2. Use **WINDOW**. If the file is an existing file, that file appears in the window. If the file is the file you are currently editing, that file appears in the window and you may edit or view another section of it. If you type the name of a file you wish to create, the instruction box for creating new files appears.
- 3. Use **EXECUTE** to create the file if it does not yet exist.
- 4. Use **NEXT-WINDOW** to change windows. If there are more than two windows, **NEXT-WINDOW** moves the cursor from window to window in the order in which the windows were created.
- 5. Use **ENTER WINDOW** to remove windows. All windows except the one in which the cursor currently resides are removed.

Use this exercise to practice making windows and using alternate files:

- 1. In the report file, use **ENTER** report **USE**. The report file is now the current and alternate file.
- 2. Use **ENTER GO-TO** to move to the end of the current file.
- 3. Use **USE** to switch back and forth between the current and alternate files.
- 4. In either the current or alternate file, position the cursor part way down the window, then use **ENTER** report **WINDOW** to create a horizontal window containing the report file.

- 5. Use **NEXT-WINDOW** to switch back and forth between windows.
- 6. Use **+PAGE**, then use **NEXT-WINDOW**. Note that different parts of the file are displayed in each window.
- ZOOM-OUT of the files. Although this exercise used the file report as the alternate and "window" files, you can use USE,
 WINDOW, and NEXT-WINDOW to access many different files at one time.

5. THE FILE MANAGER

The File Manager is the primary utility used to create, access, and delete files and directories. The directory you entered at login is called your home directory (\$HOME); the screen used to display a directory is called the File Manager display. The File Manager display should be visible on your screen now. If you are in a file, **ZOOM-OUT** to return to the File Manager display of your home directory:

1	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.		
File	Description		
1988.cal mesg phone policies report	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project		
/usr/larry	INSERT Line 1 (5)		

5.1 Copying Files

Sometimes a duplicate of a file that already exists is needed. Instead of retyping the text, you may prefer to copy the original document. The File Manager allows you to copy a file simply and easily using **PICK-COPY** and **PUT-DOWN**. You can also copy multiple files using **BOX-MARK** or **ENTER** motion with **PICK-COPY** and **PUT-DOWN**.

- 1. Move the cursor to the line describing your report file and use **PICK-COPY**. The cursor will automatically move to the next line.
- 2. Use **PUT-DOWN**; a popup box will appear:

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b	INTERACTIVE TEN/PLUS FILE MANAGER love the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal mesg policies report report ^ File name " Fress CANCE or enter a	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project First Report on the QuikSell Project report" already exists. L to abort file restore, new name:
/usr/larry	INSERT Line 6 (6)

3. Use **HELP** for additional information about the messages in popup boxes on your screen:

Move	INTERACTIVE TEN/PLUS FILE MANAGER the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal mesg phone policies report report ^ Vou are trying directory that that name. Yo or type CANCED	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project First Report on the QuikSell Project g to restore a file into a c already contains a file by bu can type in a different name c to abort the restore.
/usr/larry	INSERT Line 6 (6)

4. Use **CANCEL** to remove the **HELP** popup box. Since file names must be unique, type a new file name:

Мо	INTERACTIVE TEN/PLUS FILE MANAGER ove the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal mesg policies report report ^ File name " Press CANCE or enter a n	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project First Report on the QuikSell Project report" already exists. I to abort file restore, new name: test
/usr/larry	INSERT Line 6 (6)

5. Use **EXECUTE**. The copy is renamed as specified:

INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.		
File	Description	
1988.cal mesg phone policies report test	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project First Report on the QuikSell Project	
/usr/larry	INSERT Line 6 (6)	

6. Change the descriptive information, using **ENTER DELETE-CHARACTER** to remove extra characters:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.		
File	File Description		
1988.cal mesg phone policies report test	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project Test File		
/usr/larry	INSERT Line 6 (6)		

7. You now have two copies of your report file, one called report and one called test. **ZOOM-IN** to your new test file if you wish to verify that it contains the same information as your report file.

5.2 Renaming Files

You can rename a file by typing over the current file name:

- 1. Switch to overwrite mode by using **INSERT-MODE**, then change the name of the test file to copy by typing over the name.
- 2. Use **INSERT-MODE** to switch back to insert mode.

5.3 Deleting Files

There are two ways to delete a file, **PICK-UP** and **DELETE**. **PICK-UP** and **DELETE** can also be used with **BOX-MARK** or **ENTER** motion to delete multiple files.

PICK-UP deletes a file and places it in the pick buffer. **PUT-DOWN** removes the file from the pick buffer and replaces it in your directory. You will use **PICK-UP** to move a file from one directory to another in \$5.7. It is recommended that you use **PICK-UP** when you wish to move a file from one location to another.

DELETE removes a file and places it in the wastebasket buffer. **RESTORE** removes the file from the wastebasket buffer and replaces it in your directory. It is recommended, however, that you use **DELETE** to permanently remove a file.

- 1. Position the cursor on the line describing the copy file.
- 2. Use **DELETE** to remove the copy file from your directory:

INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.		
File	Description	
1988.cal mesg phone policies report	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project	
/usr/larry	INSERT Line 6 (5)	

5.4 Path Names and Directory Structure

The system identifies you by your user name. Similarly, the system identifies your files by the file names you assign and stores them in a directory structure (filing system) that you arrange. The name of the directory where you are currently located is indicated at the bottom left of the File Manager display. In our example the name of the current directory is /usr/larry. The name /usr/larry is also the "path name" of this directory. A path name consists of a / followed by one or more directory names separated by /s. The / that begins the path name is the first directory name in the series is the current directory—in this case, your home directory, larry. A path name is the sequence of directories from the root directory to the file or directory you wish to reference.

The diagram below illustrates how a directory structure is configured (each directory is indicated by a \dagger). Only the files in the directory /usr/larry are shown:

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The diagram illustrates how the path name of a directory identifies that directory's placement in the directory structure. As you create and delete files and directories, your directory structure will change to reflect the additions and deletions that you make. You can **ZOOM-IN** and **ZOOM-OUT** to move around the directory structure:

1. **ZOOM-OUT** to the directory above your home directory:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.	
File	File Description	
larry user2 user3	Larry's Home Directory User2's Home Directory User3's Home Directory	
/usr	INSERT Line 1 (3)	

 Practice using <u>ZOOM-IN</u> and <u>ZOOM-OUT</u> to explore the directory structure. If you get lost, you can always return to your home directory via the Show home directory <u>MENU</u> option discussed in §2.3.

5.5 Creating Directories

So far you have worked on files in your home directory. Now you will create a subdirectory to contain files for a particular project:

1. Position the cursor on the line describing the file report, then use **INSERT**. Type a directory name and some descriptive information:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal mesg phone policies quiksell report	Calendar My Incoming Messages Company Telephone Book Company Policies GuikSell Project Directory First Report on the QuikSell Project
/usr/larry	INSERT Line 5 (6)

2. **ZOOM-IN** on the line describing the new directory; a menu will appear:

INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.			
File	Description		
1988.cal mesg phone policies	1988.cal Calendar mesg My Incoming Messages phone Company Telephone Book policies Company Policies		
You are attempting to create file "/usr/larry/quiksell" Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise, CANCEL to remove the menu, or HELP to display help information.			
Create an ASCII file (without history) Create a structured file (with history) Create a directory Re-enter the file name			
/usr/larry	INSERT Line 5 (6)		

- 3. Position the cursor on Create a directory and **EXECUTE**. A blank File Manager display for the quiksell directory will appear on the screen.
- 4. **ZOOM-OUT** to your home directory.

5.6 Moving Files Between Directories

You can move a file from one directory to another with **PICK-UP** and **PUT-DOWN**. Move the report file from your home directory to your new quiksell directory:

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- 1. With the cursor on the line describing the report file, use **PICK-UP**.
- 2. Move the cursor to the line describing the quiksell directory, then **ZOOM-IN**.
- 3. Use **PUT-DOWN** to complete the move.

You can also move multiple files between directories by using **BOX-MARK** or **ENTER** motion with **PICK-UP** and **PUT-DOWN**.

5.7 Copying Files Between Directories

Use **<u>PICK-COPY</u>** and <u>**PUT-DOWN**</u> to make a copy of the report file and place it in your home directory:

- 1. With the cursor on the line describing the report file, use **PICK-COPY**.
- 2. **ZOOM-OUT** to your home directory and use **PUT-DOWN**. You now have a copy of the report file in both your home directory and your quiksell directory.

You can also copy multiple files between directories by using **BOX-MARK** or **ENTER** motion with **PICK-COPY** and **PUT-DOWN**.

Note that the system does not ask you to type a new file name as it did when you tried to create a copy of the report file in the same directory as the original. The system allows you to have files of the same name in different directories because the path name of each remains unique. In this case, the two path names are /usr/larry/report and /usr/larry/quiksell/report:



5.8 Alternate Methods of Changing Directories

So far, you have used **ZOOM-IN** and **ZOOM-OUT** to change directories. There are, however, alternate methods for doing this. 5.8.1 Full and Relative Path Names. You can move from one directory to another with **ENTER** pathname **USE**. A path name that does not begin with a \checkmark is called a "relative" path name and tells the system to search downward from your current directory. You can give the system a relative path name if the target directory is on a direct path below your current directory.

For example, the quiksell directory is in your home directory and is therefore on a path below your home directory:

- 1. In your home directory, use **ENTER** and type the directory name quiksell.
- 2. Use **USE**; the File Manager display for the quiksell directory will appear on your screen.

In this example, you have given the path name of the target directory relative to your location within the directory structure; that is, a path name that does not begin with a /.

A full path name begins with a / and tells the system to begin its search from the root directory. To access a directory above your current directory, use the full path name to the target directory. For example, to move from the quiksell directory to the home directory of user2 in the above diagram, you should provide the system with the full path name to user2's home directory. This is necessary because user2's home directory is located above your current location, the quiksell directory. In our example, the full path name to user2's home directory is /usr/user2. To move to that directory, use ENTER /usr/user2 USE.

5.8.2 Parent Directories. A "parent" directory is the directory located immediately above your current directory. You can use **ENTER** ... **USE** to change from a directory to its parent directory. **ENTER** ... **USE** moves you one level up in the directory structure. For example, you can move from the quiksell directory to its parent directory, larry, with the sequence **ENTER** .. **USE**. The two dots take the place of the parent directory name. Practice the sequences **ENTER** directoryname **USE** and **ENTER** .. **USE** to move back and forth between the quiksell directory and its parent directory. Because the quiksell directory and its parent directory are now the current and alternate files, respectively, you can move between them with **USE**.

Note that you can create a new directory or file with **ENTER** *filename* **USE** by providing the system with a name for a new directory or file. The system will display a popup box asking you to choose the type of file you

wish to create. Select the appropriate option to create the directory or file. Use **CANCEL** to remove the popup box without creating a directory or file.

5.9 Removing Directories

You can remove a directory just as you remove a file, with either **PICK-UP** or **DELETE**. It is suggested that you use **PICK-UP** and **PUT-DOWN** to move a directory from one location to another and **DELETE** to remove a directory. When you remove a directory, all files and subdirectories located within that directory are also removed:

1. With the cursor on the line describing your quiksell directory, use **DELETE**. The message Saving directory hierarchy "quiksell" will appear. Both the quiksell directory and the report file contained within it are removed.

You can use **RESTORE** to recover a directory deleted the last time you used **DELETE** but only during the same editing session in which the directory was removed. Once you have exited the TEN/PLUS environment, the buffers that hold deleted files and directories are cleared.

2. Use **RESTORE** to restore the deleted quiksell directory. Both the quiksell directory and the report file within it are restored.

PICK-UP and **DELETE** can also be used with **BOX-MARK** and **ENTER** *motion* to remove multiple directories.

5.10 Recovering Directories From .putdir

The TEN/PLUS File Manager maintains a safety back-up area where deleted files and directories are stored. This safety area allows you to recover files and directories that you have mistakenly deleted. The default location is a directory called .putdir in your home directory. Files and directories placed in .putdir by the system remain there until you specifically remove them. Files and directories placed in .putdir are removed whenever you select Housekeep from your New Task Menu.

1. With the cursor on the line describing the quiksell directory, use **DELETE**.

A copy of the quiksell directory and all files and subdirectories contained within it is now located in /usr/larry/.putdir. You have not seen .putdir listed in your home directory because files and directories whose names begin with a . are not usually visible in the directory display; they are hidden by the system. **LOCAL-MENU** provides a way to list such hidden files.

2. Use **LOCAL-MENU**:

\int	M	INTERACTIVE TEN/PLUS FILE ove the cursor to an item below and	E MANAGER 1 ZOOM-IN to see it.
	File	Descrip	otion
19 me pl	988.cal esg none	Calendar My Incoming Messages Company Telephone Book	
r	Select a m cursor to CANCEL to help infor	File Manager enu option (for example, move the an item and EXECUTE); otherwise, remove the menu, or HELP to display mation.	ct
	(1) D (2) D R (4) S (5) S S	isplay "visible" files isplay all files eturn to normal directory display how details about files how more details about this file how more details about this file	
/u:	sr/larry	INSERT	Line 5 (5)

- 3. Select (2) Display all files.
- 4. **GO-TO** the top of the directory listing:

Mov	INTERACTIVE TEN/PLUS FILE MANAGER the cursor to an item below and ZOOM-IN to see it.
File Description	
	Calendar My Incoming Messages Company Telephone Book Company Policies First Report on the QuikSell Project
/usr/larry	INSERT Line 16 (16)

The directory listing now includes the names of a number of "hidden" files, most of which are created and used internally by the system. The hidden files that will be discussed in this tutorial are .putdir, .bak, .old, .index, and .* files. See §5.13 for more information about these hidden files.

5. With the cursor on the line containing the name .putdir, **ZOOM-IN**. The File Manager display for the .putdir directory will appear on the screen:



Files and directories are saved in .putdir under their original file names prefixed with a number. The system uses such a prefix in order to avoid duplicate file names in .putdir. The quiksell directory, for example, is saved in .putdir under the name 0.quiksell. The descriptive text from the Description field is not saved.

- 6. To recover the quiksell directory, move the cursor to the line containing the directory name and use <u>PICK-COPY</u>. Do not use <u>PICK-UP</u> in the .putdir directory unless you wish to completely remove the file or directory from the system. Files and directories removed from .putdir with <u>PICK-UP</u> or <u>DELETE</u> cannot be <u>PUT-DOWN</u> again.
- 7. **ZOOM-OUT** to your home directory, then use **PUT-DOWN**. The quiksell directory is restored. Remove the number prefix from the directory name, if you wish, and replace the descriptive text. Note that your home directory listing still shows the names of your hidden files. You can remove hidden file names from the listing by

using **LOCAL-MENU** and selecting (1) Display "visible" files.

Since all files and directories deleted from the File Manager display are placed in your .putdir directory, it is a good practice to periodically clean up that directory with **PICK-UP** or Housekeep. This will free disk space for your current files. Files and directories removed from .putdir with **PICK-UP** or Housekeep are permanently removed from the system. On some systems, the system administrator may have .putdir removed periodically.

5.11 File and Directory Permissions

Each TEN/PLUS file or directory has certain default permissions or protections that specify who will have access to it. The owner can change the permissions on a file or directory at any time. There are three different types of permissions: "read," "write," and "execute."

The combination of read and execute permissions on a directory allows you to **ZOOM-IN** and view the listing of files and directories stored there. Read permission on a file allows you to view and copy the contents of that file. The defaults allow read permission on files and directories to all users.

Write permission on a directory allows you to create and delete files in that directory. Write permission on a file allows you to modify that file. The defaults allow write permission on files and directories only to the owner.

The combination of execute and read permissions on a directory allows you to **ZOOM-IN** to that directory and view the listing of files and directories stored there. Execute permission on a directory allows you to access a file in that directory, although without read permission you cannot see the listing of the directory on your screen. If a file is an executable program, execute permission allows you to run that program. The defaults allow execute permission on directories to all users and execute permission on files to no one.

Each set of permissions applies to one of three categories of users: "owner," "group," and "others."

The owner is the person who creates the file or directory. A group often consists of people working on the same project or in the same department. You are usually assigned to a group when you are added as a user to the system. Others refers to everyone on the system who is neither the owner nor in the owner's group. 5.11.1 Changing Permissions on Files and Directories. You can change the permissions on your files and directories through the **LOCAL-MENU** for the File Manager:

1. Use **LOCAL-MENU**:

Move	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.					
File	File Description					
1988.cal mesg phone						
p q Select a men cursor to an CANCEL to rep help information	File Manager u option (for example, move the item and EXECUTE); otherwise, move the menu, or HELP to display tion.	ct				
 (1) Display "visible" files (2) Display all files Return to normal directory display (4) Show details about files (5) Show more details about this file Show more details about this file 						
/usr/larry	INSERT	Line 5 (6)				

A dashed line in front of an option indicates that the option is not available in this situation. The third and sixth options have dashed lines in front of them and are, therefore, not available in this situation. They will become available when you look at details about a particular file or directory as described in step 3 below. You have already used options (1) and (2) to display files in your directory listing. The other options are described below:

- --- Return to normal directory display Returns you to the directory display from either the file status information display or the Detailed File Status Information display.
- (4) Show details about files Displays the file status information display for an entire directory.
- (5) Show more details about this file Can be used to view the Detailed File Status Information display for a particular file either from

the directory listing or from the the file status information display.

- --- Show more details about this file Provides an alternate way to move to the Detailed File Status Information display for a particular file when you are viewing the file status information display.
- 2. Select option (4) Show details about files. A display showing details about the files and directories in your directory listing will appear:

File Name	T	Owner	Size	Modif	ficati	on Date	Permission
1988.cal	r	larry	18	Mar 4	1988	16:46:08	rw- r r
nesg	r	larry	18	Mar 4	1988	17:05:38	rw- r r
phone	r	larry	10	Mar 5	5 1988	10:49:42	rw- r r
policies	r	larry	25	Mar 5	5 1988	12:48:51	rw- r r
uiksell	đ	larry	80	Mar 11	1 1988	12:04:34	rwx r-x r-x
report	r	larry	2488	Mar 11	1 1988	10:25:32	rw- r r

This is a file status information display. The fields in the display contain this information:

File Name

Indicates the name of the file or directory.

т

Indicates the type of the entry; an r indicates a regular file and a d indicates a directory.

Owner

Indicates the owner of the file or directory.

Size

Indicates the size of the file or directory in bytes.

Modification Date

Indicates the date and time the file or directory was last modified.

Permissions

Indicates the permissions for owner, group, and others. An r indicates read permission, a w indicates write permission, and an x indicates execute permission.

You can change the permissions on a file or directory by typing over the existing permissions at this level, or you can use **LOCAL-MENU** to move to a more detailed level, the Detailed File Status Information display.

3. With the cursor on the line describing the report file, use **LOCAL-MENU**:

INTERACTIVE TEN/PLUS System To see detailed file status information, gelect an item and ZOOM-IN.										
File Name	T	Owner	Size	Mod	if	icati	on Date	Per	miss	ions
1988.cal	r	larry	18	Mar	4	1988	16:46:08	rw-	r	r
mesg	r	larry	18	Mar	4	1988	17:05:38	rw-	r	r
phone	r	larry	10	Mar	5	1988	10:49:42	rw-	r	r
pq					7	1988	12:48:51	rw-	r	r
q	q File Manager					1988	12:04:34	rwx	r-x	r-x
r						1988	12:04:34	rw-	r	r
Select a m	enu opt:	ion (for ez	ample, mov	e the				1		
cursor to	an item	and EXECUT	TE); otherw	ise,	1					
CANCEL to	remove	the menu, c	or HELP to	iispla	У			1		
help infor	mation.									
(1)	Display "visible" files									
(2)	Display	y all files	3					1		
(3)	Return	to normal	directory (iispla	y			1		
	Show details about files							1		
(5)	Show me	ore details	about this	s file						
(ZOOMIN)	Show me	ore details	about this	s file						
/usr/larry			IN	SERT	1	Line	6 (6)		

Note that the third and sixth options are now available.

4. Select (5) Show more details about this file or (ZOOMIN) Show more details about this file:

	Detailed File S	tatus Information	n
Description	Full path name: /usr/la File Size in Bytes: File Type: Ordinary Inode: 2053 Director	rry/report 2488 File Size : Number of y ID: 2, 10 Det	in Blocks: 5 Links: 1 vice ID: N. A.
Ownership	Owner of the file: larr Group of the file: staf	y f	Viđ: 229 Giđ: 1
Permissions	Owner: rw- Group Set Uid: - Set G	: r Othe: id: - Save	r: r text image: -
File Access Times	Time of last file acces Time of last data modif Time of last file statu	s: Mar 1 ication: Mar 1 s change: Mar 1	1 1988 10:25:32 1 1988 10:25:32 1 1988 10:25:32 1 1988 10:25:32
/usr/larry	L	INSERT Line	1 (1)

5. With the cursor in the field labeled Permissions, use **INSERT-MODE** to enter overwrite mode. Change the permissions so that users in your group have write permission on the file. Do this by typing a w over the first - in the Group field:

	Detailed File Status I	nformation
Description	Full path name: /usr/larry/rep File Size in Bytes: 2488 42 File Type: Ordinary Inode: 2053 Directory ID: 2	oort 7 File Size in Blocks: 5 Number of Links: 1 4, 10 Device ID: N. A.
Ownership	Owner of the file: larry Group of the file: staff	Uid: 229 Gid: 1
Permissions	Owner: rw- Group: rw- Set Uid: - Set Gid: -	Other: r Save text image: -
File Access Times	Time of last file access: Time of last data modification Time of last file status chang	Mar 11 1988 10:25:32 1: Mar 11 1988 10:25:32 1e: Mar 11 1988 10:25:32
/usr/larry	OVERWRITE	E Line 1 (1)

6. Use **LOCAL-MENU**:

	Detailed File Status Information	
Description	Full path name: /usr/larry/reportFile Size in Bytes:2488 427 File Size in Blocks: 5File Type: OrdinaryNumber of Links: 1Inode:2053Directory ID: 2, 10Device ID:N. A.	
	File Manager	
Ownership	Owner of t Group of t Select a menu option (for example, move the	
	CANCEL to remove the menu, or HELP to display help information.	
Permissions	Owner: rw- Set Uid: - Display "visible" files Display all files (3) Return to normal directory display (4) Show details about files	
File	Time of la Show more details about this file	
Access	Time of la (ZOOMOUT) Show details about files	
Times	Time of la Show more details about this file	
/usr/larry	OVERWRITE Line 1 (1)	

7. Select (4) Show details about files or (ZOOMOUT) Show details about files. You will again be viewing the file status information display.

To deny access to all of the files in a particular directory, you can change the permissions on the directory itself. For example, if users in your group do not have read permission on your quiksell directory, they cannot view the files in that directory even if they have read permission on a particular file.

8. Change the permissions on your quiksell directory so that other users do not have read or execute permission on it:

File Name	т	Owner	Size	Modification Date	Permissions
1988.cal	r	larry	18	Mar 4 1988 16:46:08	rw- r r
nesg	r	larry	18	Mar 4 1988 17:05:38	rw- r r
phone	r	larry	10	Mar 5 1988 10:49:42	rw- r r
policies	r	larry	25	Mar 5 1988 12:48:51	rw- r r
quiksell	d	larry	80	Mar 11 1988 12:04:34	rwx
report	r	larry	2488	Mar 11 1988 10:25:32	rw- rw- r

You can bypass **LOCAL-MENU** once you have become familiar with the numbers that correspond to the choices on that menu. (3) corresponds to the File Manager **LOCAL-MENU** option (3) Return to normal directory display, therefore, you can use (3) to return to the File Manager display.

9. Use **LOCAL-MENU** option (3) Return to normal directory display to return to the File Manager display.

To change permissions or other options on a single file, you can use **LOCAL-MENU** option (5) Show more details about this file from the normal directory display to see the Detailed File Status Information display. In large directories, this is much faster than displaying status information for all files.

5.12 New Task Menu Options

You have already used <u>MENU</u> to move from another directory to your home directory. This option is always available to you, no matter where you are located in the directory structure. There are several other options also available to you through <u>MENU</u>:

1. Use MENU to see the New Task Menu:

Move	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.					
File	File Description					
1988.cal Calendar						
Select a menu cursor to an CANCEL to rema help informat	option (for example, move the item and EXECUTE); otherwise, ove the menu, or HELP to display ion.	ject				
Show home directory Execute UNIX shell commands Run a shell command in a box Show your profiles directory Edit your editor profile Housekeep Display history of current file						
/usr/larry	INSERT	Line 1 (6)				

The options Execute UNIX shell commands and Run a shell command in a box allow you to communicate with your system. The options Show your profiles directory and Edit your editor profile allow you to customize your profiles. The option Housekeep provides an easy way to remove history from structured files and remove unwanted files from your directories. The option Show history of current file allows you to view the history of the file that is currently displayed (if the current file is structured). These options are discussed in the following paragraphs.

5.12.1 Executing a Command From the Editor Subshell. The TEN/PLUS system eliminates most of the requirements for communicating directly with the system by allowing you to perform tasks with functions instead of commands. However, there are many available system commands in the TEN/PLUS environment. <u>MENU</u> provides two methods of communicating with the system. The first one allows you to run a command from the editor subshell:

1. Select the option Execute UNIX shell commands. The display will clear and the editor subshell prompt will appear near the top left of your screen:

```
Execute UNIX shell commands
Touch CNTL-D to continue editing
eshell>
```

You are now at the editor subshell level, and you can type commands to the system. The date(1) command causes the system to display the current date and time.

Line

4

2. Type date, then **RETURN**:

```
Execute UNIX shell commands
Touch CNTL-D to continue editing
eshell> date
Fri Mar 11 14:41:07 PST 1988
eshell>
```

3. Use **CTRL** d, then **RETURN**, to return to the File Manager display.

Line

6

5.12.2 Executing a Command in a Popup Box. The second method of communicating with the system is to execute a command in a popup box:

1. Use <u>MENU</u>. Select the option Run a shell command in a box; a popup box will appear:

1	INTERACTIVE TEN/PLUS FILE MANAGER Nove the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal	Calendar
Shell comma	and:
quiksell report	QuikSell Project Directory First Report on the QuikSell Project
/usr/larry	INSERT Line 1 (6)

2. Type date, then use **EXECUTE**:

Мот	INTERACTIVE TEN/PLUS FILE MANAGER we the cursor to an item below and ZOOM-IN to see it.
File	Description
1988.cal	Calendar
Fri Mar 11 14	4:45:34 PST 1988 ne Book
quiksell report	QuikSell Project Directory First Report on the QuikSell Project
L /usr/larry	INSERT Line 1 (6)

The output for the command is displayed in the popup box. If there is no specific output for the command (for example, if the cp(1) command is used to copy a file), a popup box with the message No output from "Run a shell command in a box" appears.

3. Use **CANCEL** to remove the popup box.

Note, however, that interactive commands (commands requiring additional input from the user) cannot be run in popup boxes. If you accidentally enter an interactive command, try using **BREAK** to stop the command from executing. The *date* command is just one example of a command that can be executed from the editor subshell or in a popup box. For a complete listing of system commands, see your user's manual.

5.12.3 Showing Your Profiles Directory. The TEN/PLUS User Interface includes three profiles that you can use to customize the TEN/PLUS environment to suit your particular needs. Custom versions of the TEN/PLUS profiles must be stored in a profiles directory in your home directory. The Show your profiles directory option moves you from a file or another directory to your profiles directory. If your home directory does not already contain a profiles directory, it will be created.

5.12.4 Editing Your Editor Profile. The editor profile, editorprf, is a standard profile intended for beginning users. The TEN/PLUS editorprf file lets you specify what the New Task Menu will look like, what the Help Menu will look like, which files the editor should watch, and what the editor search paths should be. Use the Edit your editor profile option to customize your editorprf to suit your needs. If this file does not already exist, it will be created. If a profiles

directory does not already exist in your home directory, it will be created as well. The top level of the editorprf file looks like this:

```
      Editor Profile File

      This file allows you to modify the behavior of the editor to suit your

      preferences. Put the cursor on the line of interest and ZOOM-IN to specify

      your choice of options.

      MENU Options

      HELP Options

      Files the Editor Should Watch

      Editor Search Paths

      /usr/larry/profiles/editorprf
      INSERT
      1 ( 4)
```

Your system may have additional profile items. Refer to §6 for a brief discussion of how to modify the MENU Options section of your editorprf file; for more information about this and the other sections of your editorprf file, refer to "TEN/PLUS Profiles."

5.12.5 Housekeep. The Housekeep option on your New Task Menu runs a housekeep command that removes \$HOME/.putdir, removes history from all structured files in your directories, and removes all ... and .bak files from your directories. (Note that you cannot restore files from .putdir if they were deleted prior to using this option.)

5.12.6 Displaying the History of the Current File. The Display history of current file option on your New Task Menu displays a list of previous versions of the current file if the current file is structured. This list can be used to view or restore previous versions (see §6).

5.13 The File Manager Profile

The File Manager has its own profile file that allows you to customize your directory listing. This profile file is called indexprf. This display shows the indexprf file with the system defaults:

\int	Directory Helper Options						
Synchronize	ynchronize the index file with the directory: x						
Directory f	or deleted files: \$HOME/.	.putdir					
	*.bak						
Files	*.old						
to be	*.index						
hidden	·*						
/usr/larry/	profiles/indexprf	INSERT	Line	1 (1)		

If you wish to change any of the defaults shown in the sample indexprf file above. vou must create an indexprf file in vour \$HOME/profiles directory, and edit the file. If you already have a profiles directory, you can access that directory, type indexprf in the File field, ZOOM-IN, and select the option to create a structured If you do not have a profiles directory, use **ENTER** file. \$HOME/profiles/indexprf USE, and select the option to create a structured file. The system will create a profiles directory, then create an indexprf file in that directory and display the new indexprf file on your screen.

The Synchronize option in this section allows you to specify whether your directory listing will be updated (that is, synchronized with the actual state of the system) whenever you create files through $\boxed{\text{ENTER}}$ filename $\boxed{\text{USE}}$. The x in this field specifies that synchronization will take place; this is the default. Unless there is an x in this field, synchronization will not occur. In that case, files created through $\boxed{\text{ENTER}}$ filename $\boxed{\text{USE}}$ will not show in the directory listing until you manually list them by selecting the File Manager local menu option (1) Display "visible" files.

The Directory for deleted files option specifies the directory in which the system places your deleted files and directories. The default is the .putdir directory located in your home directory. You can change this default by replacing it with a new directory name. For example, you might decide to place deleted files and directories in a directory called removed in your home directory. In this case, you would type the path name \$HOME/removed over the existing path name in this option. A directory name must be specified for this option or you will be unable to delete files or directories.

The Files to be hidden option specifies those files that are to be hidden by the system. By default, all files beginning with a . or ending in .bak, .old, or .index, will be hidden. The asterisk you see in the display is used as a wildcard, which means that it is equivalent to any character or characters. Files ending in .bak are created by the system each time you complete an editing session on an ASCII file (such as those you have been using). The previous version of that file is not deleted but is renamed by truncating the file name to 10 characters (if necessary) and appending .bak. Any previous .bak file is overwritten. A .index file is a structured file created and used by the File Manager to edit a directory; you cannot access a .index file directly. You can specify which files are to be hidden in your directory listing by modifying the list of file names contained in this option. You can, however, always view a listing of all files by selecting the File Manager local menu option (2) Display all files.

6. THE HISTORY DISPLAY

The TEN/PLUS system makes use of "helpers" to perform specific computations on data that has been stored with a predefined structure. The structure of data used by a helper is defined by a form associated with the data whenever it is saved or retrieved. The TEN/PLUS History Display helper provides a way to inspect the history of a structured file. You can use this helper to determine details about the changes made to the file, and you can recreate versions of the file as needed. **LOCAL-MENU** for the History Display allows you to copy a previous version to a new file for further editing.

6.1 Types of INed Files

The INed editor can edit two types of files: ASCII and structured. All TEN/PLUS files are either ordinary ASCII files or structured files. An ASCII file is composed of a sequence of ordinary text characters.

A structured file reflects a specific data structure defined by an associated form, and it keeps a record of changes that have been made to the file. This record is called the history of the file. A structured file automatically saves versions of the file between its original creation and the time that it is ultimately deleted. Although you cannot use some system commands directly with structured files, you can convert the files to ASCII if necessary. (See *readfile(1)* for more information about converting structured files to ASCII.) It should be noted that structured files may grow much larger than the corresponding ASCII files over a lifetime of changes to the files. However, it is less time-consuming to save structured files. You can use the History Display only with structured files, therefore you should use structured files whenever you wish to maintain a history of changes made to a file.

6.2 Creating a Structured File

You must first create and modify a structured file to use the History Display:

1. **ZOOM-IN** to the quiksell directory, then type a file name and descriptive information:

Мо	INTERACTIVE TEN/PLUS FILE MANAGER ove the cursor to an item below and ZOOM-IN to see it.
File	Description
report sample	First Report on the QuikSell Project Sample Flyer for QuikSell
/usr/larry/qu	iksell INSERT Line 2 (2)

2. **ZOOM-IN** on the line containing the new file name:

INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.	
File	Description
report sample	First Report on the QuikSell Project Sample Flyer for QuikSell
You are attempting to create file "/usr/larry/quiksell/sample" Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise, CANCEL to remove the menu, or HELP to display help information.	
Create an ASCII file (without history) Create a structured file (with history) Create a directory Re-enter the file name	
/usr/larry/quik	sell INSERT Line 2 (2)

- 3. Since history is kept only for structured files, select the option to create a structured file. A blank file will appear on your screen; this is considered to be the first version of the file.
- 4. Type the following text:
1 t t t t t t t t t r QUIKSELL MAKES THE HARD SELL EASY Software tools for the sales industry that provide a revolutionary approach to sales. from the QuikSell Corporation usr/larry/quiksell/sample 12 (12) INSERT Line

6.2.1 Creating Versions of a File. When you terminate an editing session, the system saves the modified file. **SAVE** provides a way of saving a file, including all changes, without terminating the editing session. **SAVE** three versions of the sample file:

1. Use **SAVE** to save this version of the file. Now add a new line at the top of the file as shown:

1	t	t	t	t	t	t	t	t	t	r
Many 1	Fortune	1000 com	npanies h	ave alre	eady disco	vered t	hat			
QUI	QUIKSELL MAKES THE HARD SELL EASY									
Softwa that j to sa	Software tools for the sales industry that provide a revolutionary approach to sales.									
	Quik	from th Sell Cor	e poration							
/usr/1	arry/qui	iksell/s	ample		INSERT	Line	2	(12)]

2. Use **SAVE**, then change the text again, as indicated:

1 t t t t t t t t t r Many Fortune 1000 companies have already discovered that QUIKSELL MAKES THE HARD SELL EASY Software tools that make sales management efficient and accurate. from the QuikSell Corporation /usr/larry/quiksell/sample INSERT Line 8 (10)

3. Use **SAVE** a third time. You now have four different versions of the **sample** file. (Remember that the original blank file is considered to be a version.)

6.3 Accessing the History of a File

Because you have created several versions of the sample file, you can now view its history:

1. Use MENU:

1	t	t	t	t	t	t	t	t	t	r	
Ma	Many Fortune 1000 companies have already discovered that QUIKSELL MAKES THE HARD SELL EASY										
s		New T	ask Menu				nd accu	rate.			
	Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise, CANCEL to remove the menu, or HELP to display help information.										
	Show home Execute UN Run a shel Show your Edit your Housekeep Display hi	directo IIX shel 1 comma profile editor story o	ry l command nd in a b s directo profile f current	s ox ry file							
/u	sr/larry/qui	iksell/s	ample		INSERT	Line	8	(10)		

2. Select the option Display history of current file. A form, similar to the one shown below, will list the versions of the file:

User		Mod	ifi	cation Tim	ne	Ins	Del	New	
larry	Fri	Mar	11	13:33:59	1988	0	0	0	
larry	Fri	Mar	11	13:35:25	1988	0	0	6	
larry	Fri	Mar	11	13:37:02	1988	0	0	1	
larry	Fri	Mar	11	13:37:38	1988	1	3	1	

This is the History of file form. The form shows the name of the user who edited the file; the date and time the editing session started; and the number of lines (or records in a structured nontext file) that were inserted, deleted, or changed. To see a particular version of the file, **ZOOM-IN** on the line describing that version.

3. With the cursor on the third line, **ZOOM-IN** to see the third version of the sample file:

```
1
         t
                                                                   t
                 ÷
                         ÷
                                  ÷
                                          ÷
                                                  +
                                                          ÷
                                                                           ÷
                                                                               r
Many Fortune 1000 companies have already discovered that
  QUIKSELL MAKES THE HARD SELL EASY
Software tools for the sales industry
that provide a revolutionary approach
to sales.
               from the
          QuikSell Corporation
HISTORY-MODE
                                         INSERT
                                                   Line
                                                              1 (
                                                                     12)
```

6.3.1 The History Display Local Menu. **LOCAL-MENU** for the History Display provides access to several special options for working with versions of a file. You can use **LOCAL-MENU** while viewing a version of a file to print the time of the version in a popup box, show the next version, show the previous version, redisplay the History of file form, or save the version.

Use **LOCAL-MENU** to see the History Display Options:

1 t t t t t ÷ ٠ ÷ ÷ r ered that History Display Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise. CANCEL to remove the menu, or HELP to display help information. (1) show time of this version of the file (2) show next time (3) show previous time (4) redisplay history (5) save current version of file HISTORY-MODE 1 (12) TNSERT Line

Option (1) displays the last modification time of the current version in a popup box. You can select this option instead of using **ZOOM-OUT** to view the modification time on the History of file form. Use **CANCEL** to remove the popup box containing the modification time of the current version.

Options (2) and (3) show the next or previous versions of a file, respectively.

Option (4) allows you to move from a version of a file back to the History of file form.

Option (5) allows you to save a previous version of a file. This is necessary if you need to edit a previous version. In order to edit a version, you must save it under another name, or make it the current version:

1. Use **LOCAL-MENU** and select (5) save current version of file:

```
t
                 t
                          t
                                  t
                                           t
                                                   t
                                                           t
                                                                    t
                                                                            ÷.
                                                                                r
 Enter file name (/usr/larry/quiksell/sample):
  QUIKSELL MAKES THE HARD SELL EASY
Software tools for the sales industry
that provide a revolutionary approach
to sales.
               from the
          QuikSell Corporation
HISTORY-MODE
                                         INSERT
                                                               1 (
                                                                      12)
                                                    Line
```

2. To save a copy of this version under a new file name, type the new name in the space provided:

```
t
                 ÷
                          ÷
1
                                  ÷
                                          ÷
                                                   t
                                                           ÷
                                                                   ÷
                                                                            ÷
                                                                                r
 Enter file name (/usr/larry/quiksell/sample): sample2
  QUIKSELL MAKES THE HARD SELL EASY
Software tools for the sales industry
that provide a revolutionary approach
to sales.
               from the
          QuikSell Corporation
HISTORY-MODE
                                         INSERT
                                                   Line
                                                              1 (
                                                                     12)
```

- 3. Use **EXECUTE**. The new file, sample2, consists of just one version. It will have no history until changes are made to it. The old sample file retains all of its history.
- 4. You can also save this version under the original file name. To do this, simply use <u>EXECUTE</u> without typing in a new file name. The current version of the file, with all of its history, will be placed in file.bak, and the version of the file you are looking at will become the current version. All other history will be removed. (See *rmhist*(1) for more information about removing history from a file.)
- 5. Use **ZOOM-OUT** to return to the History of file form, then **ZOOM-OUT** again to return to your original file.

6.4 Removing History

As noted previously, a structured file may grow quite large over a lifetime of changes. In order to save disk space, it's a good idea to remove the history from a structured file when the history is no longer needed. You can copy your files to diskette or tape before removing history if you wish. Your New Task Menu provides a convenient way to remove the history from all structured files in your home directory and all of its subdirectories.

1. In your sample file, use MENU:

1 t ÷ ÷ ÷ t t t ÷ t r Many Fortune 1000 companies have already discovered that QUIKSELL MAKES THE HARD SELL EASY ent and accurate. New Task Menu Select a menu option (for example, move the cursor to an item and EXECUTE); otherwise, CANCEL to remove the menu, or HELP to display help information. Show home directory Execute UNIX shell commands Run a shell command in a box Show your profiles directory Edit your editor profile Housekeep Display history of current file /usr/larry/quiksell/sample 8 (10) INSERT Line

- 2. Select Housekeep. The message Executing "Housekeep" will appear in a popup box and your keyboard will be locked while the system removes the history from all structured files in your directories, removes all ... and .bak files in your directories, and removes \$HOME/.putdir.
- 3. When Housekeep has completed, a popup box with the message No output from "Housekeep" will appear. This is the default system message for programs that do not have output. <u>CANCEL</u> to remove the popup box. Use <u>MENU</u> again and select Display history of current file. A new History of file form will appear:

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User		Mod	ific	ation	Tir	ne	Ins	Del	New
larry	Fri	Mar	11	14:20	: 48	1988	0	0	5

Note that only one version of the file now exists; all history has been removed. If you create many structured files, this option should be run when you are not using the system, since the procedure can be somewhat time-consuming. If you wish to remove the history from an individual file rather than from all structured files in your directories, it is possible to do so manually. (See rmhist(1).)

6.5 Structured Nontext Files

So far you have used the History Display with structured text files. You can also use the History Display with another type of structured file: a structured nontext file. Your editorprf file is an example of a structured nontext file. Because each user has (or can create) this particular structured nontext file, it will be used as an illustration, although you will probably not want to save its history.

All structured files are record-oriented, but there is a difference between the records in a structured text file and those in a structured nontext file. The records for a text file, such as the sample file, correspond to the lines of text in the file. The records for a structured nontext file, such as editorprf, contain information from the parts of the file listed at the top level, and text contained at more detailed levels. Access your editorprf file:

1. Use MENU and select Edit your editor profile.



This is the top level of your editorprf. Each line corresponds to a record. Each record listed here contains more detailed levels, which can be accessed with **ZOOM-IN**.

2. ZOOM-IN on MENU Options:

MENT	J Option	8
Description shown in menu	Туре	Name of file or program
Show home directory Execute UNIX shell commands Run a shell command in a box Show your profiles directory Edit your editor profile Housekeep Display history of current file	file screen popbox file file popbox helper	<pre>\$HOME echo "Touch CNTL-D to continue ed "<u>Shell command:</u>" \$HOME/profiles \$HOME/profiles/editorprf housekeep history</pre>
/usr/larry/profiles/editorprf	INSER	T Line 1 (6)

3. With the cursor on Show home directory, ZOOM-IN:

88

Details of	E MENU	Option			
Description shown in menu	Type	Name of	file or	program	
Show home directory	file	\$HOME			
Flags: any non-space character means true Sync and reopen file Save all files					
/usr/larry/profiles/editorprf	INSER	T Line	1 (1)	

Each of these more detailed levels is a part of the MENU Options record, which in turn is part of the editorprf file.

You can use the History Display to recreate a version of a structured nontext file such as editorprf. Remember that you will be recreating the entire file and not just one portion of it. The recreated version will include both the top level listing of all the records and the more detailed levels of text contained in each of those records.

It should be noted that versions of structured nontext files, such as editorprf, must be saved in files with specific names. For editor profile files, the name must either be editorprf or end in .editorprf. For example, you might save a version of your editorprf under a name such as old.editorprf. For File Manager profile files, the name must be either indexprf or end in .indexprf. For print profile files, the name must be either printprf or end in .printprf.

7. ADDITIONAL FUNCTIONS

7.1 More About HELP and the Help Menu

HELP provides additional information about TEN/PLUS functions and facilities. It is available at any time. There are two distinct situations in which **HELP** is useful:

- 1. When additional information about a currently displayed popup box is required. Further information about popup boxes is available by using **HELP** at any time while the popup box is displayed.
- 2. When additional information about any of the topics in the Help Menu is required.

To use the Help Menu:

1. Use **HELP**. The Help Menu will display:

Move	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.									
File	ption									
1988.cal	Calendar									
	Help Menu									
Select a menu cursor to an CANCEL to remain help informat	option (for example, move the item and EXECUTE); otherwise, ove the menu, or HELP to display ion.									
Alphabetic Li How do I How to Custon Suggestions Suggestions Keyboard Laye	ist of Editor Commands ? nize the Editing System For Your MENU For Your Print Menu Puts									
/usr/larry	INSERT	Line 1 (7)								

Select the desired topic. The help information for the topic selected displays on the screen. For example, if the Alphabetic List of Editor Commands is selected, a display containing an alphabetic list of editor commands will appear. Additional information about each of the editor commands can be accessed by moving the cursor to the line on which the desired command is listed and using ZOOM-IN. ZOOM-OUT to return to the list of editor commands.

3. Use **USE** to return to the File Manager display or the editing session, depending on where you were when **HELP** was used.

Practice using **HELP** until you are comfortable with its use:

- 1. **ZOOM-IN** to the report file, then use **HELP**.
- Select Keyboard Layouts. A display showing a list of keyboards will appear. You can access a particular keyboard layout by moving the cursor to the line on which the desired keyboard is listed and using **ZOOM-IN**. **ZOOM-OUT** to return to the list of keyboards.
- 3. Use **USE** to return to the editing session.

7.2 Communicating With the System While in the TEN/PLUS Environment

The TEN/PLUS system eliminates most of the requirements for communicating directly with the UNIX system since most TEN/PLUS operations are performed with functions instead of commands. Files and directories can be created, edited, copied, moved, and deleted with the basic TEN/PLUS functions. There are, however, a number of system commands available while in the TEN/PLUS environment that perform a variety of useful functions and provide specific information about the system. A few of the more common system commands are provided in this section as examples. Others are provided in your user's manual.

There are three methods of communicating with the system while in the TEN/PLUS environment. The first two involve the use of $\overline{\text{MENU}}$ and have been discussed in §5.12.1 and §5.12.2. The third involves the use of $\overline{\text{ENTER}}$.

7.2.1 Running System Commands. The procedure for running a command using **ENTER** is:

- 1. Use **ENTER**. The cursor moves into a popup box containing the **ENTER**: prompt.
- 2. Type the command.
- 3. Use **DO** or **MENU**. **DO** causes the output of the command to print at the cursor position, replacing the text from the cursor position to the next blank line. **MENU** causes the output to print in the popup box.

The output for the command is displayed in the file or the popup box, depending on which function is used. If \overline{MENU} is used and there is no

specific output for the command (for example if the cp(1) command is used to copy a file), a popup box with the message No output from "command" will display on the screen. Use **CANCEL** to remove the popup box.

1. Use **ENTER** date **MENU** to run the *date*(1) command and display the results in a popup box:

1	t	t	t	t	t	t	t	t	t	r
Preli	minary r	eport by	Pat:							
Fri l	Mar 11 1	9:47:32	PST 1988	d desig	Jns for Q Hard Sel	uikSell 1 Easy"	as you n is a gra	equested	. Joł . but	in the
visua Corp.	visuals are just too stuffy for a progressive young company like QuikSell Corp. The photo of business people in a conference room setting doesn't have									
the in their	the impact we're looking forthis client deserves something as dynamic as their product.									
I rec rathe: one p: are c: They': sales: good! certa: Also,	I recommend a less conservative approach, although still using photography rather than illustrations. I envision a scene with one prop against a white background. A half a dozen or more business people are crowded around in front of the booth, waiting for their turns to buy. They're writing out checks or waving their checkbooks impatiently. The salesman is taking orders and checks as fast as he can (life should be so good). This, I believe, is more consistent with the image we want and certainly has the impact we're looking for. Also, about the Cornerstone Condos concept"Homes Built To Last" misses the									
mark.	These	are inex	pensive (condos	whose big	gest sel	ling po	int is th	eir ch	heap
usr/1	arry/rei	JULT			INSERT	Line	1	(33)		

- 2. Use **CANCEL** to remove the popup box.
- 3. Use **ENTER GO-TO** to go to the end of the file.
- 4. Use **ENTER** date **DO** to run the *date* command and print the results in the file. Because you are at the end of the file, the output is inserted without replacing existing text. If you wish to insert the output in the middle of a file without replacing text, use **INSERT** to open blank lines at the desired location before running the command.
- 5. **ZOOM-OUT**.

7.3 Exiting the TEN/PLUS Environment

Up to this point, the discussions in this tutorial have focused on using the TEN/PLUS system to perform basic system and editor functions. If your system administrator has not arranged for you to automatically log in to the TEN/PLUS environment, you can exit from TEN/PLUS to the UNIX shell. Although it is not usually necessary to exit the TEN/PLUS

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environment to perform system functions, there may be times when this is desirable.

The UNIX shell is accessed by using **EXIT**. **EXIT** can be used from within a file or from the File Manager display. If **EXIT** is used from within a file, the file is saved before the system is brought to the command level.

The command level is indicated by a system prompt. Commands to the system are typed at the command level by typing the necessary characters from the keyboard and using **RETURN**. Commands must be typed accurately and end with a **RETURN** or the system will not recognize them. Type e \$HOME to reenter the TEN/PLUS environment in your home directory. Type e . to reenter the TEN/PLUS environment in the current directory. Type e to reenter the TEN/PLUS environment in the file you were editing before exiting.

Exit and reenter the TEN/PLUS environment:

- 1. Use **EXIT**. The system displays the system prompt.
- 2. Type date, then **RETURN**. The current date and time are printed and the system prompt returns.
- 3. Type e **\$HOME** to reenter the TEN/PLUS environment in your home directory.

7.4 Sorting Columns

The *sort*(1) command is used on ASCII files to sort single-spaced lines or columns either alphabetically or numerically. It is used from the editor via **ENTER** and **DO**. The *sort* command acts on one paragraph unless otherwise specified. (The system interprets a blank line following text to be a paragraph separator.)

To sort a column, place the cursor on the first line to be sorted and use **ENTER** sort **DO**. To sort only a given number of lines, indicate the number of lines followed by the letter 1. For example, to sort ten lines, use **ENTER** 101 sort **DO**. Lists can be sorted on specific columns if each entry within a column is preceded by the same number of blank characters. To sort a specific column, type the number of columns to be skipped, preceded by a +, after the *sort* command. For example, to sort the third column, use **ENTER** sort +2 **DO**. The -b option is used to instruct the system to ignore leading blanks and tabs. For example, use **ENTER** sort -b +2 **DO**. To sort a numeric column, insert -n anywhere on the command line. For example, use **ENTER** sort -b -n +2 **DO**. For a discussion of more advanced sorting techniques, refer to

sort(1). Type some text to be sorted and practice the variations of sort that apply to your work.

7.5 Performing Global Search-and-Replace

The global search-and-replace command, rpl(1), is used on text files to replace a word or string of words with another word or string of words throughout a line, paragraph, or document. Like the *sort* command, it is used through the editor via **ENTER** command **DO** and acts on one paragraph unless otherwise specified.

When searching for and replacing a string of words that contains a space (or spaces), enclose the string in quotation marks to hold the words together; for example, **ENTER** 1931 rpl "XXX Corporation" "YYY Company" **DO**. (Note that the number 193 is followed by the letter 1 to indicate the number of lines to be affected.)

To identify one form of a word to be replaced, without replacing variations, put a space before and/or after the word. For example, **ENTER** 20 rpl "tree " "shrub " **DO**. This example ensures that tree is replaced, but not trees.

To initiate a global replacement use **ENTER** nl rpl target-string replacement-string **DO**, where target-string is the original string being searched for and replacement-string is the string that is to replace the target string. The argument n without 1 is the specific number of paragraphs, and nl is the specific number of lines.

To use the global search-and-replace command:

1. Determine the area where the word or string is to be replaced. If n is not specified, the replacement is made within the paragraph where the cursor is positioned. To modify the default, specify the number of paragraphs (n) or lines (n1) from the cursor position in which the replacement should be made.

For example, to replace all occurrences of a particular string throughout a document:

- a. Use ENTER GO-TO to go to the end of the report file.
- b. Note the number of lines in the document.
- c. Instruct the system to search that number of lines, or use a very large number, such as 999. Alternatively, estimate the number of lines in your file, and use a large number.

- 2. Position the cursor at the beginning of the area where the "searchand-replace" is to begin.
- 3. Use ENTER.
- 4. Enter the number of paragraphs or lines (if required), the target string, and the replacement string.
- 5. Use **DO**.

For example, to replace xxx with yyy in the next three paragraphs, use **ENTER** 3 rpl xxx yyy **DO**. To replace xxx with yyy in the next 100 lines, use **ENTER** 1001 rpl xxx yyy **DO**. (Note that the number 100 is followed by the letter 1.)

These characters have special meanings to rpl:

.[](){}*^\$

Use these characters with caution; they must all be preceded by $a \setminus to$ escape their special meanings. (See rpl(1) for details.)

7.6 Using the Spell Program

The spell(1) program is used to check the spelling of all words in a text file against a list of commonly used words. Words not on the list or derivable by adding certain prefixes, suffixes, or inflections to a word in the list, are output as possible errors.

The *spell* program helps discover typographical errors; it does not proof the document. It searches only for misspelled words; a correctly spelled word that is used incorrectly is ignored. For example, if in is typed instead of is, the *spell* program will not detect it as an error. In addition, the list of "error" words may include correctly spelled words that are not in the system dictionary; for example, a person's last name. Thus, the entries in the output file are not necessarily misspelled words.

The *spell* program can be run using Execute UNIX shell commands or Run a shell command in a box from the New Task Menu as described in §5.13, or it can be run using ENTER and MENU. To run *spell* using ENTER and MENU:

- 1. Use ENTER.
- 2. Type spell filename > typofile, where filename is the name of the file being checked and typofile is the name of the file in which possible errors will be written. If typofile does not already exist, it is created. If typofile does exist, its existing contents are deleted before anything is written. If differentiation between words not on the list

and words with plausible derivatives is desired, the -v option should be specified before *filename* in the *spell* command (spell -v*filename* > *typofile*).

3. Use MENU (not DO).

Check the spelling in a file called test and output the errors to a file called typos:

- 1. Use ENTER.
- 2. Type spelltest > typos, then use <u>MENU</u>. The system confirms that the command is being executed by displaying the message Executing "spelltest > typos" in a popup box.
- 3. The message No output from "spell test > typos" appears in the popup box when the program is finished running. Use **CANCEL** to remove the popup box.
- 4. In the typos file, position the cursor at the first typographical error listed, then use **ENTER +SEARCH**. This places the typographical error in the search buffer. If the typographical error is listed in the typos file only once, the system responds Search failed on string "string". The typographical error remains in the search buffer.
- 5. Switch to your original file with USE or NEXT-WINDOW, then use +SEARCH and -SEARCH to locate the search string. Continue searching until the system responds with Search failed on string "string".

Repeat this procedure until all typographical errors are corrected.

Use this procedure to check the spelling in the report file (ENTER spell report > typos MENU). Find and correct any errors.

7.7 Printing a Document

Documents created with the INed editor can be printed on a variety of devices by using **PRINT**. **PRINT** produces a reproduction of a file exactly as it is displayed on-line, regardless of how much is visible on the screen when **PRINT** is used. **PRINT** can also be used to print a directory listing by using **PRINT** while the listing is displayed.

To print a document:

1. Access the file or directory to be printed.

2. Use **PRINT**. A menu similar to this one appears on the screen:

	INTERACTIVE TEN/PLUS FILE MANAGER Move the cursor to an item below and ZOOM-IN to see it.							
File	Description							
1988.cal Calendar								
Move curs Print on Print (a Print to Print to	Print Helper or and EXECUTE to select, CANCEL, or HELP. default printer sk for options) file (overwrite) file (append)							
/usr/larry	INSERT Line 1 (7)							

- 3. Select the desired print option. Standard print options are described below:
 - Print on default printer

Causes the file or directory to be printed on the printer assigned to your work station. Page numbers and the file name are printed at the top of each page, and the title on the header page is set to the name of the current file. Each work station should have an assigned default printer.

Print (ask for options)

Pipes the **PRINT** output through the print command for your system, sets the title on the header page to the name of the current file, and prompts you for print options.

Print to file (overwrite)

Prompts for a file name and overwrites the specified file with the output.

Print to file (append)

Prompts for a file name and writes the output to the end of the specified file.

If you wish to modify or add to the default options on your print menu, you must copy the system print profile, printprf, into your profiles directory and edit it. The system printprf file is located in the **\$SYS/profiles** directory. For more information about modifying your printprf file, refer to "TEN/PLUS Profiles."

7.8 Splitting a File

Sometimes it is helpful to split a lengthy document into two or more shorter documents. The shorter files can then be edited by more than one person and joined together when editing is complete.

The split(1) command splits the original file and creates new temporary files with aa, ab, ac, and so on, appended to each new file name. If a new file name is not designated, the system assigns the file name x.

The *split* program can be run using Execute UNIX shell commands or Run a shell command in a box from the New Task Menu as described in §5.13, or it can be run using **ENTER**. To split a file using **ENTER**:

- 1. Determine the number of lines each new file should contain and choose a new file name to be used for the split files. (One way to determine the number of lines the new files should contain is to access the original file and use **ENTER GO-TO** to move to the end of the file. Note the number of lines in the document and divide that number by the number of temporary files the document is to be split into. This will result in new files of approximately equal length when the *split* command is issued.)
- 2. Use ENTER.
- Type split -n filename newfilename, where n is the number of lines each file should contain, filename is the name of the original file, and newfilename is the name to be used for the new (split) files.
- Use <u>MENU</u>. After a brief pause, the message No output from "split -n filename newfilename" appears in a popup box. Use <u>CANCEL</u> to remove the popup box.

When all the new temporary files have been revised, use the cat(1) command (**ENTER** cat *list of filenames* > *filename* **MENU**) to combine them all back into one file. For example, to combine rev2aa, rev2ab, rev2ac, and rev2ad into a file named revision2, use:

cat rev2aa rev2ab rev2ac > revision2

Split the report file into three files using *split*, then rejoin them using *cat*.

7.9 Searching for a Subject Within a Directory

The grep(1) command can be used to find a file in a specific directory when the subject is known but the file name is not. Use this procedure to locate references to a subject within a directory:

- 1. Change to the directory in which the search is to be conducted.
- 2. Use ENTER.
- 3. Type grep subject *, where subject is the word or phrase to be searched for. If the subject consists of more than one word, enclose it in quotation marks ("). For example, to search for the names of all files that mention the Widget Corporation, type grep "Widget Corporation" *.
- 4. Use <u>MENU</u>. The system lists all files in which the subject is mentioned, followed by the lines containing the word or phrase *subject*.

Practice using grep by searching for the subject QuikSell in your home directory.

7.10 Changing Your Password

Your password should be changed periodically to ensure the security of your files. To change your password:

- 1. Use MENU.
- 2. Select Execute UNIX shell commands, then use **EXECUTE**. The window is removed and the editor subshell prompt displays. The cursor is positioned after the prompt.
- 3. Type passwd, then **RETURN**. These prompts ensure that only the user can change the password and that there are no errors in setting the new password:

```
Old password:
New password:
Re-enter new password:
```

4. Enter the old password, then the new password, then reenter the new password. Remember that you must **RETURN** after each entry before typing the next.

If an incorrect old password is given, the system responds Sorry, and the editor subshell prompt returns. To change your password, you must reenter the *passwd*(1) command and **RETURN**.

If there is an error when typing in the new password, the system responds with They don't match; try again and prompts

for the new password. The new password should be entered and then reentered as prompted.

7.11 Recovering From System Crashes

The INed editor automatically recovers an editing session if the system crashes while the session is in progress. The next time the file is accessed, it should be in the same state as it was when the system crashed.

Although automatic recovery is part of the editing system, it is recommended that files be \underline{SAVE} d periodically as an extra precaution in case of failure. If the recovery process fails, the file can be accessed as it was when it was last \underline{SAVE} d by editing the .bak file.

The message Saving file "/pathname/filename" ... displays in a popup box when <u>SAVE</u> is used. When the popup box disappears, file editing can resume.

7.12 Removing Line-Noise Characters and Broadcast Messages

Occasionally, the system prints warning messages in the editor window or displays characters not keyed in the file. When this occurs, use [REFRESH].

When **REFRESH** is used, the window goes blank for a few seconds, and then previous text is rewritten exactly as it was prior to the interference. When **REFRESH** is completed, the cursor returns to the position it occupied before the display was cleared.

7.13 Using Wildcards

The * is a wildcard character that matches any string of characters. It saves typing and makes it possible to name groups of files as arguments to a UNIX command.

When typing a command that applies to several files, use the * to denote zero, one, or more characters that appear in all the file names, rather than typing the name of each file. For example the * can be used with ls(1):

ls *

lists all files within a directory.

ls intro*

lists all files whose names begin with the characters intro.

ls *.bak

lists all files whose names end with the characters .bak.

Another wildcard is ?, which represents exactly *one* character. For example, 1s h?t lists all three-letter files within a directory that begin with an h and end with a t, so that files named hat, hot, and hit are listed, but hunt is not.

Brackets ([]) can be used to indicate a range. For example 1s draft[1-5] lists all files within a directory that begin with the letters draft and end with 1, 2, 3, 4, or 5, so that files named draft1 or draft3 are listed but draft7 is not.

8. REFERENCES

- [1] "TEN/PLUS Reference Manual," TEN/PLUS User Interface Guide.
- [2] "TEN/PLUS Keyboard Information," TEN/PLUS User Interface Guide.
- [3] "TEN/PLUS Profiles," TEN/PLUS User Interface Guide.

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Appendix: TEN/PLUS FUNCTIONS

This appendix describes the capabilities of the TEN/PLUS functions and sequences. Refer to the "TEN/PLUS Reference Manual" for additional information about these functions and sequences.

1. CONTROL AND MENU FUNCTIONS

- **DO** Invokes system commands from within the editor when used with **ENTER**. **ENTER** command **DO** places output in the current file, replacing text from the cursor line to the end of paragraph.
- **ENTER** Modifies the capabilities of most functions. Used in conjunction with **DO** or **MENU**, it invokes system commands from within the TEN/PLUS environment.
- **EXECUTE** Invokes functions that appear in menus or help popup boxes. Used in conjunction with the cursor-positioning functions to indicate the desired function.
- **CANCEL** Removes comment, instruction, help, or other popup boxes.
- **BREAK** Stops a **+SEARCH** or **-SEARCH**, or a command started via **EXECUTE**.
- **HELP**Displays additional help instructions relating to the editor or to the comments in the current popup box.
Often used in conjunction with **EXECUTE**,
ZOOM-IN, and **ZOOM-OUT** for more detail on a particular subject.
- MENUAccesses non-editor functions without having to EXIT
the TEN/PLUS environment. Used in conjunction withEXECUTEto choose menu options.ENTER
com-
mandMENUplaces the output of command in a
popup box.

PRINT Accesses a print menu.

- **LAST-ARG** Displays the last **ENTER** popup box argument.
- **QUOTE** Allows the explicit insertion of control characters into the text.

[REFRESH]	Clears the editor window of "garbage" characters or broadcast messages. Use REFRESH to rewrite the edi- tor window and position the cursor as it was before the interruption.

FUNCTIONS Displays a menu listing which of the ten basic TEN/PLUS functions are active.

LOCAL-MENU Displays the local, data-specific task menu.

(1)–(8) Local menu bypass functions.

2. WINDOW-POSITIONING FUNCTIONS AND SEQUENCES

+LINE
-LINE

Moves the text one-third of a window forward (+) or backward (-) within the file.

ENTER	n	+LINE
ENTER	n	-LINE

Moves the text the specified number of lines forward (+) or backward (-) within the file, rather than the one-third window default.

ENTER	+LINE
ENTER	-LINE

of the window. Moves the text one window forward (+) or backward

Moves the cursor line to the top (+) or the bottom (-)

+PAGE	
-PAGE	

Moves the text one window forward (+) or backward (-) within the file.

ENTER	n	+PAGE
ENTER	n	-PAGE

Moves the text the specified number of windows forward (+) or backward (-) within the file, rather than the one window default.

RIGHT	Moves the window one-third of its width to the right or
LEFT	left, to permit viewing text that is off the display.

ENTER	n	RIGHT
TIN WEITIN		T TITLE

ENTER n LEFT

Moves the window the specified number of characters to the right or left, rather than the default number of characters.

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ENTER	+SEARCH
ENTER	-SEARCH

Puts the string of characters beginning at the cursor position and ending at the first blank space in the search buffer and initiates a forward (+) or backward (-) search.

ENTER string +	SEARCH
ENTER string -	SEARCH
	Puts <i>string</i> in the search buffer and initiates a forward (+) or backward (-) search.
+SEARCH -SEARCH	Searches forward (+) or backward (-) for the current contents of the search buffer.
GO-TO	Moves the cursor to line 1 of the file. If the cursor is at line 1, moves the cursor to the last line of file.
ENTER GO-TO	Moves the cursor to the last line of the file.
ENTER n GO-TO	D

Moves the cursor to the specified line in the file.

3. CURSOR-POSITIONING FUNCTIONS

◨҇҇҇҆҇҆҇҆҆҇҆	Cursor-positioning functions. Used in conjunction with BOX-MARK and TEXT-MARK and the text manipula- tion functions INSERT , PICK-UP , DELETE , and PICK-COPY to define a specific area of text.
RETURN	Moves the cursor to the beginning of the next line.
HOME	Moves the cursor to the upper left-hand corner of the current window.
TAB —TAB	Moves to the next tab position, to the right (TAB) or to the left $(-TAB)$.
BACKSPACE	Corrects typing errors by backspacing over (thereby erasing) them.
BEGIN-LINE	Moves the cursor to the first nonblank character on the current line.
END-LINE	Moves the cursor immediately to the right of the last nonblank character on the current line.

LINE-FEED Positions the cursor at the beginning of the next line of a form.

4. TAB SETTING/RELEASING FUNCTIONS AND SEQUENCES

SET-TAB Sets a tab at the cursor position.

ENTER SET-TAB

Removes the tab (if any) at the cursor position.

5. TEXT MANIPULATION FUNCTIONS AND SEQUENCES

MARGIN Sets a left-hand margin at the cursor position.

ENTER MARGIN

Sets a right-hand margin at the cursor position.

ENTER → MARGIN

Sets left- and right-hand margins. Sets the left-hand margin at the cursor location where defining began and sets the right-hand margin at the cursor location where defining ended.

- **FORMAT** Reformats text from the cursor position to the end of the paragraph according to the margins indicated on the display.
- ENTER C FONT

Selects continuous-underscore font.

ENTER w FONT

Selects word-underscore font.

ENTER FONT Selects nonunderscore font.

ENTER r FONT

Selects Roman font (equivalent to **ENTER** FONT).

ENTER g FONT

Selects graphics font (if this font is available on your display).

- **FONT** Switches between two fonts.
- **CENTER** Centers the cursor line between the margins.

ENTER [] CENTER

Centers the defined text between the margins.

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ENTER n CENTER

Centers a specific number of lines starting with the cursor line.

INSERT-MODE Switches between insert mode and overwrite mode. When insert mode is on, insertion of text is allowed (text to the right of the insertion moves to the right). When overwrite mode is on, text can be deleted by striking over it.

DELETE-CHARACTER

Deletes the character at the cursor position.

ENTER DELETE-CHARACTER

Deletes the portion of a line at and to the right of the current cursor position.

INSERT Creates one blank line at the cursor position by moving the cursor line and all succeeding lines down.

ENTER *n* INSERT

Creates the specified number of blank lines immediately below the cursor line.

BOX-MARK [] INSERT

Creates a blank space equal to the number of defined lines, moving text at the cursor position down.

BOX-MARK [] → INSERT

Creates a rectangular area of blank space.

- **ENTER INSERT** Moves text at and to the right of the cursor to the new line below.
- **PICK-UP** Deletes text and adds it to the pick buffer.

ENTER n PICK-UP

Deletes the specified number of lines and adds them to the pick buffer.

BOX-MARK | PICK-UP

Deletes all of the defined lines and adds them to the pick buffer.

TEXT-MARK [] PICK-UP

Deletes the defined area and adds it to the pick buffer.

BOX-MARK → PICK-UP

TEXT-MARK → PICK-UP

Deletes the defined portion of the line and adds it to the pick buffer.

BOX-MARK [] → PICK-UP

Deletes a rectangular area of text and adds it to the pick buffer.

TEXT-MARK RETURN

→ PICK-UP

Deletes the defined area and adds it to the pick buffer.

ENTER PICK-UP

Replaces text at and to the right of the cursor with text on the line below the cursor.

PUT-DOWN Places the text most recently added to the pick buffer at the cursor position, removing it from the pick buffer.

Deletes text and adds it to the wastebasket buffer.

ENTER *n* DELETE

DELETE

Deletes the specified number of lines and adds them to the wastebasket buffer.

BOX-MARK] DELETE

Deletes the defined lines and adds them to the wastebasket buffer.

BOX-MARK		DELETE
TEXT-MARK] [→	DELETE

Deletes the defined portion of the line and adds it to the wastebasket buffer.

BOX-MARK ↓ → DELETE

Deletes a rectangular area of text and adds it to the wastebasket buffer.

TEXT-MARK RETURN

→ DELETE

Deletes the defined area and adds it to the wastebasket buffer.

ENTER DELETE

Replaces text at and to the right of the cursor with text on the line below the cursor.

RESTORE Removes only the most recently **DELETE** d text from the wastebasket buffer and places it at the cursor position.

ENTER *n* RESTORE

Places the specified number of copies of the most recently **DELETE** d text at the cursor position.

PICK-COPY Adds a copy of the line at the current cursor position to the pick buffer.

ENTER n PICK-COPY

Adds a copy of the specified number of lines to the pick buffer.

BOX-MARK | PICK-COPY

Adds a copy of the defined lines to the pick buffer.

TEXT-MARK [] PICK-COPY

Adds a copy of the defined area to the pick buffer.

BOX-MARK → PICK-COPY TEXT-MARK → PICK-COPY

Adds a copy of the defined portion of the line to the pick buffer.

BOX-MARK ↓ → PICK-COPY

Adds a copy of a defined rectangular area to the pick buffer.

TEXT-MARK RETURN

PICK-COPY

Adds a copy of the defined area to the pick buffer.

PUT-COPY Places a copy of the text most recently added to the pick buffer at the cursor position, leaving it in the buffer.

ENTER string REPLACE

Puts *string* in the replace buffer. If the string at the cursor position matches the string in the search buffer, it is replaced with the string in the replace buffer.

REPLACE If the string at the cursor position matches the string in the search buffer, it is replaced with the string in the replace buffer.

6. MULTIPLE FILE/WINDOW FUNCTIONS AND SEQUENCES

USE Accesses the alternate file.

ENTER filename USE

Makes *filename* the current file. (*Filename* may be an existing or a new file.) The current file becomes the alternate file.

WINDOW Makes a new window showing the current file.

ENTER *filename* **WINDOW**

Creates a window and puts *filename* into that window. (*Filename* may be an existing or a new file.)

NEXT-WINDOW Changes the current window, in the order in which windows were created.

ENTER WINDOW

Removes all windows except the one in which the cursor currently resides.

NEXT Displays the next item in a list.

PREVIOUS Displays the previous item in a list.

- **ZOOM-IN** Displays more detailed information.
- **ZOOM-OUT** Displays more summary information.

7. EXIT/SAVE FUNCTIONS AND SEQUENCES

- **EXIT** Exits the TEN/PLUS environment and returns to the command level, saving the exited file as created or revised.
- **QUIT** Abnormally terminates the editing session, attempting to save all files. **QUIT** produces a core file and should be used only if **EXIT** fails.
- **ENTER** q **EXIT** Exits the editor and cancels all changes made to all ASCII files during the current editing session unless they have been explicitly **SAVE** d.
- SAVE Saves a file without exiting the editor. Each SAVE creates a new .bak file, overwriting the previous .bak file.





TEN/PLUS Reference Manual

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TEN/PLUS Reference Manual

1. INTRODUCTION

This is a reference manual for the TEN/PLUS® system and the INed® editor. It is intended for those who have already used the TEN/PLUS system to create, edit, and manage text files. It is not designed to teach these procedures to users who have never used them. Readers of this manual should have already read the "TEN/PLUS Tutorial" [1], which contains an introduction to the features of both the TEN/PLUS system and the INed editor. Refer to your user's manual for more detailed information about available UNIX® commands.

1.1 Accessing TEN/PLUS Functions

Accessing TEN/PLUS functions requires different keystroke sequences on different keyboards. Refer to the appropriate section of "TEN/PLUS Keyboard Information" [2] for an alphabetic listing of the TEN/PLUS functions and the keystroke sequences required for your keyboard.

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2. TEN/PLUS SYSTEM OVERVIEW

2.1 Components and Capabilities

The TEN/PLUS User Interface consists of five components: the INed editor, the File Manager, the Profile Helper, the Print Helper, and the History Display. These are used to create, edit, and manage text files. Together, they provide a bridge to the UNIX system, allowing users to perform basic UNIX functions without having to learn a lengthy set of system commands.

All functions that can be performed from the UNIX shell can be performed using one of the TEN/PLUS User Interface components. Since all five components use a system of menus and functions that allow the user to select a desired operation, it is rarely necessary to remember a specific UNIX command.

2.1.1 The INed Editor. INed is a screen-oriented text editor that allows users to display and edit text files. The INed editor is used to modify files by typing over existing text displayed in a two-dimensional window on the screen. The INed editor is easy to use because it allows users to enter and modify text files directly.

INed users enter and edit text by typing on the display as they would using a typewriter. Placing the cursor at the appropriate position on the display and then typing new characters enters them into the file.

The display contains a window that can be moved to the left or right to see other parts of the file. This window can be divided into several smaller windows for convenient editing or examination of files. This feature can be used in conjunction with other functions to "pick up" text from one file and "put" it into another file or another portion of the same file.

The INed command language employs a variety of functions for inserting, deleting, and moving characters, lines, blocks of text, and running text on the screen. INed functions are invoked by a series of keystrokes. Additional INed features include text processing, paragraph fill, right margin justification, and global replacement. The INed editor can be expanded to include additional user- or system-provided programs that are invoked interactively from within the editor.

The INed editor provides facilities for recreating previous versions of files. In addition, if an editing session terminates prematurely, the INed editor provides recovery mechanisms.

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2.1.2 The File Manager. The TEN/PLUS File Manager allows users to create, access, move, copy, and delete files by positioning the cursor and using a specific function. It is easy to use the File Manager to perform these operations because there are no UNIX commands or syntax conventions to remember.

The File Manager uses the same functions as the INed editor. Files are picked up and moved, or copied and moved, using the same INed functions that perform these operations on lines of text.

2.1.3 The Profile Helper. The TEN/PLUS Profile Helper allows users to customize the editing environment to suit individual needs. It can be used to help the editor locate forms, helpers, messages, and forms language scripts, as well as to add, change, or delete the options on certain menus.

The Profile Helper uses forms to build custom menus that simplify operations in the TEN/PLUS environment. Custom menus allow the user to perform certain routine tasks by selecting options from menus. Refer to "TEN/PLUS Profiles" [3] for additional information about the Profile Helper.

2.1.4 The Print Helper. The TEN/PLUS Print Helper allows users to print a file by selecting an option from the Print Menu. The options on the Print Menu can be customized by editing the print profile.

Like the Profile Helper, the Print Helper uses forms to build the custom Print Menu. The custom Print Menu simplifies printing operations in the TEN/PLUS environment by giving the user a choice of menu options for printing a file. Refer to "TEN/PLUS Profiles" for additional information about the Print Helper.

2.1.5 The History Display. The TEN/PLUS History Display provides a way to keep track of changes made to structured files. It displays a form detailing information about previous changes to a file, and allows the user to recall and see any previous version. It also enables the user to copy a previous version of a file into the current file for editing.

The History Display uses menus and forms to implement its functions. History Display functions are accessed by positioning the cursor at the desired option on the menu or form and using a function. Like the File Manager, it does not require knowledge of any specific commands or syntax.

2.2 File Types

The INed editor can edit two types of files: ASCII and structured. ASCII files are standard text files coded in the "American Standard Code for

Information Interchange." Most programs, such as compilers, expect data in this form. Structured files, while not directly usable with most UNIX commands, can be converted easily to ASCII files (refer to Appendix B).

Structured files contain information about the structure of the data in the file. Structured files also contain information about how the file was created so that a user can recover previous versions. For ASCII files, only one previous version is kept in a .bak file. History is kept more compactly in a structured file, and changes to large structured files can usually be stored more quickly after editing than changes in large ASCII files. However, unless history is periodically removed, a structured file will become much larger than the corresponding ASCII file over a lifetime of editing.

A number of programs are useful for managing structured files. These programs are described in Appendix B.

2.3 Initializing the TEN/PLUS System

A successful login initializes the TEN/PLUS system when the system is configured to enter directly into the TEN/PLUS environment. If the File Manager screen does not appear after login, type e \$HOME and **RETURN** to initialize the TEN/PLUS system. This also initializes the editor.

The editor starts up in insert mode with the cursor in the top left-hand corner of the window. The procedures for using the INed editor to modify files are described in detail in §6, §7, §8, and §9.

2.4 Exiting the TEN/PLUS Environment

To exit the TEN/PLUS environment, use $\boxed{\text{EXIT}}$.¹ If the system is configured to enter directly into the TEN/PLUS environment, $\boxed{\text{EXIT}}$ will log you out. If the system is not configured to enter directly into the TEN/PLUS environment, this brings the system to the command level (indicated by the system prompt). To reenter the TEN/PLUS environment and return to the editing session, type e and **RETURN**.

When you \boxed{EXIT} , all files edited during the session are saved. If the file is an ASCII file, the editor renames the previous version of the file by

^{1.} If for any reason **EXIT** fails to bring the system out of the TEN/PLUS environment, use **QUIT**. **QUIT** terminates the editing session unconditionally, attempts to save all files, and produces the core file. (The core file can be used by a system programmer to determine the reason for the malfunction.)

truncating the file name to 10 characters (if necessary) and then appending .bak. If an old .bak file exists, it is overwritten. If the file is a structured file, the previous version is retained as part of the history.

Unmodified files are not rewritten. Files are considered modified if any printing characters are typed while editing the file, even if they do not result in an alteration of the contents. For example, using the space bar (a printing character) instead of \rightarrow causes a file to be saved, even if the intent is merely to examine it.

Use **ENTER** q **EXIT** to exit an ASCII file without saving the changes. Note that changes to all ASCII files edited since the last save will be canceled. To recover a previous version of a file, use the .bak file for ASCII files or the History Display for structured files.

3. THE FILE MANAGER

This section explains how to use the File Manager to create, access, and manipulate files and directories.

3.1 Creating Files

Files are created from the File Manager screen by typing a name and optional description, then using **ZOOM-IN**. A menu appears on the display, requesting that the user select the type of file or directory desired, or re-enter the file name. If a file type is selected, an empty window appears on the display. If a directory is selected, an empty File Manager display appears. All text is typed within the resulting window or File Manager display.

3.2 Exiting Files

Files are exited by using **ZOOM-OUT**. After a few seconds, the File Manager screen appears on the display.

3.3 Accessing Existing Files

Existing files are accessed from the File Manager screen by positioning the cursor on the line on which the file is listed and using **ZOOM-IN**. The text from the file appears on the display. Existing files may also be accessed by using **ENTER** *filename* **USE**.

3.4 Copying Files

Files are copied from the File Manager screen into the current directory or another directory by positioning the cursor in any field on the line on which the file is listed and using **PICK-COPY**. The cursor will move down one line. Position the cursor where the copy is to be placed and use **PUT-DOWN**. An instruction box with the message File name "filename" already exists. Press CANCEL to abort file restore, or enter a new name: appears on the display. Type the new file name at the cursor position and use **EXECUTE**. The file is copied into the current directory and listed on the File Manager screen at the cursor position. You can also copy multiple files using **BOX-MARK** or **ENTER** vertical-motion with **PICK-COPY** and **PUT-DOWN**.

To copy a file into another directory, access that directory using the procedure described in §3.9 before using **PUT-DOWN**. In this case, the file name usually will not be duplicated so the instruction box will not display.

3.5 Moving Files

Files are moved by positioning the cursor in any field on the line on which the file is listed and using **PICK-UP**. The file is removed from the directory listing and the files listed below it move up one line. Change to the directory where the file is to be located using the procedures described in \$3.9, and use **PUT-DOWN**. The file is moved into the current directory and listed on the File Manager screen at the cursor position. You can also move multiple files using **BOX-MARK** or **ENTER** vertical-motion with **PICK-COPY** and **PUT-DOWN**.

3.6 Renaming Files

Files are renamed from the File Manager screen by positioning the cursor at the appropriate character in the file name and using any of the editing functions for modifying text. For example, change into overwrite mode by using **INSERT-MODE**, type over the old file name, and delete any extra characters by using **DELETE-CHARACTER**.

3.7 Deleting Files

Files are deleted from the File Manager screen by positioning the cursor in any field on the line on which the file is listed and using **DELETE**. You can also delete multiple files using **BOX-MARK** or **ENTER** *vertical-motion*. The file (or files) is removed from the directory and stored in \$HOME/.putdir. To restore a file from \$HOME/.putdir, use **PICK-COPY**, access the desired directory, then use **PUT-DOWN**.

3.8 Creating Directories

Directories are created from the File Manager screen by typing a name and optional description and using **ZOOM-IN**. A menu appears on the display requesting that the user select the type of file or directory desired. Position the cursor on the line on which Create a directory is listed and use **EXECUTE**. A blank File Manager screen for the new directory appears on the display.

A subdirectory is created from the File Manager screen of the directory in which the new subdirectory is to be located. The appropriate directory must be accessed before creating the new subdirectory. To access a different directory, use the procedure described in §3.9.

3.9 Accessing Directories

The procedure for accessing a directory depends on the current directory location and the location of the directory to be accessed:

- 1. Directories listed on the File Manager screen of the home directory are accessed by positioning the cursor in any field on the line on which the directory is listed and using **ZOOM-IN**.
- Directories that are located in a directory branching off of the home directory are accessed by using ZOOM-IN at each successive directory level until the desired directory is accessed. For example, to access the directory \$HOME/client/reports from the File Manager screen of the home directory, ZOOM-IN on client, then ZOOM-IN on reports.
- 3. Directories located in other directories that do not branch off of the home directory are accessed by using **ZOOM-OUT** until the parent directory for the desired directory is accessed, and then by using **ZOOM-IN** at each successive level until the desired directory is accessed. Alternatively, directories are accessed by using **ENTER** pathname **USE**.
- 4. The home directory is accessed from any other directory by using <u>MENU</u> and selecting Show home directory.

3.10 Copying Directories

Directories are copied from the File Manager screen into the current directory or another directory by positioning the cursor in any field on the line on which the directory is listed and using **PICK-COPY**. The cursor will move down one line. Position the cursor where the copy is to be placed and use **PUT-DOWN**. An instruction box with the message File name "pathname" already exists. Press CANCEL to abort file restore, or enter a new name: appears on the display. Type the new directory name at the cursor position and use **EXECUTE**. The directory is copied into the current directory and listed on the File Manager screen at the cursor position. You can also copy multiple directories using **BOX-MARK** ENTER vertical-motion with PICK-COPY and or **PUT-DOWN**.

To copy a directory into another directory, access that directory using the procedure described in 3.9 before using **PUT-DOWN**. In this case, the path name usually will not be duplicated so the instruction box will not display.

3.11 Moving Directories

Directories are moved by positioning the cursor in any field on the line on which the directory is listed and using **PICK-UP**. The directory is removed from the directory listing and the files listed below it move up one

line. Move the cursor to the location where the directory is to be moved and use <u>PUT-DOWN</u>. You can also copy multiple directories using <u>BOX-MARK</u> or <u>ENTER</u> vertical-motion with <u>PICK-COPY</u> and <u>PUT-DOWN</u>. If the directory is to be moved to another directory, change to that directory using the procedures described in §3.9 before using <u>PUT-DOWN</u>. The directory is moved into the current directory and listed on the File Manager screen at the cursor position.

3.12 Renaming Directories

Directories are renamed from the File Manager screen by positioning the cursor at the appropriate character in the directory name and using any of the editing functions for modifying text. For example, change into overwrite mode by using **INSERT-MODE**, type over the old directory name, and **DELETE-CHARACTER** any extra characters.

3.13 Removing Directories

Directories are removed from the File Manager screen by positioning the cursor in any field on the line on which the directory is listed and using **DELETE**. The directory, and the entire structure (files and directories) below it, is removed from the File Manager screen and stored in **\$HOME/.putdir**. You can also remove multiple directories using **BOX-MARK** or **ENTER** vertical-motion with **DELETE**. To restore a directory from **\$HOME/.putdir**, use **PICK-COPY**, access the desired directory, then use **PUT-DOWN**.

3.14 Using LOCAL-MENU With the File Manager

LOCAL-MENU is used with the File Manager to display "hidden" files, such as **\$HOME/.putdir**. It is also used to return to the normal display (without "hidden" files), and to display and edit additional file attributes, such as file permissions and ownerships.

4. THE HISTORY DISPLAY

This section explains how to use the History Display to recreate a previous version of a structured file.

4.1 Accessing the History Display

The History Display is accessed while editing a file by using <u>MENU</u> and selecting Show history of current file. This causes the History Display form to appear on the display. The History Display form shows the name of the user who edited the file; the date and time the editing started; and the number of lines or records that were inserted, deleted, or changed.

4.2 Accessing the Versions of a File

The different versions of a file are accessed from the History Display form by positioning the cursor in any field on the line on which the version is listed and using **ZOOM-IN**. The selected version of the file, as it existed after the changes indicated on the form, is displayed. **ZOOM-OUT** to return to the History Display form.

4.3 Using LOCAL-MENU with the History Display

LOCAL-MENU is used while viewing a previous version of a file to print the time of the version in a popup box, show the next version, show the previous version, redisplay the history form, or save the version.

4.4 Saving a Version of a File

A version of a file is saved by accessing that version from the History Display form and selecting **LOCAL-MENU** option (5) save current version of file. This causes an instruction box with the message Enter file name (*filename*): to appear on the display.

To save the version under a different name, enter the name and **EXECUTE**. To save the version under the original name (and move the current version to *filename*.bak), **EXECUTE** without entering a new file name. **ZOOM-OUT** twice to return to the original file.

5. CURSOR- AND WINDOW-POSITIONING FUNCTIONS

5.1 Cursor-Positioning Functions

There are eleven cursor-positioning functions used with the INed editor:

These functions move the cursor one space at a time in the indicated direction. When any of these functions are used and the cursor reaches the screen boundary, the cursor wraps around to the opposite border. If the cursor is positioned on top of a border character, any typing causes the terminal to beep.

HOME

This function moves the cursor to the upper left-hand corner of the window. If multiple windows are displayed, it moves the cursor to the upper left-hand corner of the window in which the cursor is currently positioned.

LINE-FEED

This function positions the cursor at the beginning of the next line of a form.

TAB –TAB

These functions move the cursor to the next tab stop to the right ([TAB]) or left ([-TAB]) of the current cursor position. When the cursor is to the right of the rightmost tab stop in the field, [TAB] moves the cursor to the left to the first column of the window. When the cursor is in the leftmost column of the window, [-TAB] moves the cursor to the last column of the window. If the next tab stop is beyond the window boundary, the window scrolls appropriately to the left or right. If a field contains no tab stops, [TAB] moves the cursor to the next field or window, and [-TAB] moves the cursor to the previous field or window. Default tab stops are located eight columns apart, beginning with the first column of text. Tab stops are cleared and set with [SET-TAB] (§7.15).

RETURN

This function moves the cursor to the first nonblank character of the next line. If the next line is blank, the cursor is placed immediately below the first nonblank character in the previous line. If the cursor is on the last line of the window, the window scrolls one line before the cursor moves to the next line. This allows text to be entered continuously at the end of a file without having to reposition the window to bring in new blank lines.

BEGIN-LINE END-LINE

These functions move the cursor to the beginning (**BEGIN-LINE**) or end (**END-LINE**) of the current line. **BEGIN-LINE** moves the cursor to the first character on the line and **END-LINE** moves the cursor one space to the right of the last character on the line.

5.2 Window-Positioning Functions

There are seven window-positioning functions used with the INed editor:

+LINE -LINE

These functions move text one-third of a window forward (+LINE) or backward (-LINE). The cursor remains on the same line unless the line it is on scrolls outside of the window. If +LINE is used and the cursor line scrolls outside of the window, the cursor moves to the top of the window. If -LINE is used and the cursor line scrolls outside of the window, the cursor moves to the bottom of the window. ENTER +LINE moves the window so the line containing the cursor is the top line in the window. ENTER -LINE moves the window. ENTER n + LINE moves the window. If n + LINE moves the window so the line containing the cursor is the top line in the window.

+PAGE -PAGE

These functions move the text one window forward (+PAGE) or backward (-PAGE). The cursor remains in the same column on the same line (relative to the top and bottom borders) in the window. ENTER n + PAGE moves the window n pages forward, and ENTER n - PAGE moves the window n pages backward.

LEFT RIGHT

These functions move the window in the indicated direction, displaying text previously to the left (**LEFT**) or right (**RIGHT**) of the window. The cursor remains in the same column unless the column it is in scrolls outside of the window. If **LEFT** is used and the cursor column scrolls outside of the window, the cursor moves to the right-hand margin. If **RIGHT** is used and the cursor column scrolls outside of the window, the cursor moves to the lefthand margin. **ENTER** n **RIGHT** moves the window n columns to the right, and **ENTER** n **LEFT** moves the window n columns to the left.

GO-TO

This function moves the window to the first page of the file and the cursor to the first line. If the cursor is at the first line in the file, the window moves to the last page of the file and the cursor moves to the last line. **ENTER GO-TO** moves the cursor to the last line of the file. **ENTER** n **GO-TO** moves the cursor to line n.

6. TEN/PLUS SYSTEM FUNCTIONS

This section describes functions that assist in controlling TEN/PLUS functions and simplify system operations performed within the TEN/PLUS environment. It includes procedures for interrupting search or filter operations; displaying information about error messages, functions, and operations; using menus to simplify system operations and select data-specific functions; controlling detail while viewing structured files; printing documents; moving sequentially through the items in a structured file; creating and editing alternate files; and saving files without exiting the editor.

6.1 Canceling Operations: BREAK

BREAK interrupts a search or filter operation (\$7.9, \$9), leaving the window position and the file unchanged. **BREAK** works only if the canceled operation has not completed. **BREAK** will not undo the operation if the operation completes prior to using **BREAK**.

6.2 Error Message and Other Explanations: HELP

HELP provides information about error messages, functions, and operations. **HELP** can be used from anywhere within the TEN/PLUS environment. If **HELP** is used and there are no error messages or popup boxes in the window, the Help Menu displays. The Help Menu is used to provide additional information about editor functions, keyboard layouts, TEN/PLUS operations, customizing the editing system, and customizing **MENU**. If **HELP** is used while a popup box is in the window, additional information about the information in the box appears on the display.

After you have selected one of the options from the menu, **USE** to continue editing.

6.3 Accessing the Operating System and Other Files: MENU

MENU is used to simplify certain operations and access the operating system and other files without having to exit the TEN/PLUS environment. It allows the user to select an operation from a list of options, which can be customized by altering the editor profile. The procedure for customizing the New Task Menu is described in "TEN/PLUS Profiles."

Although the New Task Menu is installation-dependent, it usually has options for displaying the home directory, executing UNIX shell commands, running a shell command in a box, showing the profiles directory, editing the editor profile, and displaying the history of the current file. Options can be added for accessing other files or directories, running a specific program and displaying the output in a popup box, and clearing the screen to run specific programs. Most of the menu operations require a series of steps if performed without the use of MENU.

The cursor-positioning functions are used to position the cursor at the desired option. Once the desired item is selected, use **EXECUTE** to select the option and perform the indicated operation; **CANCEL** to remove the menu without executing the selected operation; or **HELP** to provide additional information about using **MENU**. You can also use any of the functions (1) through (8), depending on the number that corresponds to the line on which your choice is listed. For example, to select Show your profiles directory from the default New Task Menu, use (4), since this is the fourth option on the menu.

If <u>MENU</u> is accidentally used to run an interactive command (one requiring additional input from the user), <u>BREAK</u> can sometimes be used to interrupt the process.

6.4 Removing Boxes: CANCEL

Four types of boxes can appear in the window during an editing session: menus, error messages, instructions, and informative messages. The last type disappears after a few seconds, but the first three must be removed explicitly with <u>CANCEL</u>.

Occasionally, the system needs additional information from the user before a command can be executed. In these situations, **EXECUTE** is used to "send" the requested information to the system, and **CANCEL** is used to cancel the operation and return to the editing session.

6.5 Controlling Detail: ZOOM-IN and ZOOM-OUT

There are certain situations in which it is desirable to "focus in" on a specific item displayed on the screen. For example, while viewing a structured file (\$2.2), such as the editor profile file, it is often necessary to see additional data related to a specific item in the window. Additional detail is displayed by moving the cursor to the item and using **ZOOM-IN**. **ZOOM-OUT** reverses the process.

6.6 Printing a Document: PRINT

PRINT displays a menu containing options for printing a file. The standard Print Menu includes options for printing on a default printer, printing with options, overwriting the output to a file, and appending the output to a file. Additional options can be included by modifying the print profile file, \$HOME/profiles/printprf. The procedure for modifying the print profile file is described in detail in "TEN/PLUS Profiles."

6.7 Selecting Data-Specific Functions: LOCAL-MENU

While editing certain types of structured data, a menu of additional capabilities specific to the particular data is provided. **LOCAL-MENU** displays this menu. **LOCAL-MENU** can be used in exactly the same way as the Help Menu, the New Task Menu, and the Print Menu (§6.2, §6.3, §6.6).

6.8 Looking at Other Items: NEXT and PREVIOUS

Structured files often contain items that can be viewed sequentially by using **ZOOM-IN**, viewing the item, then using **ZOOM-OUT**. It is possible to access the next item in the sequence without using **ZOOM-OUT** by using **NEXT**. It is also possible to access the previous item in the sequence without using **ZOOM-OUT** by using **PREVIOUS**. Both **NEXT** and **PREVIOUS** accept numeric arguments indicating which item in the sequence to view (counting from 0). An example of a file containing items that can be viewed sequentially is the editor profile, which contains **MENU** Options, HELP Options, and so on.

6.9 Editing and Creating Alternate Files: USE

ENTER filename USE reads in filename as the current file and saves the previous file as the alternate file. If a file with the specified name does not exist, a menu displays, requesting that the user select the type of file to be created. Possible file types are described in §2.2. **CANCEL** returns the editor to its previous state; a new file is not created, and the window and alternate file status are not changed. USE without an argument switches the current and alternate files. The cursor position of the alternate file is restored to its previous position and the current file becomes the new alternate file. **ENTER** USE is similar to **ENTER** filename USE, but takes the file name argument from the text in the window, starting at the current cursor position and ending with the first blank.

The current file is both the current and alternate file if that file name is used as the argument to **ENTER** filename **USE**. **USE** can then be used to switch back and forth between two different positions in the same file without losing the cursor positions. This is useful when two different sections of the same file are edited, or when you wish to move lines from one part of a file to another.

6.10 Saving Files Without Exiting the Editor: SAVE

For ASCII files, <u>SAVE</u> writes an edited file onto disk. For structured files, <u>SAVE</u> writes the current record to disk. The current state of the edited file or record is not changed, and the editing session can continue. The edited file or record is saved again upon exiting the TEN/PLUS environment if it is modified after the \boxed{SAVE} . When editing ASCII files or structured nontext files with large records, it is advisable to \boxed{SAVE} periodically.

ENTER filename **SAVE** saves the current image of the file being edited and then copies the file into *filename*. The editor renames the overwritten file to include a .bak suffix.

7. INTERACTIVE TEXT EDITING FUNCTIONS

The INed command language consists of cursor movements, functions, and arguments. The first element of the INed command language is the cursor position. The cursor is a pointer to where the next typed character will appear. Most editing functions are performed at the position or line indicated by the cursor. Cursor-positioning functions are described in §5.1.

Functions perform designated operations and are the second element of the INed command language. For example, **DELETE** deletes the line of text at the cursor position. Editing functions are described in this section and text processing functions are described in §9.

Arguments, described in §8, are the third element of the INed command language. Arguments modify function defaults.

This section explains the various INed editing functions. The effect of each function is summarized in Appendix A. **DO**, **FORMAT**, **MARGIN**, **CENTER**, and **FONT**, which are used for interactive text processing, are covered separately in §9.

7.1 Inserting Characters: INSERT-MODE

The INed editor has two modes: *overwrite* and *insert*. The mode affects all printing characters (including the space character) as well as the action of **BACKSPACE** (§7.4).

In overwrite mode, a typed character is placed at the cursor position, overwriting any previously existing character. In insert mode, a typed character is inserted at the cursor position, and the characters at and to the right of that position move one position to the right; no characters are deleted. If the line extends beyond the right-hand margin, the last word on the line wraps to the next line (\$9.4).

In overwrite mode, **INSERT-MODE** changes the mode to insert; in insert mode, **INSERT-MODE** changes the mode to overwrite.

7.2 Inserting Lines and Areas, Splitting Lines: INSERT

INSERT inserts a blank line at the cursor line, and moves the cursor line and the lines below it down one line. For all variations of **INSERT**, the cursor always returns to the position it occupied before **INSERT** was used.

ENTER n **INSERT**, where n is a positive numeric argument, inserts n blank lines at the cursor line and moves the cursor line and the lines below it down n lines.

ENTER INSERT splits the current line by moving the characters at and to the right of the cursor position to a new next line, and all subsequent lines down one line.

INSERT can also be used in conjunction with a cursor-defined argument (\$8.2) to open either a specific number of lines or a block. If lines are indicated, **ENTER** motion **INSERT** opens the number of lines defined, where motion indicates a cursor-positioning function. If an area is indicated, blank spaces are inserted and the remainder of each line on which the blanks are inserted is moved to the right. No characters are deleted; however, this sometimes causes the remainder of the line to move beyond the right-hand window border.

7.3 Moving Lines and Areas, Joining Lines: PICK-UP

PICK-UP picks up the current line and adds it to the *pick* buffer. For all variations of **PICK-UP**, the cursor always returns to the position it occupied before **PICK-UP** was used and all subsequent lines in the file move up one line.

The pick buffer contains lines or areas of text from $\boxed{PICK-UP}$ or $\boxed{PICK-COPY}$ (§7.7). The text in the pick buffer can be inserted anywhere in the text by using $\boxed{PUT-COPY}$ or $\boxed{PUT-DOWN}$ (§7.8).

ENTER PICK-UP picks up the current line from the current cursor position to the end of the line and replaces it with the text on the next line. In effect, it joins the text on the current line to the left of the cursor with the next line. The effect of **ENTER INSERT** can be canceled by issuing **ENTER PICK-UP** immediately thereafter.

ENTER n **PICK-UP**, where n is a positive numeric argument, removes n lines, beginning with the current line. The lines are placed in the pick buffer and all subsequent lines are moved up n lines. If the specified number of lines extends beyond the end of the file, a sufficient number of blank lines is supplied to provide a total of n lines in the pick buffer.

PICK-UP can also be used in conjunction with a cursor-defined argument (\$8.2) to remove either a specific number of lines or a block. If lines of text are designated, the effect is the same as **ENTER** *n* **PICK-UP**. If an area is defined, the designated portion of each line is picked up and the characters to the right of the area move to the left.

7.4 Backspace: BACKSPACE

BACKSPACE moves the cursor to the left. In overwrite mode, it moves the cursor to the left by one position, replacing any existing character with a blank character. In insert mode, it moves the cursor to the left by one position, deleting the character at that position and moving all characters to the right of the deleted character one position to the left. Characters deleted with **BACKSPACE** are not saved and must be retyped to be recovered.

7.5 Deleting Characters: DELETE-CHARACTER

DELETE-CHARACTER deletes the character at the current cursor position and moves all characters to the right of the deleted character one position to the left. The cursor does not move. Characters deleted with **DELETE-CHARACTER** are not saved and must be retyped to be recovered.

7.6 Deleting the End of a Line: ENTER DELETE-CHARACTER

ENTER DELETE-CHARACTER deletes the current line from the cursor position to the end of the line. The deleted text is added to the wastebasket buffer (§7.19) and can be retrieved with **RESTORE**.

7.7 Duplicating Lines or Areas: PICK-COPY

PICK-COPY places a copy of the current line in the pick buffer and moves the cursor down one line. **PICK-COPY** is similar in function to **PICK-UP**, except that the lines or regions are copied to the pick buffer and are not removed from the file. **PICK-COPY** does not alter the file being edited.

ENTER *n* **PICK-COPY**, where *n* is a positive numeric argument, places *n* lines, beginning with the current line, in the pick buffer and moves the cursor down *n* lines. If the specified number of lines extends beyond the end of the file, a sufficient number of blank lines is supplied to provide a total of *n* lines to the buffer.

PICK-COPY can also be used in conjunction with a cursor-defined argument (\$8.2) to copy either a specific number of lines or a block into the pick buffer. If lines are indicated, the effect is the same as **ENTER** *n* **PICK-COPY**, except that the cursor does not move. If an area is defined, it is placed in the buffer as a group of partial lines and can be inserted within lines by using **PUT-COPY** or **PUT-DOWN** (\$7.8). Any text to the right of the insertion is moved to the right.

7.8 Placing Text in a File: PUT-COPY and PUT-DOWN

PUT-COPY places a copy of the newest contents of the pick buffer at the cursor position, leaving the buffer unaffected. **PUT-DOWN** moves the newest contents of the pick buffer to the current cursor position, removing it from the buffer. If a numeric argument to either function is specified with **ENTER**, the specified number of copies of the newest data in the buffer is inserted at the cursor location.

Text is inserted into the file in one of two ways, depending on whether a set of lines or an area of text is inserted. Lines of text inserted with $\boxed{PUT-COPY}$ or $\boxed{PUT-DOWN}$ are inserted at the current line and all subsequent lines are moved down to make room for the inserted lines. Areas of text inserted with $\boxed{PUT-COPY}$ or $\boxed{PUT-DOWN}$ are inserted with the upper left-hand corner of the area at the current cursor position. The portions of the affected lines to the right of and including the cursor column are moved to the right to make room for the inserted text. This sometimes causes the affected lines to move beyond the right-hand window border.

PUT-COPY and **PUT-DOWN** can be used with **PICK-COPY** or **PICK-UP** to move text from one file to another. The contents of the buffer are unchanged when windows or current files are switched. Refer to **USE** and **NEXT-WINDOW** (§6.10, §7.14) for additional information about moving between files or windows.

7.9 Searching for a Text String: +SEARCH and -SEARCH

ENTER string **+SEARCH**, where string is any sequence of printing characters, searches forward in the current file for the next occurrence of string. The search begins at the character immediately after the cursor. If the string is found, the cursor is moved to the first character in that occurrence of the string. If the string is in the window in which the search is initiated, the cursor moves directly to the string. If the string is not in the window where the search is initiated, the window advances in the file to bring the line containing the search string to a position several lines down from the top of the window. If the string is not found between the cursor position and the end of the file, the message search failed on string "string" appears in a box, and the window and cursor positions remain unchanged. When a search string is located in a column past the right-hand boundary of the editing window, the window moves to the right to display the string.

+SEARCH without an argument searches for the previous search string. An error message displays if a search has not yet been initiated during the editing session. **ENTER** +SEARCH uses the text at the cursor position up to the first blank space or the end of the line as the search string.

—SEARCH functions as **+SEARCH** does, but **—SEARCH** searches backward in the file, starting at the character immediately preceding the cursor.

7.10 Canceling a Search: BREAK

A search can be canceled with **BREAK** (§6.1). This causes the message Stopped by BREAK to appear in a box on the display. The cursor and window positions are not changed when **BREAK** is used.

7.11 Searching and Replacing: REPLACE

ENTER string **REPLACE**, where string is any sequence of printing characters, places string in the replace buffer and compares the string at the cursor position to the search string. If they are identical, the string at the cursor position is replaced by string. If the string at the cursor position does not match the search string, no action is taken. **ENTER REPLACE** deletes the string at the cursor position if it matches the current search string. This puts a null string in the replace buffer.

Once a string has been entered in the replace buffer, **REPLACE** is used with **+SEARCH** and **-SEARCH** to replace selected instances of the search string. This is accomplished by first using **+SEARCH** or **-SEARCH** until a string to be replaced is located, and then using **REPLACE**. Refer to §9.2 for additional information about replacing search strings.

7.12 Moving to a Specified Line: GO-TO

ENTER n **GO-TO**, where n is a positive numeric argument, scrolls the window so that it displays line number n several lines down from the top of the window. If line n is already positioned in the current window, the cursor is positioned on the designated line and the window position remains unchanged.

GO-TO without an argument moves the window to the beginning of the file. It is equivalent to **ENTER** 1 **GO-TO**. If the cursor is positioned at the beginning of the file, **GO-TO** has the same effect as **ENTER GO-TO**, which scrolls the window to the end of the file and displays the last line several lines down from the top of the window.

7.13 Creating More Than One Window: WINDOW

When a file is opened, the screen contains one large editing window. This window can be divided into several smaller windows, each containing its own file, and each with the window and cursor at the desired positions in the file.

A new window is created by dividing an existing window into two smaller windows. If the cursor is on the first line in a window, that window is divided vertically at the cursor position. Otherwise, the window is divided horizontally at the cursor position.

To divide a window, position the cursor in the window to be divided and use **ENTER** filename **WINDOW**, where filename is the name of the file to be contained in the window. A horizontal division creates a new window below the new boundary. A vertical division creates a new window to the right of the new boundary.

When **WINDOW** is used, the new window becomes the current window and displays the file specified as the argument. **WINDOW** without an argument creates a new window containing the beginning portion of the file in the current window. The remainder of the old window continues to display its current file. It is reactivated by using **NEXT-WINDOW** (\$7.14).

The active window during an editing session is called the "current window." The cursor is positioned in the current window. **NEXT-WINDOW** activates another window as the current window.

Windows are deleted by using **ENTER WINDOW**. The window containing the cursor expands to occupy the entire screen.

7.14 Changing Windows: NEXT-WINDOW

NEXT-WINDOW is used when the screen contains multiple editing windows. It activates the next window, in order of creation, as the current editing window. **ENTER NEXT-WINDOW** activates the next window in the inverse order of creation.

An alternate way of changing windows is to move the cursor "through" the window boundary into an adjacent window. With this approach, however, the window change does not take effect until an editing function is used.

7.15 Setting and Clearing Tabs: SET-TAB

Tabs are initially set to the system default, which is every eighth column in the file. Changes to tab settings are valid only for the current editing session. Each file used in an editing session has its own tab stops.

SET-TAB sets a tab stop at the cursor column. **ENTER SET-TAB** clears any tab stops at the cursor column.

7.16 Editing Wide Lines: RIGHT and LEFT

RIGHT and **LEFT** are used when editing lines that are wider than the window. **RIGHT** moves the window to the right one-third of the window

or to the right-hand margin of the file, whichever is closer. **LEFT** moves the window to the left one-third of the window, or to the left-hand margin of the file, whichever is closer. The cursor remains on the line it occupied prior to the move. If the original cursor column is still on the display, the cursor remains there. If the column moves off the display, the cursor moves to the right-hand border if **LEFT** is used, or to the left-hand border if **RIGHT** is used.

RIGHT and **LEFT** can also be used in conjunction with **ENTER** to indicate a specific number of columns for the window to move. **ENTER** n **LEFT** moves the window n columns to the left, and **ENTER** n **RIGHT** moves the cursor n columns to the right.

7.17 Inserting Control Characters: QUOTE

Control characters are nonprinting characters, some of which perform formatting functions in text files. **QUOTE** allows the insertion of control characters into text. To insert control characters into a file, use **QUOTE**, then type the printing character that corresponds to the desired control character. For example, to insert a Ctrl-a at the cursor position, use **QUOTE** a. Some control characters are displayed as special graphics characters. To enter several control characters, use the graphics font (§8.11).

7.18 Redrawing the Display: REFRESH

REFRESH erases, then redraws the display. This is useful when a system message appears on the screen during an editing session.

7.19 Deleting and Restoring: DELETE and RESTORE, # File

Organizing lines in a file typically involves moving, copying, and deleting operations. The first two are managed with **PICK-UP**, **PUT-DOWN**, **PICK-COPY**, and **PUT-COPY**. Deletion is handled with **DELETE**.

Lines deleted with **DELETE** are added to the *wastebasket* buffer. Deleted lines in the wastebasket buffer can be restored with **RESTORE**. **RESTORE** removes the last deleted line or area from the wastebasket buffer and places it in the file at the current cursor position. A numeric argument can be used with **RESTORE** to indicate the number of copies of the last deleted line or area to be inserted at the cursor location.

In situations where text deleted early in a session must be recovered, use **RESTORE** until the missing text is moved from the buffer to the display. Or, if the file is a structured file, the previous version can be retrieved using the History Display ($\S2.2$, $\S4.4$).

All text deleted during an editing session is saved in a file named #. Although this file cannot be altered, it can be used to retrieve deleted text by using **ENTER** # **USE**, then using **PICK-COPY** to recover the deleted text.

7.20 Using FUNCTIONS

The ten basic functions included with the TEN/PLUS system are <u>MENU</u>, <u>IOCAL-MENU</u>, <u>INSERT</u>, <u>PICK-COPY</u>, <u>PUT-COPY</u>, <u>PICK-UP</u>, <u>PUT-DOWN</u>, <u>FORMAT</u>, <u>ZOOM-IN</u>, and <u>ZOOM-OUT</u>. Each of these functions can only be used in certain situations and, consequently, only a subset of these functions may be active at any given time. <u>FUNCTIONS</u> displays the set of functions that are currently active. (On some systems, more than ten functions may be displayed.) For example, when editing a File Manager display, <u>FORMAT</u> is not displayed by <u>FUNCTIONS</u> because you cannot use <u>FORMAT</u> while viewing a File Manager display.

The complete Functions Menu typically looks like this:

```
Functions Menu
Move the cursor to the desired
function and touch EXECUTE.
Touch CANCEL to do nothing,
HELP for help.
MENU
LOCAL-MENU
FORMAT
INSERT
PICK-UP
PUT-DOWN
PICK-COPY
PUT-COPY
ZOOM-IN
ZOOM-OUT
```

FUNCTIONS options are selected in the same way any menu options are selected. To remove the menu, use **CANCEL**.

8. ARGUMENTS TO FUNCTIONS

Functions, when used alone, pass simple requests to the editor. Modifying a function with an argument permits a greater range of function capabilities. The process of entering an argument can be canceled by using **CANCEL** or another **ENTER**.

8.1 Typed Arguments

Most functions accept arguments. The argument can be a number, a string, or a cursor-positioning sequence. If the argument contains the name of an exported shell variable, the variable is expanded before the operation is performed.

To use a function with an argument, use $\boxed{\text{ENTER}}$, the argument, and then the function. After $\boxed{\text{ENTER}}$ is issued, a popup box into which the argument should be typed displays on the screen. If the popup box is too small, it automatically scrolls to fit the entire argument. Issuing the appropriate function initiates the operation.

Some functions, like +PAGE and \overline{LEFT} , accept only numeric arguments. Others, like +SEARCH and \overline{WINDOW} , accept any string that does not contain cursor-positioning functions. If a cursor-positioning function is issued as an argument to \overline{ENTER} , the argument is interpreted as a cursor-defined argument (§8.2). If an invalid argument is given, the editor writes an error message into a popup box on the screen. The table in Appendix A indicates the type of argument accepted by each function, and gives the interpretation for each.

You can use any of these functions to edit the text typed into a popup box:

←, → BACKSPACE BEGIN-LINE, END-LINE DELETE-CHARACTER INSERT-MODE

To cancel the argument entirely, use **ENTER** or **CANCEL**.

LAST-ARG displays the argument last typed in the **ENTER** popup box. Type additional characters or use any of the functions listed above to modify the argument.

8.2 Cursor-Defined Arguments

Cursor-positioning functions are used as arguments to **ENTER** to define a set of lines or characters, or a block on the display, to be manipulated. Cursor-defined arguments are used in conjunction with **INSERT**, **DELETE**, **PICK-UP**, **PICK-COPY**, **MARGIN**, and **CENTER** (§7.2, §7.19, §7.3, §7.7, §9.4, §9.5) to designate groups of lines or specific portions of lines for editing. Cursor-defined arguments can also be initiated by using **BOX-MARK** or **TEXT-MARK** instead of **ENTER**.

8.2.1 Designating Lines. To use a cursor-defined argument to delete lines, position the cursor anywhere on the first line to be deleted, then use **ENTER** to begin defining the argument. Position the cursor on the last line to be deleted, then use **DELETE** to delete the lines from the starting cursor position to the ending cursor position. To create one or more lines of blank space, move lines, or copy lines, use this same procedure, substituting **INSERT**, **PICK-UP**, or **PICK-COPY**, respectively, for **DELETE**.

The message ******BOX/LINE****** appears at the bottom of the screen when cursor-defining is in progress. The text defined by a vertical cursor motion includes the line from the initial cursor position up to and including the last line on which the cursor is positioned. On some displays, the defined lines are highlighted.

Use **RETURN**, **+PAGE**, **-PAGE**, **+LINE**, and **-LINE** (§5.2) with the cursor-positioning functions after using **ENTER** to define a set of lines spanning more than one screenful of text. When indicating a cursor-defined argument, **+LINE** and **-LINE** cannot immediately follow **ENTER** because this sequence has another interpretation (§5.2). **+LINE** and **-LINE** can be used after **RETURN**, **+PAGE**, **-PAGE**, or a cursor-positioning function has been issued.

8.2.2 Designating Blocks. A cursor-defined block is a portion of the window defined on the screen using the cursor-positioning functions as the argument to **BOX-MARK**. To designate a block of text, use **INSERT**, **DELETE**, **PICK-UP**, or **PICK-COPY** (§7.2, §7.19, §7.3, §7.7) along with the cursor-positioning functions. The cursor can be moved vertically and horizontally to define a block. Moving the cursor horizontally across columns defines an area of text that can be opened, deleted, moved, or picked up. If the area is opened, or if a picked-up area is put down, the lines on which the text is inserted open horizontally to make room for the new material; the remainder of each line is moved to the right.

The portion of the screen defined by vertical and horizontal cursor motion includes all of the lines between the initial and the final cursor positions, including the initial and final lines. The columns from and including the leftmost position, up to but *not* including the rightmost position, are also included.

Use +PAGE, -PAGE, +LINE, -LINE, and **RETURN** to indicate arguments spanning more than one window of text. In addition, **LEFT** and **RIGHT** move the window to define arguments extending beyond the horizontal window of text. **BEGIN-LINE** or **END-LINE** can be used after **ENTER** to move the cursor to the beginning or end of the current line, respectively. **ENTER** +PAGE and **ENTER** -PAGE move the window forward or backward one page, respectively, and cursor-define the lines of text from the beginning cursor position to the ending cursor position. This sequence is commonly used to begin defining a block (for moving, copying, inserting, or deleting) that extends beyond a page boundary.

An area can be defined in any direction. The only requirements are that a group of lines be defined by indicating the first and last line in either direction, and that an area of text be defined by indicating two opposite corners in any order.

8.2.3 Designating Running Text Regions. **TEXT-MARK**, used to define a running sequence of text, is most often used to delete, move, or copy sentences. For example, to delete a sentence, (1) position the cursor on the first character of the sentence to be deleted; (2) use **TEXT-MARK** to begin defining the region; (3) position the cursor directly on the first character *not* to be deleted (for example, on the first character of the next sentence); and (4) use **DELETE**.

INSERT, **PICK-UP**, or **PICK-COPY** can also be used with **TEXT-MARK** by substituting **INSERT**, **PICK-UP**, or **PICK-COPY**, respectively, for **DELETE**.

When **TEXT-MARK** is used, the message *******TEXT******appears** at the bottom of the screen. On some displays, moving the cursor highlights the selected region. The sequence can be terminated with **ENTER** or **CANCEL**.

Use **+PAGE**, **-PAGE**, **+LINE**, and **-LINE** to indicate arguments spanning more than one window. The cursor-positioning functions can be used to define partial lines, and **BEGIN-LINE** and **END-LINE** can be used after **TEXT-MARK** to move the cursor to the beginning or end of the current line, respectively.

9. TEXT PROCESSING FUNCTIONS

Programs that perform text processing operations, such as string replacement, paragraph fill and justification, indenting, and multiple spacing, can be run from within the editor by using a *filter*. A filter is a program that performs a predefined operation on text. The requested operation is performed on the indicated paragraphs or lines and the results are usually indicated on the screen.

Some filters are invoked using the sequence **ENTER** argument **DO**. This sequence passes the requested lines to the specified program and replaces those lines with the result of the program's execution. The old lines are saved and can be accessed with **RESTORE**. Other filters are invoked by simply using a function, such as **FORMAT** or **CENTER** (§9.3, §9.5).

This section describes the text processing filters that can be used with the editor. Possible filter arguments, and their effects, are explained in detail in \$9.1. The most useful text processing filters are described in \$9.2. Additional text processing capabilities are described in \$9.3 through \$9.6. Canceling a filter operation is described in \$9.7. Examples of how to use text processing programs, or filters, with **DO** are provided in \$9.8.

Interactive programs (those that request input from the user) should not be run using $\boxed{\text{ENTER}}$ argument $\boxed{\text{DO}}$. Programs started this way can be stopped with $\boxed{\text{BREAK}}$.

9.1 Using Arguments: ENTER argument DO

ENTER argument **DO** is unique because it can take more than one argument. If more than one argument is specified, each argument is separated by one or more spaces. Any environment variables in the argument string are expanded before use (see sh(1) for an explanation of environment variables).

Possible arguments for **ENTER** argument **DO** are:

- 1. An optional first argument specifying the number of lines (an integer followed by the letter 1) or paragraphs (a positive integer) to be processed. If this argument is omitted, the default is one paragraph. The first line processed is always the current cursor line. If lines beyond the end of the file are requested, only lines up to the end of the file are used. Thus, a large argument (for example, 9999) usually indicates the rest of the file, beginning with the current line.
- 2. The name of the program (filter) to be executed. This argument is required.

3. Arguments to the filter. These arguments vary according to the filter used. An argument containing one or more spaces must be enclosed in paired single or double quotes (' ' or "").

Once an argument has been specified, **DO** can be used without **ENTER** or an argument to run the previous filter operation again.

9.2 Replacing Strings: rpl

The rpl program (see rpl(1) for details) requires two arguments. It replaces all occurrences of the first argument string with the second argument string. If no argument precedes rpl, the replacement starts at the cursor line and continues through to the end of the paragraph. Paired single or double quotes are required for arguments containing spaces.

The rpl program recognizes regular expressions in its first argument (see ed(1) for a full explanation of regular expressions). To delete a string using rpl, replace it with the null string (""). To delete all occurrences of the words Computers and computers in the next 50 lines of text, use the sequence:

ENTER 501 rpl "[Cc]omputers" " DO

9.3 Formatting Text: FORMAT

FORMAT uses a fast internal algorithm for formatting the paragraph containing the cursor. Text is filled according to the margins and is not justified. The lines are stored in the wastebasket buffer and can be restored to their preformatted state with **RESTORE**.

9.4 Setting Margins: MARGIN

Margins are indicated on the screen by the characters 1 and r above the top border of the window. Margins are reset using <u>MARGIN</u>, <u>ENTER</u> <u>MARGIN</u>, or <u>ENTER</u> horizontal motion <u>MARGIN</u>. <u>MARGIN</u> sets the left-hand margin at the current cursor column. <u>ENTER</u> <u>MARGIN</u> sets the right-hand margin at the current cursor column. <u>ENTER</u> horizontal motion <u>MARGIN</u> sets the left-hand margin to the left edge of the cursor-defined area and the right-hand margin to the right edge.

Word wrap automatically moves words extending beyond the right-hand margin to the left-hand margin of the next line. The contents of the next line move to the right or down one line before the word is moved. Word wrap is enabled unless the right-hand margin is removed.

Changes in margin settings are effective only during the current editing session. If the file is exited and reentered, the default margins are restored.

9.5 Centering Text: CENTER

Text is centered using $\boxed{\text{CENTER}}$, $\boxed{\text{ENTER}}$ n $\boxed{\text{CENTER}}$, or $\boxed{\text{ENTER}}$ vertical motion $\boxed{\text{CENTER}}$. $\boxed{\text{CENTER}}$ centers the current line between the margins. $\boxed{\text{ENTER}}$ n $\boxed{\text{CENTER}}$ centers n lines of text, beginning with the cursor line. $\boxed{\text{ENTER}}$ vertical motion $\boxed{\text{CENTER}}$ centers all lines within the cursor-defined area between the margins.

If margins are subsequently changed, centered lines are not automatically recentered.

9.6 Selecting Fonts: FONT

Each file has a current and alternate font associated with it. The default current font is Roman with no underline; the default alternate font is Roman with continuous underline.

FONT switches the editor between the current and alternate fonts. **ENTER** FONT saves the current font as the alternate font and sets the current font to Roman with no underline. **ENTER** letter FONT saves the current font as the alternate font and sets the current font as specified by *letter*. The acceptable values for *letter* are r (Roman), c (continuous underline), w (word underline), and g (graphics characters). The graphics character set is described in Appendix C.

ENTER ? **FONT** tells you which fonts are available and which font is currently in use.

9.7 Canceling a Filter Operation: BREAK

A filter operation can be interrupted with **BREAK** (§6.1). **BREAK** leaves the file and window positions unchanged. It does not undo the operation if it completes prior to using **BREAK**.

9.8 More DO Capabilities: tee, cat, sort, and date

Your system includes a variety of text processing programs suitable for use with \boxed{DO} . Refer to your user's manual for additional information about specific programs.

Any program suitable for use as a filter can be used with \boxed{DO} , including user-written programs. For example, to pick five lines from the current file and place them in *file1*, use \boxed{ENTER} 51 tee *file1* \boxed{DO} . The tee filter writes the five lines into *file1* without changing the lines in the current file.

Use **ENTER** 0 cat *file2* **DO** to write *file2* into the current file at the current cursor line. Use **ENTER** sort **DO** to sort the lines up to the next blank line in alphabetical order. Use **ENTER** 0 date **DO** to insert the current date and time at the current line.

10. RECOVERY

This section describes the TEN/PLUS procedures that prevent accidental destruction of information due to system failures or inadvertent user actions.

10.1 Old Versions of ASCII Files

A modified ASCII file is saved by exiting the editor or using \underline{SAVE} (§6.10). The previous version is not deleted, but is renamed by truncating the file name if necessary and appending .bak. The previous .bak file is overwritten.

10.2 Old Versions of Structured Files

Previous versions of structured files are automatically saved within the file itself, and can be recalled through the History Display (§4). Specific versions can be saved either by exiting TEN/PLUS or using **SAVE**.

It is recommended that history be removed periodically using either rmhist(1) or the Housekeep option on the New Task Menu. After the history is removed, versions prior to the time that the history was removed will no longer be available.

10.3 Automatic Recovery

In situations such as power failure or storage exhaustion, the editor saves the current editor session. Text characters entered after the last editing command, however, are lost. The recovery is automatic, and in most situations the user does not need to take action.

If possible, the editor restarts itself. If the editor cannot restart, type e and **<u>RETURN</u>**. The state the file was in prior to the session in which the problem occurred is restored.

11. MISCELLANEA

11.1 Text File Format

If a line is not explicitly modified during an editing session, it remains unchanged. If it is modified, certain changes are made. When files are read by the editor, existing ASCII tab characters are maintained in the text (even though they appear as spaces in the display) until a line is modified. When a line is modified, all tabs are converted into spaces. Then, when a file is saved, leading spaces are replaced with ASCII tab characters wherever possible (that is, each string of eight spaces is replaced by a single tab character). Spaces after the first nonblank character are not replaced; trailing blanks are removed. If the last line of a file is not terminated by the new-line character (octal 012), a new-line character is supplied when that line is edited. All control characters other than tab (Ctrl-i) and linefeed (Ctrl-j) are preserved in files edited by INed. Ctrl-j will cause the loss of the end-of-line and should be avoided.

11.2 TEN/PLUS Limitations

If there are any TEN/PLUS limitations specific to your system, an addendum has been provided that describes them.

11.3 The Editor Profile

It is possible to give the editor instructions on how to act in certain circumstances. This information is normally stored in the editor profile. Refer to "TEN/PLUS Profiles" for details on how to create and modify the editor profile file.

12. REFERENCES

- [1] "TEN/PLUS Tutorial," TEN/PLUS User Interface Guide.
- [2] "TEN/PLUS Keyboard Information," TEN/PLUS User Interface Guide.
- [3] "TEN/PLUS Profiles," TEN/PLUS User Interface Guide.
| FUNCTION | Action of
FUNCTION | Action of
ENTER FUNCTION | Action of ENTER X FUNCTION
(X is any argument) | Action of
ENTER motion FUNCTION
(motion is a combination or
cursor-positioning functions. | | | | | |
|------------|---|--|--|--|--|--|--|--|--|
| (1)-(8) | Use the nth special function. | Data-dependent. | Data-dependent. | Data-dependent. | | | | | |
| †→↓← | Move the cursor one position in the indicated direction. | Enter BOX/LINE mode; define a region to the next cursor position. | /LINE mode; define a ERROR (Note 1) (
next cursor position. | | | | | | |
| BACKSPACE | Delete the character to the left of the cursor. | No effect. | Delete the last character of X. ERROR (Note 2) | | | | | | |
| BEGIN-LINE | Move the cursor to the first non-
space character of the current line. | Enter BOX/LINE mode; define a region to the first nonspace character of the current line. | ERROR | Continue defining argument. | | | | | |
| BOX-MARK | Enter BOX/LINE mode. | ERROR | ERROR | ERROR | | | | | |
| BREAK | Interrupt a search or a filter. | No effect. | No effect. | No effect. | | | | | |
| CANCEL | Remove an error message or popup
box from the screen. | Removes box. | Removes box. | Removes box. | | | | | |
| CENTER | Center current line between margins. | ERROR | X is positive. Center X lines. | Center all lines within the box or line region. | | | | | |
| DELETE | Delete CCL (Note 3). Deleted text is available with RESTORE. | Delete the right part of the CCL start-
ing at the cursor position, replacing it
with the line below CCL. Deleted text
is available with RESTORE. | X is positive. Delete X lines starting
with CCL. Deleted text is available
with RESTORE. | Delete lines or block defined by
cursor. Deleted text is available
with RESTORE. | | | | | |

2. When an error message results from using ENTER motion FUNCTION, you might need to use CANCEL twice; the first CANCEL removes the error message and the second CANCELs the ENTER motion sequence.

3. CCL stands for "Current Cursor Line."

FUNCTION	Action of FUNCTION	Action of ENTER FUNCTION	Action of ENTER X FUNCTION (X is any argument)	Action of ENTER motion FUNCTION (motion is a combination of cursor-positioning functions.)
DELETE- CHARACTER	Delete the character under the cursor.	Delete from the cursor to the end of CCL.	ERROR	ERROR
DO	Run last DO function exactly as it was given.	Print last DO function.	X is a command in the format $[n[1]]$ prg [arg]. Replace n paragraphs (or n lines if 1 appears) by the result of running filter prg on that text with given args. Old paragraphs are avail- able with RESTORE.	ERROR
END-LINE	Move the cursor to the last non- space character of the current line.	Enter BOX/LINE mode; define a region to the last nonspace character of the current line.	ERROR	Continue defining argument.
ENTER	Begin accepting function arguments.	Removes box.	Removes box.	Removes box.
EXECUTE	Select a menu item; answer a ques- tion in the affirmative.	No effect.	No effect.	ERROR
EXIT	Exit editor. All altered files are written to disk.	ERROR	ENTER q EXIT saves all structured files and not ASCII files.	Same as EXIT.
FONT	Exchange current and alternate fonts. Initial current font is Roman, alternate is continuous underline.	Save current font as alternate font; set current font to Roman, with no under- line.	X is a string. Save current font as alternate font; set current font as specified by X. Permissible values for X are c, w, or g (continuous- or word-underline, or graphics.)	ERROR

FUNCTION	Action of FUNCTION	Action of ENTER FUNCTION	Action of ENTER X FUNCTION (X is any argument)	Action of ENTER motion FUNCTION (motion is a combination of cursor-positioning functions.)			
FORMAT	Format the current paragraph with the margins set on the screen. The old version of the text is available with RESTORE.	ERROR	ERROR	ERROR			
FUNCTIONS	Display the currently active FUNCTIONS menu.	Display the functions active while using ENTER.	Display the functions active while using ENTER X FUNCTION.	g Display the functions active while using ENTER motion FUNCTION.			
GO-ТО	Move window so line 1 of file is top line. If already at line 1, move to the last line in the file.	Move window so last line of file is in the middle of the window.	X is positive. Move window so line X of file is in the middle of the window.	f ERROR			
HELP	Explain the current situation.	Explain the ENTER function.	Explain the ENTER function.	Describe TEXT mode.			
HOME	Move the cursor to the upper left- hand corner of the screen.	Enter BOX/LINE mode and draw box from original cursor position to HOME position.	ERROR	Enter BOX/LINE mode and draw box from original cursor position to HOME position.			
INSERT	Insert a blank line at CCL.	Move the right part of CCL starting at the cursor position to a new next line.	X is positive. Insert X blank lines above CCL.	Insert blank lines or block in area defined by cursor.			
INSERT- MODE	Alternate between insert and over- strike mode.	Alternate between insert and overstrike mode.	Alternate between insert and overstrike mode.	ERROR			
LAST-ARG	Display last ENTER argument.	Display last ENTER argument.	Display last ENTER argument.	ERROR			
LEFT	Move window left one-third of its width or to file boundary, which- ever is less.	Move window so that the column the cursor is in is the rightmost column.	X is positive. Move window left X columns or to file boundary, whichever is less.	Allow cursor-defined region to span vertical screen boundary.			

FUNCTION	Action of FUNCTION	Action of ENTER FUNCTION	Action of ENTER X FUNCTION (X is any argument)	Action of ENTER motion FUNCTION (motion is a combination of cursor-positioning functions.)
+LINE -LINE	Move window forward (+) or back- ward (-) part of a page.	Move window so CCL is the first line in window $(+)$ or last line in window $(-)$.	X is positive. Move window forward $(+)$ or backward $(-)$ X lines.	Allow cursor-defined region to span horizontal screen boundary.
LINE-FEED	Put cursor in the first column of the next line of a ganged field if not on the last line or if the field is scrollable. Otherwise, ERROR.	ERROR	ERROR	ERROR
LOCAL- MENU	Display the local, data-specific task menu.	Display the local, data-specific task menu.	Display the local, data-specific task menu.	ERROR
MARGIN	Set left margin at current cursor column.	Set right margin at current cursor column. Enables <i>word wrap</i> if right margin is to the right of the left margin.	ERROR	Set left margin to left edge of the cursor-defined area and right margin to right edge.
MENU	Display the New Task Menu.	Display the New Task Menu.	Execute command X; display the results in a popup box, if possible.	ERROR
NEXT	Display the next item in a list.	ERROR	X is positive. Display the X th item in a list.	ERROR
NEXT- WINDOW	The next window becomes the current window.	The last window becomes the current window.	ERROR	ERROR
+PAGE -PAGE	Move window forward (+) or back- ward (-) one page.	Begin definition of cursor-defined argument.	X is positive. Move window forward or backward X pages.	Allow cursor-defined region to span horizontal screen boundary.
РІСК-СОРУ	Add CCL to buffer; move cursor to next line.	ERROR	X is positive. Place copy of X lines starting with CCL in buffer.	Place lines or block defined by cursor in buffer.
PICK-UP	Pick up CCL and add it to buffer.	Pick up the part of CCL starting with cursor position, replace it with the line below CCL and place it in the buffer.	X is positive. Pick up X lines starting with CCL and put them in buffer.	Pick up lines or block defined by cursor and put it in buffer.
PREVIOUS	Display the previous item in a list.	ERROR	X is positive. Display the X th item in a list.	ERROR

FUNCTION	Action of FUNCTION	Action of ENTER FUNCTION	Action of ENTER X FUNCTION (X is any argument)	Action of ENTER motion FUNCTION (motion is a combination of cursor-positioning functions.)
PRINT	Display the menu of print options.	ERROR	ERROR	ERROR
PUT-COPY	Place newest contents of buffer at cursor position (Note 4).	ERROR	X is positive. Place X copies of buffer contents at cursor location.	ERROR
PUT-DOWN	Move newest contents from buffer to cursor position (Note 4).	ERROR	X is positive. Place X copies of buffer contents at cursor position.	ERROR
QUIT	Terminate editing session after attempting to save files.	Terminate editing session after attempt- ing to save files.	Terminate editing session after attempt- ing to save files.	Terminate editing session after attempting to save files.
QUOTE	Translate the next typed character into its CRTL key equivalent.	ERROR	ERROR	ERROR
REFRESH	Redraw display.	Redraw display.	Redraw display.	Redraw display.
REPLACE	Replace the search string with the replace string.	Set the replace string to null. If cursor is at the beginning of the search string, that string is deleted.	X is a replace string. If cursor is at the beginning of the search string, it is replaced with the replace string.	ERROR
RESTORE	Place last-deleted text at cursor position (Note 4).	ERROR	X is positive. Place X copies of last deleted text at cursor position.	ERROR
RETURN	Move the cursor to the beginning of the next line.	Enter BOX/LINE mode; move the cur- sor to the left end of the next line.	ERROR	Continue defining argument.
RIGHT	Move window right one-third of its width or to file boundary, which- ever is less.	Move window so that the column the cursor is in is the leftmost column.	X is positive. Move window right X columns or to file boundary, whichever is less.	Allow cursor-defined region to span vertical screen boundary.

4. If buffer contains full lines, CCL and following lines are pushed down to make room for inserted lines. If buffer contains a rectangular area, its contents are inserted with the upper left-hand corner of the block at the cursor position; the text to the right of the inserted material is pushed to the right.

FUNCTION	Action of FUNCTION	Action of ENTER FUNCTION	Action of ENTER X FUNCTION (X is any argument)	Action of ENTER motion FUNCTION (motion is a combination of cursor-positioning functions.)		
SAVE	Write current file out on disk if it has been modified since last SAVE.	Write current file out on disk if it has been modified since last SAVE.	Write current file out on disk and copy it into file named X.	ERROR		
+SEARCH -SEARCH	Search forward (+) or backward (-) for the last string searched for (if any).	Search forward $(+)$ or backward $(-)$ for the string pointed to by the cursor up to the first blank.	Search forward $(+)$ or backward $(-)$ for the string X.	or		
SET-TAB	Set tab stop at cursor column.	Remove tab stop at cursor column.	ERROR	ERROR		
ТАВ —ТАВ	Move the cursor to the next tab stop right (TAB) or left (-TAB).	Enter BOX/LINE mode; define a region to the next tab stop.	ERROR	Continue defining argument.		
TEXT-MARK	Enter TEXT mode.	ERROR	ERROR	ERROR		
USE	Switch window to alternate file; current file becomes alternate file.	Edit file taking name from cursor posi- tion up to next blank; old current file becomes alternate file.	Edit file named X as current file; old current file becomes alternate file.	ERROR		
WINDOW	Make a new window containing current file with border extending from current cursor position.	Delete all windows except the one con- taining the cursor.	Make a new window and edit file X in it.	ERROR		
ZOOM-IN	Display more detailed information.	ERROR	ERROR	ERROR		
ZOOM-OUT	Display more summary informa- tion.	ERROR	ERROR	ERROR		

Appendix B: UTILITY PROGRAMS FOR STRUCTURED FILES

Programs described in this appendix are useful for manipulating the structured files described in §2.2. To run these programs, use <u>MENU</u> and select the option Execute UNIX shell commands. This will cause the editor to move into a subshell. To exit the subshell, use <u>RETURN</u>, then press Ctrl-d.

ghost oldname [newname [m/d/y [h:m:s]]]

Creates the version of *oldname* that existed at the time indicated by the last two arguments. If the last two arguments are omitted, the most recent version is produced. The output is put into *newname*. If *newname* is omitted, *oldname* is backed up in a . bak file and the results are put into *oldname*.

history *filename*

Prints out a detailed description of the history of changes to the structured file *filename*.

newfile asciifile [structuredfile]

Converts *asciifile* from ASCII to structured format and places it into *structuredfile*. If no second argument is given, the first argument file is saved into a .bak file and converted to structured format.

```
readfile filename
```

Writes the structured file *filename* onto the screen. Thus, readfile *filename* > *newfilename* can be used to convert the structured file *filename* into the ASCII file *newfilename*.

```
rmhist file [ file ... ]
```

Takes a list of files and removes the history information from each. The original version is saved in a .bak file. If the original file is not structured, a warning is given and the next file is processed.

versions filename

Uses history but only prints out the times when the file was changed. The result can be used to create an argument to ghost to recreate a file as it existed at a certain moment in its history.

Appendix C: BOX CHARACTER SET

Box characters can be entered from the editor by using the graphics font or <u>QUOTE</u>. To create a box character, either enter the graphics font by using <u>ENTER</u> g <u>FONT</u>, or use <u>QUOTE</u> and type the letter that corresponds to the character you want:

Graphics Font/QUOTE	
Character	Box Character
s	upper left-hand corner
w	left-hand intersection of two corners
f	lower left-hand corner
q	horizontal line
t	top intersection of two corners
Z	central intersection of four corners
r	bottom intersection of two corners
đ	upper right-hand corner
e	right-hand intersection of two corners
а	vertical line
g	lower right-hand corner

Some terminals support a graphics character set to represent box characters. Others use standard keyboard characters to represent box characters. On displays that support graphics characters, the standard box characters in the graphics font (and their corresponding keys) are:

 $\begin{bmatrix} s & -q & \top^t & & \rceil^d \\ \end{bmatrix} w & +z & \uparrow^e \\ & & & \downarrow^a \\ \lfloor_f & \bot_r & \rfloor_g$

Appendix D: ERROR MESSAGES

This appendix provides a glossary that defines terms used in error messages generated by the editor. It also explains each error message and gives suggestions for correcting each error situation.

The editor displays each error message in a popup box on the screen. Most frequently, error messages result when you use a function that is not valid in the current context, or when you attempt to perform an operation that makes no sense (such as deleting -3 lines).

Most of the error messages issued by the editor are listed below in alphabetical order. Error messages not listed probably indicate system or editor malfunctions and should be reported if they persist. It should be noted that in the event an operating system problem prevents a file from being saved, your editing session will not be lost. After the problem is corrected, type e without an argument at the command level to cause automatic recovery of the file.

1. GLOSSARY

Field:	A field is an attribute of a structured data file and is defined in the form used to enter and display data. A field is assigned either a text data path or a tree data path. A field with a text data path can contain only text; a field with a tree data path, also referred to as an <i>indexed</i> or <i>list</i> field, contains more complex data.
Ganged Fields:	Ganged fields are spatially adjacent fields that have tree data paths with at least one element common to all members of the gang.
Indexed Field:	An indexed field is used in a structured data file and has a tree data path. Indexed fields are often adjacent to one another in a form (see also "Ganged Fields"). This example shows ganged, indexed fields:

	1 1
	1 1
	1 1
1	1
	1

Item: An item consists of the data in one line of an indexed field.

- List Field: A list field is the same as an indexed field.
- Structured File: A structured file contains information about the structure of the data in the file and about any changes that have been made to the data. A structured file contains hierarchical data that is displayed and edited using forms and may have multiple levels accessed via ZOOM-IN and ZOOM-OUT. The top level is the first level displayed when a structured file is edited.

2. ERROR MESSAGES

Alternate file "filename" does not exist.

Cause: You have used USE to switch to the alternate file, but the alternate file does not exist. It may have been removed or renamed, or you may never have defined an alternate file.

Action: Use **ENTER** filename **USE** to switch to an existing file.

Cannot backup file "filename".

- Cause: You have used ENTER filename SAVE. This involves creating a backup copy of the file. Due to operating system problems, this is impossible. Usually, this means that you do not have write permission in the current directory. The file will not be saved.
- Action: Change the access permissions or ask your system administrator to solve the operating system problem, then try **SAVE** again.

Cannot create directory "directory".

- Cause: You have attempted to create *directory*; this operation has failed, possibly due to a lack of space.
- Action: Contact your system administrator.

Cannot create file "filename".

- Cause: You have attempted to create a file via <u>MENU</u>, but the editor cannot create the file; or you have tried to create a file when the disk is full.
- Action: Contact your system administrator.

Cannot edit a ".index" file.

- Cause: You have attempted to edit a file whose name is either *index* or ends with *.index*. You are not allowed to edit these files.
- Action: Select another file to edit.

Cannot edit a special file.

- Cause: You are attempting to edit a special UNIX file. This might be a non-editable directory or device. The editor is not capable of editing these.
- Action: Select another file to edit.

Cannot edit directory "*directory*" without read and execute permission.

- Cause: You have attempted to edit a directory in which you do not have read or execute permission.
- Action: Change the access permissions or ask your system administrator to change them so that you have read and execute permission, then try again.

Cannot edit file beginning with '...'.

- Cause: You have attempted to edit a file that has the characters ... at the beginning of the file name. These files cannot be edited.
- Action: Select another file to edit.

Cannot edit file "filename" without read permission.

- Cause: You do not have permission to read filename.
- Action: Use **LOCAL-MENU** to change the file's permission bits and re-edit it.

Cannot find help message file for this application.

- Cause: You have used **HELP** while in a TEN/PLUS application, and the system is unable to locate the help message file for that application. Either the application was not installed properly or the search paths specified in the Editor Search Paths section of your editor profile are incorrect.
- Action: Make sure that the Editor Search Paths section of your editor profile includes a separate line specifying \$SYS/hmgs as a search path. If this line is specified correctly and this message displays, contact your system administrator.

Cannot format in a list field.

- Cause: You have used **FORMAT** in a field with a tree data path (that is, an indexed field). **FORMAT** can be used only in fields having text data paths.
- Action: No action required.
- Cannot go to next item in a list of files.
 - Cause: You have used <u>NEXT</u> while at the top level of a file. <u>NEXT</u> works only when you have used <u>ZOOM-IN</u> in a structured file having tree data paths.
 - Action: **ZOOM-IN** to the file if possible, then try to use **NEXT**.
- Cannot go to next item of this list.
 - Cause: You have used **NEXT** when there is no next item in the list.
 - Action: **ZOOM-IN** or **ZOOM-OUT** if possible, then try to use **NEXT**.
- Cannot go to previous item in a list of files.
 - Cause: You have used **PREVIOUS** while at the top level of a file. **PREVIOUS** only works when you have used **ZOOM-IN** in a structured file having tree data paths.
 - Action: **ZOOM-IN** to the file if possible, then try to use **PREVIOUS**.
- Cannot go to previous item of this list.
 - Cause: You have used **PREVIOUS** when there is no previous item in the list.

- Action: **ZOOM-IN** or **ZOOM-OUT** if possible, then try to use **PREVIOUS**.
- Cannot join in indexed field.
 - Cause: You have used either ENTER PICK-UP or ENTER DELETE to combine two lines while in a field with a tree data path (that is, an indexed field). ENTER PICK-UP and ENTER DELETE can be used only in fields with text data paths.
 - Action: To join the lines, use pick and put operations in conjunction with **BOX-MARK** and the horizontal and/or vertical cursorpositioning functions.

Cannot open form "form".

- Cause: Either you have used ZOOM-IN in a field for which the editor can find no zoom form, or you have used the Change form menu option to specify a form that the editor cannot find. If the editor cannot find a zoom form, the form may be installed in the wrong place. If this message displayed when you used MENU, you may have specified an invalid form name.
- Action: If this error displayed while you were trying to **ZOOM-IN** to a field in a form, check the Editor Search Paths section of your editor profile; if necessary, contact your system administrator. If this error displayed while using the Change form menu option, provide a valid form name to the option.

Cannot open output file "filename".

- Cause: You have tried to edit *filename*, but the editor is unable to open it. Either you do not have permission to create the file or directory, you have specified an illegal name, or the disk is full.
- Action: Change the permission bits so that you can create the file or directory. To edit the file or directory, specify its legal name. If the disk is full, contact your system administrator.

Cannot put a window there.

Cause: You have attempted to create a window that is too small to contain data.

Action: Move the cursor and try again.

Cannot run program to "program".

Cause: You have tried to run a program that cannot execute.

Action: Contact your system administrator.

Cannot save editor state in file "filename".

- Cause: The editor attempts to remember what you were doing just before you use \boxed{EXIT} so that you can continue the next time you run the editor. It does this by saving its state in a file. The attempt to open this file has failed. The next time you start the editor without an argument, you will be looking at a default file.
- Action: No action required.

Cannot split in indexed field.

- Cause: You have used ENTER INSERT to split a line while in a field with a tree data path (that is, an indexed field). ENTER INSERT can be used only in fields having text data paths.
- Action: To split the line, use pick and put operations in conjunction with **BOX-MARK** and the horizontal and/or vertical cursorpositioning functions.

Cannot use TEXTREGION in a ganged field.

- Cause: You have used **TEXT-MARK** to specify a region of text in a ganged field. **TEXT-MARK** can only be used in fields with text data paths; ganged fields have tree data paths.
- Action: To manipulate data in a ganged field, use pick and put operations in conjunction with **BOX-MARK** and the horizon-tal and/or vertical cursor-positioning functions.

Cannot write to /tmp.

- Cause: The operation you are trying to perform requires the editor to write to the /tmp directory. The editor is unable to complete the operation either because you do not have permission to write in the directory or there is not enough room in the directory.
- Action: Contact your system administrator.

Cannot zoom in any further.

- Cause: You have used **ZOOM-IN** at the lowest level of this file; you cannot **ZOOM-IN** any further.
- Action: No action required.
- Cannot zoom out any further.
 - Cause: You have used **ZOOM-OUT** in the top directory. You cannot **ZOOM-OUT** any further.
 - Action: No action required.
- Character to be quoted must be a letter.
 - Cause: You have attempted to use **QUOTE** to insert a character into the file. The correct sequence is **QUOTE** followed by an alphabetic character. The control equivalent is then inserted into the file. You have used a nonalphabetic character that has no control equivalent.
 - Action: Determine the correct text character to type and try again.
- Command does not take a numeric argument.
 - Cause: You have used **ENTER** followed by a number, followed by a function. The function, however, does not take a numeric argument.
 - Action: Refer to \$8 to determine the correct way to accomplish what you want to do and try again.
- Command does not take a region argument.
 - Cause: You have specified a region argument (using the cursor positioning functions with either **BOX-MARK**) or **TEXT-MARK**) to a function that does not accept region arguments.
 - Action: Refer to \$8 to determine the correct way to accomplish what you want to do and try again.

Command does not take a string argument.

- Cause: You have used **ENTER** followed by a string, followed by a function. The function, however, does not take a string argument.
- Action: Refer to \$8 to determine the correct way to accomplish what you want to do and try again.

Command does not take an empty argument string.

- Cause: You have used **ENTER** followed by a function. The function, however, does not take an empty argument string.
- Action: Refer to \$8 to determine the correct way to accomplish what you want to do and try again.

Command stopped by BREAK.

Cause: You have used **BREAK** while the editor was executing a command in a popup box.

Action: No action required.

Directory "directory" does not exist.

- Cause: You have attempted to edit a file in a nonexistent directory.
- Action: Specify a path to a file using existing directory names.

Error in LOCAL-MENU program.

- Cause: There is a problem in the application you are using. The editor will try to restart the application so that you can continue editing.
- Action: If the application does not restart, contact your system administrator.
- File "filename" has not been modified.
 - Cause: You are attempting to save file *filename*; but it has not been modified, so there is no need to save it.

Action: No action required.

File "filename" is not a text or structured file.

- Cause: You are attempting to edit a binary file. The editor is not capable of doing this.
- Action: Specify an ASCII or structured file and edit it.

File "/path/tofile" is not a directory.

Cause: You have tried to edit a file; however, the path to the file included a component that was not a directory. If this error occurred while using <u>MENU</u>, then some files have not been installed correctly.

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- Action: Specify a correct path. If this error occurred while using [MENU], contact your system administrator.
- Filter error on command "command".
 - Cause: The filter that you just ran has failed. It should have printed its own error message.
 - Action: Determine the cause of the error and try again.
- Filter stopped by BREAK.
 - Cause: You have used **BREAK** after using **DO**. **BREAK** stopped the editor from completing the execution of **DO** and caused this message to display.
 - Action: No action required.

Function key "function" has no special meaning for this data.

- Cause: You have used a function that is not defined for this data. (Some applications define functions (1) through (8) to perform operations specific to certain kinds of structured files.)
- Action: Use **LOCAL-MENU** to determine whether functions have been defined for the data you are editing.

Function not implemented.

- Cause: You have used a function that the editor does not recognize.
- Action: Use this manual to figure out the correct function and try again.

Helper error during restart.

- Cause: The application you are using did not restart correctly, and currently is not functioning properly.
- Action: **EXIT**, then try using the application again. If the application does not work after exiting and reentering the file, contact your system administrator.

Margin doesn't take a TEXTLINE region argument.

Cause: You have tried to use **TEXT-MARK** MARGIN to specify both the left and right margins simultaneously. MARGIN does not work with **TEXT-MARK**.

Action: Use **BOX-MARK** MARGIN to specify both margins at once.

Multiple windows are not implemented for non-text files.

- Cause: You have used WINDOW while editing a structured data file. WINDOW can only be used with text files.
- Action: No action required.
- Negative numeric argument not allowed.
 - Cause: You have tried to provide a negative number as an argument to a function that accepts numeric arguments. Negative numeric arguments are not allowed. Note, however, that negative numbers can be used as string arguments; for example, you can use **ENTER** -5 **+SEARCH**.
 - Action: Specify positive numeric arguments to commands.

No alternate file.

- Cause: You have used USE to switch to an alternate file, but there is no alternate file because the current file is the first one to be edited in this session.
- Action: Use ENTER filename USE to switch to a specific file.
- No file name on current line.
 - Cause: You have used **ZOOM-IN** on a blank line in the File Manager display.
 - Action: Move the cursor to a line containing a file name before using **ZOOM-IN**.

No filter string set.

- Cause: You have used **DO** expecting to rerun the last filter, but no previous filter string has been set.
- Action: Use **ENTER** argument **DO**.

No margins allowed in list fields.

Cause: You have used **MARGIN** while in a field with a tree data path (that is, a list field). Margins are not allowed in fields with tree data paths.

Action: No action required.

No margins allowed in one line fields.

Cause: You have tried to set margins in a one-line field. Margins are not allowed in one-line fields.

Action: No action required.

No output from "program".

- Cause: You have tried to run a program or command using **ENTER** program **MENU**. The program produced no output.
- Action: No action required.

No previous item in this list.

Cause: You have used **PREVIOUS** while looking at the first item in a list; there are no items preceding the one you are viewing.

Action: No action required.

No search string.

- Cause: You have used **+SEARCH** or **-SEARCH** expecting to search for a previously specified string, but this is your first attempt to search.
- Action: Use ENTER string +SEARCH or ENTER string -SEARCH to specify a search string.

No space after line count in "number".

- Cause: You have used **ENTER** number **DO** without specifying a command or without inserting a space between number and the command (for example, **ENTER** 5sort **DO**).
- Action: Specify a command using ENTER number command DO (for example, ENTER 5 sort DO).

No windows to delete.

Cause: You have used **ENTER WINDOW** to delete all but the current window. But the current window is the only window.

Action: No action required.

Output too large to fit here ("number" lines).

- Cause: You have used **EXECUTE**. It has generated more data than will fit into memory.
- Action: No action required.

Restarting the editor on file "filename"....

- Cause: The editor has detected a situation from which it cannot recover. It will attempt to restart itself.
- Action: No action required.

Search failed on string "string".

Cause: There are no more occurrences of the search string in the file in the direction in which you were searching.

Action: No action required.

Stopped by BREAK.

- Cause: You have used **BREAK** to stop a search.
- Action: No action required.

String argument not allowed to next/previous.

Cause: You have used ENTER string NEXT or ENTER string PREVIOUS in a situation in which NEXT and PREVIOUS do not accept string arguments.

Action: No action required.

Tabs not allowed in this field.

- Cause: You have tried to use **SET-TAB** or **ENTER SET-TAB** in a field that does not have tabs defined. This is not allowed.
- Action: No action required.

The available fonts are "r" for roman, "w" for word underlining, "c" for continuous underlining, and "g" for graphics characters.

Cause: You have specified an illegal argument to FONT.

Action: Select a font from the set [rwcg].

The current filter string is "filter".

Cause: You have used **ENTER DO**; this instructs the editor to display this message indicating the *filter* last used. This *filter* will be used if **DO** is used without any arguments.

Action: No action required.

The cursor is not on a file name or character string.

- Cause: You have used the sequence **ENTER USE** to switch to another file; however, the cursor is not on a file name.
- Action: To switch to another file using USE, either: (1) use ENTER, type a file name in the popup box that displays, then use USE; or (2) move the cursor to the name of a file displayed on the screen, then use ENTER USE.

There are non-printing characters in "file"

- Press Execute to edit "file" or press Cancel or Help."
 - Cause: You have entered a file name that contains characters that do not display, for example, control characters.
 - Action: **EXECUTE** to edit this file, otherwise, **CANCEL**.

There is no item "number" in this list.

- Cause: You have used ENTER number NEXT or ENTER number PREVIOUS to move to a specific item; however, NEXT and PREVIOUS do not work at this level of the file.
- Action: Use ZOOM-IN or ZOOM-OUT if possible, then try using NEXT or PREVIOUS. If NEXT and PREVIOUS work, use ENTER number NEXT or ENTER number PREVIOUS to move to a specific item.

There is no LOCAL-MENU for this data.

Cause: You have used **LOCAL-MENU** when there is no local menu for the type of data being edited.

Action: No action required.

There is no place available to save files.

- Cause: You have tried to move or copy files using **DELETE**, **PICK-UP**, or **PICK-COPY**. The files are usually saved before they are moved, but the File Manager is unable to perform the save, either because you do not have write permission in your **\$HOME/.putdir** directory, or because your user i.d. has changed.
- Action: Make sure that your \$HOME/.putdir directory allows you write permission. Contact your system administrator if necessary.

Unable to close file "file" during SAVE.

- Cause: You have used **SAVE** while editing the current file; but, due to a lack of space on the disk, the system cannot save the file.
- Action: Contact your system administrator before exiting the system.

Unable to restart helper "helper".

- Cause: You have returned to an application that you were using earlier, but the editor is unable to restart the helper.
- Action: Contact your system administrator. To continue working with the file, **EXIT** and reenter the file.
- Warning: cannot fix file modes of "filename".
 - Cause: The editor was attempting to use the *chmod* system call on *filename*. The attempt failed. The editor will continue to try to open and save the file.
 - Action: If the file modes for the file are not those you desire, use the *chmod* command to change them.

Warning: write error on file "filename".

Cause: You have used **ENTER** filename **SAVE**. In attempting to write data into filename, the operating system encountered a disk write failure. No further data will be written.

- Action: Determine the reason for the write failure, correct it, and try again.
- You cannot modify this field.
 - Cause: You are trying to modify a field that has read permission only; this is not allowed.
 - Action: No action required.

You cannot modify this file.

- Cause: You are attempting to type into or otherwise modify a file for which you do not have write permission.
- Action: Change the permissions (if you are allowed to do so) and reedit the file.

You cannot put a text region in a list field.

- Cause: You have used **TEXT-MARK** and the cursor-positioning functions to pick up a text region then tried to put the text down in a field that has a tree data path (a list field). Fields with tree data paths cannot accept text regions.
- Action: To move data from a field with a text data path to a field with a tree data path, use the pick and put operations alone or in conjunction with **BOX-MARK** and the horizontal and/or vertical cursor-positioning functions.

You cannot put "type" data in this field.

- Cause: You have used **PICK-UP**, **PICK-COPY**, or **DELETE** to pick data from one type of field (such as a field with a tree data path), then tried to put it into another type of field (such as a field with a text data path or another type of tree data path). The data that you have picked can only be put into a field having the same structure.
- Action: To pick text from any field, use the pick and put operations with **BOX-MARK** and the horizontal and/or vertical cursorpositioning functions. Text picked up in this way can be put into any type of field.

You cannot set the left margin to the right of the right margin.

- Cause: You have tried to set the left margin to the right of the right margin; this is not allowed.
- Action: To set the left margin, move the cursor to a position to the left of the right margin and use **MARGIN**.

You cannot set the right margin to the left of the left margin.

- Cause: You have tried to set the right margin to the left of the left margin. This is not allowed.
- Action: To set the right margin, move the cursor to a position to the right of the left margin and use **ENTER MARGIN**.

You cannot use the DO key in a list field.

- Cause: You have tried to use **DO** in a field with a tree data path (that is, a list field). **DO** can only be used in a field with a text data path.
- Action: No action required.
- You do not have execute permission in "/path/directory".
 - Cause: You are trying to edit a file that is located in a directory in which you do not have execute permission.
 - Action: Change the access permissions (if possible) or ask your system administrator to do so, then try again.

You do not have write permission in this directory.

- Cause: You are trying to edit a file that is located in a directory in which you do not have write permission.
- Action: Change the access permissions (if possible) or ask your system administrator to do so, then try again.

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Keyboard Information



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TEN/PLUS Keyboard Information

1. INTRODUCTION

1.1 Overview of This Document

Functions in the TEN/PLUS® environment are invoked through function keys or special key sequences. Different key sequences are required to invoke TEN/PLUS functions on different keyboards. This document shows the keyboard layout and function locations for various keyboards supported by the TEN/PLUS system and explains how to invoke TEN/PLUS functions on each. It is only necessary to read the section that describes your particular keyboard.

This document is intended as a supplement to other TEN/PLUS documents. It is essential that you keep it handy while reading the "TEN/PLUS Tutorial" and the "TEN/PLUS Reference Manual" in this guide.

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2. INTEXT II

2.1 The INtext II Keyboard

Figure 1 shows the $INtext^{TM}$ II keyboard layout and function locations for the TEN/PLUS system. If you are using TEN/PLUS keycap covers, it is not necessary to refer to §2.2.


To invoke a function indicated by *mining*, hold down the CTRL key and touch the designated key at the same time.

Figure 1. INtext II Keyboard Layout for the TEN/PLUS System

2.2 TEN/PLUS Functions on the INtext II Keyboard

Functions are accessed in one of two ways on an INtext II:

- 1. Touch the defined key. For example, **ZOOM-OUT** is invoked by touching 0 (zero) on the numeric keypad.
- 2. Hold down the CTRL key, then touch the defined key. For example, **TEXT-MARK** is invoked by holding down CTRL, then touching t.

To log out from the system level, hold down the CTRL key while simultaneously touching d.

Function	Keystrokes
(1)	1 on the numeric keypad
(2)	2 on the numeric keypad
(3)	3 on the numeric keypad
(4)	4 on the numeric keypad
(5)	5 on the numeric keypad
(6)	6 on the numeric keypad
(7)	7 on the numeric keypad
(8)	8 on the numeric keypad
Î	+ left of the numeric keypad
→	\rightarrow left of the numeric keypad
I	+ left of the numeric keypad
₽	← left of the numeric keypad
BACKSPACE	BACKSPACE on the keyboard
BEGIN-LINE	CTRL a on the keyboard
BOX-MARK	CTRL b on the keyboard
BREAK	BREAK above the keyboard
CANCEL	CANCEL above the keyboard
CENTER	CENTER above the keyboard
DELETE	CTRL c on the keyboard

DEL CH above the keyboard
DO above the keyboard
CTRL e on the keyboard
ENTER on the keyboard
DO above the keyboard
EXIT on the keyboard
FONT above the keyboard
FORMAT above the keyboard
CTRL g on the keyboard
GO TO above the keyboard
Blank key between REPLCE and QUOTE above the keyboard
HOME above the keyboard
OPEN above the keyboard
INSERT above the keyboard
CTRL 1 on the keyboard
LEFT next to the numeric keypad
+LINE next to the numeric keypad
-LINE next to the numeric keypad
LINE FEED on the right of the keyboard
9 on the numeric keypad
MARGIN above the keyboard
Blank key between PICK and PRINT above the keyboard
. on the numeric keypad
CH WIN above the keyboard
+PAGE next to the numeric keypad

-PAGE	-PAGE next to the numeric keypad
PICK-COPY	PICK above the keyboard
PICK-UP	CLOSE above the keyboard
PREVIOUS	CTRL p on the keyboard
PRINT	PRINT above the keyboard
PUT-COPY	PUT above the keyboard
PUT-DOWN	RESTORE above the keyboard
QUIT	CTRL \setminus on the keyboard
QUOTE	QUOTE above the keyboard
REFRESH	REFRSH above the keyboard
REPLACE	REPLCE above the keyboard
RESTORE	CTRL r on the keyboard
RETURN	RETURN on the right of the keyboard
RIGHT	RIGHT next to the numeric keypad
SAVE	SAVE above the keyboard
+SEARCH	+SRCH next to the numeric keypad
-SEARCH	-SRCH next to the numeric keypad
SET-TAB	TABSET above the keyboard
TAB	TAB on the keyboard
-TAB	-TAB on the keyboard
TEXT-MARK	CTRL t on the keyboard
USE	USE above the keyboard
WINDOW	WIN above the keyboard
ZOOM-IN	, on the numeric keypad
ZOOM-OUT	0 on the numeric keypad

3. VT100

3.1 The VT100 Keyboard

Figure 2 shows the VT100TM keyboard layout and function locations for the TEN/PLUS system. If you are using TEN/PLUS keycap covers, it is not necessary to refer to \$3.2.



To invoke a function indicated by *mining*, hold down the CTRL key and touch the designated key at the same time.

To invoke a function indicated by _____, hold down the CTRL and a keys *simultaneously*, then release both and touch the designated key.

To invoke a function indicated by _____, touch the ESC key, then release it and touch the designated key.

Figure 2. VT100 Keyboard Layout for the TEN/PLUS System

3.2 TEN/PLUS Functions on the VT100 Keyboard

Functions are accessed in one of four ways on a VT100:

- 1. Touch the defined key. For example, **FORMAT** is invoked by touching 7 on the numeric keypad.
- 2. Hold down the CTRL key, then touch the defined key. For example, [HELP] is invoked by holding down CTRL, then touching the ? key.
- 3. Hold down the CTRL and a keys simultaneously, release both, then touch the designated key. For example, **SAVE** is invoked by touching CTRL and a together, then releasing both keys, and touching s.
- 4. Touch ESC, then touch the appropriate number on the main keyboard above the alpha characters. For example, (1) is invoked by touching ESC, then touching 1 on the main keyboard.

To log out from the system level, hold down the CTRL key while simultaneously touching d.

Function	Keystrokes
	ESC then 1 on the keyboard
(2)	ESC then 2 on the keyboard
(3)	ESC then 3 on the keyboard
(4)	ESC then 4 on the keyboard
(5)	ESC then 5 on the keyboard
(6)	ESC then 6 on the keyboard
(7)	ESC then 7 on the keyboard
(8)	ESC then 8 on the keyboard
Î	\uparrow on the upper row of the keyboard
I	+ on the upper row of the keyboard
E	\leftarrow on the upper row of the keyboard
➡	\rightarrow on the upper row of the keyboard
BACKSPACE	BACKSPACE to the left of the break key
BEGIN-LINE	CTRL b on the keyboard
BOX-MARK	CTRL a then b

BREAK	BREAK in the upper right-hand corner of the keyboard
CANCEL	, to the right of the numeric keypad
CENTER	CTRL a then c
DELETE	CTRL c on the keyboard
DELETE-CHARAC	TER
	DELETE key
DO	CTRL x on the keyboard
END-LINE	CTRL e on the keyboard
ENTER	ENTER to the right of the numeric keypad
EXECUTE	ENTER to the right of the numeric keypad
EXIT	CTRL d on the keyboard
FONT	CTRL f on the keyboard
FORMAT	7 on the numeric keypad
FUNCTIONS	CTRL a then j on the keyboard
GO-TO	CTRL g on the keyboard
HELP	CTRL ? on the keyboard
HOME	CTRL a then h on the keyboard
INSERT	8 on the numeric keypad
INSERT-MODE	CTRL a then i on the keyboard
LAST-ARG	CTRL a then 1 on the keyboard
LEFT	CTRL k on the keyboard
+LINE	- on the numeric keypad
-LINE	PF4 above the numeric keypad
LINE-FEED	LINE FEED on the right of the keyboard
LOCAL-MENU	PF2 above the numeric keypad
MARGIN	CTRL a then m on the keyboard
MENU	PF1 above the numeric keypad

NEXT	CTRL n on the keyboard
NEXT-WINDOW	CTRL a then n on the keyboard
+PAGE	9 on the numeric keypad
-PAGE	PF3 above the numeric keypad
PICK-COPY	1 on the numeric keypad
PICK-UP	4 on the numeric keypad
PREVIOUS	CTRL a then p on the keyboard
PRINT	CTRL p on the keyboard
PUT-COPY	2 on the numeric keypad
PUT-DOWN	5 on the numeric keypad
QUIT	$CTRL \setminus$ on the keyboard
QUOTE	CTRL a then q on the keyboard
REFRESH	CTRL z on the keyboard
REPLACE	CTRL r on the keyboard
RESTORE	CTRL v on the keyboard
RETURN	RETURN on the right of the keyboard
RIGHT	CTRL 1 on the keyboard
SAVE	CTRL a then s on the keyboard
+SEARCH	3 on the numeric keypad
-SEARCH	6 on the numeric keypad
SET-TAB	CTRL a then \mathbf{v} on the keyboard
TAB	TAB on the left of the keyboard
-TAB	CTRL t on the keyboard
TEXT-MARK	CTRL a then t on the keyboard
USE	CTRL u on the keyboard
WINDOW	CTRL w on the keyboard

ZOOM-IN	0 on the numeric keypad
ZOOM-OUT	. on the numeric keypad

4. IBM PERSONAL COMPUTERS

4.1 The IBM Personal Computer and IBM Personal Computer XT Keyboard

Figure 3 shows the IBM Personal Computer[®] (PC) and IBM Personal Computer XT^{TM} (PC XT) keyboard layout and function locations for the TEN/PLUS system.



To invoke a function indicated by , hold down the Alt key and touch the designated key at the same time.

To invoke a function indicated by 2000, hold down the Shift key and touch the designated key at the same time.

Figure 3. IBM Personal Computer and Personal Computer XT Keyboard Layout for the TEN/PLUS System حد

4.2 The IBM Personal Computer AT Keyboard

Figure 4 shows the IBM Personal Computer AT[®] (PC AT) keyboard layout and function locations for the TEN/PLUS system.

C.M.A	(2)	~	`	@	#	Ť	s	%	^	å	*	()		+	1	$ \rightarrow $		Num	Scroll	Sys
MENU	MENU		1	2	3		4	5	6	7	8	9	0	-	=		BACK	ESC	LOUR	BREAK	ney
(* M * *	(4)	(//////////////////////////////////////			DOW T	F	RIGH				· 1			1	}			PREVIOUS	-SEARCH	- PAGE	PRINT
FORMAT	INSERT	ТАВ		, L		-								I	1			HOME	L Ť .	-LINE	*
PICK	(16)	Ctrl		ANG		T . P		ONT T		??? .])	S alar J	Ľ	LEFT T:	Υ"	T		⊢	BEGIN	REPLACE	END	
UP	DOWN												;	Ľ		R	ETURN	←	HELP		CANCEL
PICK	. 🦛 1	AL SPU	m	7		୍ୟ	CENTER	TAB	MARK	WINDOV	ALARG	NY <	>	7,		x Shift		NEXT	+ SEARCH	+ PAGE	
COPY	COPY											,	ŀ	1	<u>XIII</u>			GO TO	\downarrow	+ LINE	EXECUTE
ZOOM	700M		Ċ.														Caps	2° • 965	TORE	DELETE	
IN	OUT		201														Lock	IN: M	SERT ODE	DELETE	ENTER

To invoke a function indicated by ____, hold down the Alt key and touch the designated key at the same time.

To invoke a function indicated by $\boxed{2}$, hold down the Shift key and touch the designated key at the same time.

Figure 4. IBM Personal Computer AT Keyboard Layout for the TEN/PLUS System

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4.3 TEN/PLUS Functions on the IBM Personal Computer Keyboards

Functions are accessed in one of three ways on an IBM PC, an IBM PC XT, and an IBM PC AT:

- 1. Touch the defined key. For example, **HELP** is invoked by touching 5 on the numeric keypad. (The Num Lock key must *not* be on.)
- 2. Hold down the Alt key, then touch the defined key. For example, \boxed{DO} is invoked by holding down the Alt key and touching x.
- 3. Hold down the Shift key, then touch the defined key. For example, <u>-TAB</u> is invoked by holding down the Shift key and touching i←.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	Alt F1 on the function keypad
(2)	Alt F2 on the function keypad
(3)	Alt F3 on the function keypad
(4)	Alt F4 on the function keypad
(5)	Alt F5 on the function keypad
(6)	Alt F6 on the function keypad
(7)	Alt F7 on the function keypad
(8)	Alt F8 on the function keypad
Ī	+ on the numeric keypad
I	+ on the numeric keypad
-	← on the numeric keypad
→	\rightarrow on the numeric keypad
BACKSPACE	← to the right of + and = and above the numeric keypad
BEGIN-LINE	Alt \leftarrow on the numeric keypad
BOX-MARK	Alt b on the keyboard
BREAK	Scroll Lock in the upper right-hand corner of the keyboard

CANCEL	- to the right of the numeric keypad
CENTER	Alt c on the keyboard
DELETE	Alt Del below the numeric keypad
DELETE-CHARAC	TER
	Del below the numeric keypad
DO	Alt x on the keyboard
END-LINE	Alt \rightarrow on the numeric keypad
ENTER	+ to the right of the numeric keypad
EXECUTE	+ to the right of the numeric keypad
EXIT	Alt d on the keyboard
FONT	Alt f on the keyboard
FORMAT	F3 on the function keypad
FUNCTIONS	Alt h on the keyboard
GO-TO	End on the numeric keypad
HELP	5 on the numeric keypad
HOME	Home on the numeric keypad
INSERT	F4 on the function keypad
INSERT-MODE	Ins below the numeric keypad
LAST-ARG	Alt a on the keyboard
LEFT	Alt 1 on the keyboard
+LINE	Pg Dn on the numeric keypad
-LINE	Pg Up on the numeric keypad
LINE-FEED	Alt j on the keyboard
LOCAL-MENU	F2 on the function keypad
MARGIN	Alt m on the keyboard
MENU	F1 on the function keypad
NEXT	Alt End on the numeric keypad
NEXT-WINDOW	Alt n on the keyboard

+PAGE	Alt Pg Dn on the numeric keypad
-PAGE	Alt Pg Up on the numeric keypad
PICK-COPY	F7 on the function keypad
PICK-UP	F5 on the function keypad
PREVIOUS	Alt Home on the numeric keypad
PRINT	Alt Prt Sc to the right of the keyboard
PUT-COPY	F8 on the function keypad
PUT-DOWN	F6 on the function keypad
QUIT	$Ctrl \setminus on$ the keyboard
QUOTE	Alt q on the keyboard
REFRESH	Alt z on the keyboard
REPLACE	Alt 5 on the numeric keypad
RESTORE	Alt Ins below the numeric keypad
RETURN	\leftarrow to the right of the keyboard
RIGHT	Alt r on the keyboard
SAVE	Alt s on the keyboard
+SEARCH	Alt \downarrow on the numeric keypad
-SEARCH	Alt + on the numeric keypad
SET-TAB	Alt v on the keyboard
TAB	\rightarrow I to the left of the keyboard
-TAB	Shift ← to the left of the keyboard
TEXT-MARK	Alt t on the keyboard
USE	Alt u on the keyboard
WINDOW	Alt w on the keyboard
ZOOM-IN	F9 on the function keypad
ZOOM-OUT	F10 on the function keypad

5. IBM 3101-1X AND IBM 3101-2X

5.1 The IBM 3101 Keyboards

Figure 5 shows the IBM[®] 3101-1x keyboard layout and function locations for the TEN/PLUS system and notes the differences for the IBM 3101-2x keyboard.



To invoke a function indicated by $\boxed{\}$, hold down the ALT key and touch the designated key at the same time.

To invoke a function indicated by *mining*, touch and release the ESC key, then touch the designated key.

An asterisk (*) is used to indicate the location of a function on an IBM 3101-2x keyboard, if different from the location on an IBM 3101-1x keyboard.

5.2 TEN/PLUS Functions on the IBM 3101 Keyboards

Functions are accessed in one of three ways on an IBM 3101:

- 1. Touch the defined key. For example, **PICK-UP** is invoked by touching ERASE EOL/EOF.
- 2. Hold down the ALT key, then touch the defined key. For example, BEGIN-LINE is invoked by holding down ALT while touching a.
- 3. Touch the ESC key, release, then touch the defined key. For example, **QUOTE** is invoked by touching ESC, releasing it, then touching q.

To log out from the system level, hold down the ALT key while simultaneously touching d.

Function	Keystrokes
(1)	ESC then 1 on the numeric keypad
(2)	ESC then 2 on the numeric keypad
(3)	ESC then 3 on the numeric keypad
(4)	ESC then 4 on the numeric keypad
(5)	ESC then 5 on the numeric keypad
(6)	ESC then 6 on the numeric keypad
(7)	ESC then 7 on the numeric keypad
(8)	ESC then 8 on the numeric keypad
1	+ between the numeric keypad and the main keyboard
-	\rightarrow between the numeric keypad and the main keyboard
I.	$\boldsymbol{\downarrow}$ between the numeric keypad and the main keyboard
E	\leftarrow between the numeric keypad and the main keyboard
BACKSPACE	\leftarrow on the main keyboard
BEGIN-LINE	ALT a on the main keyboard

BOX-MARK	ALT b on the main keyboard
BREAK	BREAK between the numeric keypad and the main keyboard
CANCEL	ALT \mathbf{v} on the main keyboard
CENTER	ALT c on the main keyboard
DELETE	ALT 1 on the main keyboard
DELETE-CHARAC	TER
	DEL between the numeric keypad and the main keyboard ¹
DO	ALT x on the main keyboard
END-LINE	ALT z on the main keyboard
ENTER	ALT e on the main keyboard
EXECUTE	ALT e on the main keyboard
EXIT	ALT d on the main keyboard
FONT	ESC then o on the main keyboard
FORMAT	ALT f on the main keyboard
FUNCTIONS	ESC then h on the main keyboard
GO-TO	ALT g on the main keyboard
HELP	ALT 7 on the numeric keypad
HOME	ALT ← on the main keyboard
INSERT	ALT o on the main keyboard
INSERT-MODE	ESC then i on the main keyboard
LAST-ARG	ESC then y on the main keyboard
LEFT	ESC then 1 on the main keyboard
+LINE	ALT 2 on the numeric keypad

1. Do not confuse this key with DEL CHAR.

-LINE	ALT 5 on the numeric keypad
LINE-FEED	ESC then ←
LOCAL-MENU	ALT { on the main keyboard
MARGIN	ESC then m on the main keyboard
MENU	ALT ' on the main keyboard
NEXT	ALT n on the main keyboard
NEXT-WINDOW	ESC then n on the main keyboard
+PAGE	ALT 1 on the numeric keypad
-PAGE	ALT 4 on the numeric keypad
PICK-COPY	ALT ERASE EOL/EOF to the left of the main keyboard
PICK-UP	ERASE EOL/EOF to the left of the main keyboard
PREVIOUS	ALT p on the main keyboard
PRINT	ESC then p on the main keyboard
PUT-COPY	ALT ERASE EOS to the left of the main keyboard
PUT-DOWN	ERASE EOS to the left of the main keyboard
QUIT	ALT =
QUOTE	ESC then q on the main keyboard
REFRESH	ALT y on the main keyboard
REPLACE	ALT 8 on the numeric keypad
RESTORE	ALT r on the main keyboard
RETURN	ل م
RIGHT	ESC then r on the main keyboard
SAVE	ESC then s on the main keyboard
+SEARCH	ALT 3 on the numeric keypad
-SEARCH	ALT 6 on the numeric keypad

SET-TAB	ESC then \mathbf{v} on the main keyboard
TAB	→ on the main keyboard
-TAB	ALT t on the main keyboard
TEXT-MARK	ESC then t on the main keyboard
USE	ALT u on the main keyboard
WINDOW	ALT w on the main keyboard
ZOOM-IN	ALT j on the main keyboard
ZOOM-OUT	ALT k on the main keyboard

If you are using an IBM 3101-2X terminal, the following key sequences are also available:

Function	Keystrokes
ENTER	PRINT MSG to the left of the main keyboard
EXECUTE	PRINT MSG to the left of the main keyboard
PRINT	PRINT to the left of the main keyboard
CANCEL	ALT RESET to the left of the main keyboard

6. ESPRIT ESP 6310

6.1 The Esprit ESP 6310 Keyboard

Figure 6 shows the Esprit ESP 6310 keyboard layout and function locations for the TEN/PLUS system. The keyboard layout assumes that the terminal is in the Hazeltine emulation mode.



To invoke a function indicated by **E**, hold down the Func key and touch the designated key at the same time.

To invoke a function indicated by *mining*, hold down the Shift key and touch the designated key at the same time.

6.2 TEN/PLUS Functions on the Esprit ESP 6310 Keyboard

Functions are accessed in one of three ways on the Esprit ESP 6310:

- 1. Touch the defined key. For example, **HELP** is invoked by touching 5 on the numeric keypad.
- 2. Hold down the Func key, then touch the defined key. For example, **DO** is invoked by holding down the Func key and touching x.
- 3. Hold down the Shift key, then touch the defined key. For example, (1) is invoked by holding down the Shift key and touching F1.

The only exception is \overline{QUIT} , which is invoked by holding down the Ctrl key and touching q.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	Shift F1 on the top row of keys
(2)	Shift F2 on the top row of keys
(3)	Shift F3 on the top row of keys
(4)	Shift F4 on the top row of keys
(5)	Shift F5 on the top row of keys
(6)	Shift F6 on the top row of keys
(7)	Shift F7 on the top row of keys
(8)	Shift F8 on the top row of keys
Î	8 on the numeric $keypad^2$
-	6 on the numeric $keypad^2$
I	2 on the numeric $keypad^2$
—	4 on the numeric $keypad^2$

^{2.} The arrow keys on the top of the Esprit keyboard are not guaranteed to perform these functions.

BACKSPACE	Bs on the top right of the keyboard or \leftarrow on the top row of keys
BEGIN-LINE	Func 4 on the numeric keypad
BOX-MARK	Func b on the keyboard
BREAK	Break above the numeric keypad
CANCEL	- on the right of the numeric keypad
CENTER	Func c on the keyboard
DEL	Del on the right of the keyboard
DELETE	Func. on the numeric keypad
DELETE-CHARA	CTER
	. on the numeric keypad
DO	Func x on the keyboard
END-LINE	Func 6 on the numeric keypad
ENTER	Enter on the right of the numeric keypad
EXECUTE	Enter on the right of the numeric keypad
EXIT	Func d on the keyboard
FONT	Func f on the keyboard
FORMAT	F3 on the top row of keys
FUNCTIONS	Func h on the keyboard
GO-TO	1 on the numeric keypad
HELP	5 on the numeric keypad
HOME	7 on the numeric keypad
INSERT	F4 on the top row of keys
INSERT-MODE	0 on the numeric keypad
LAST-ARG	Func a on the keyboard
LEFT	Func 1 on the keyboard
+LINE	3 on the numeric keypad
-LINE	9 on the numeric keypad

LINE-FEED	LINE FEED on the keyboard
LOCAL-MENU	F2 on the top row of keys
MARGIN	Func m on the keyboard
MENU	F 1 on the top row of keys
NEXT	Func 1 on the numeric keypad
NEXT-WINDOW	Func n on the keyboard
+PAGE	Func 3 on the numeric keypad
-PAGE	Func 9 on the numeric keypad
PICK-COPY	F7 on the top row of keys
PICK-UP	F5 on the top row of keys
PREVIOUS	Func 7 on the numeric keypad
PRINT	Send above the numeric keypad
PUT-COPY	F8 on the top row of keys
PUT-DOWN	F6 on the top row of keys
QUIT	Ctrlq
REFRESH	Clear All above the numeric keypad
REFRESH	Func z on the keyboard ³
REPLACE	Func 5 on the numeric keypad
RESTORE	Func 0 on the numeric keypad
RETURN	Return on the right of the keyboard
RIGHT	Func r on the keyboard
SAVE	Func s on the keyboard
+SEARCH	Func 2 on the numeric keypad
-SEARCH	Func 8 on the numeric keypad

3. This is an alternate key sequence.

SET-TAB	Func v on the keyboard
TAB	Tab on the left of the keyboard
-TAB	Shift Tab on the left of the keyboard
TEXT-MARK	Func t on the keyboard
USE	F11 on the top row of keys
USE	Func u on the keyboard ⁴
WINDOW	Func w on the keyboard
ZOOM-IN	F9 on the top row of keys
ZOOM-OUT	F10 on the top row of keys

^{4.} This is an alternate key sequence.

7. AT&T PERSONAL COMPUTER 6300

7.1 The AT & T Personal Computer 6300 Keyboard

Figure 7 shows the AT&T Personal Computer 6300[™] keyboard layout and function locations for the TEN/PLUS system.



To invoke a function indicated by [35], hold down the Alt key and touch the designated key at the same time.

To invoke a function indicated by $\boxed{2}$, hold down the Shift key and touch the designated key at the same time.

To invoke a function indicated by _____, hold down the Ctrl key and touch the designated key at the same time.

Figure 7. AT&T Personal Computer 6300 Keyboard Layout for the TEN/PLUS System

7.2 TEN/PLUS Functions on the AT&T Personal Computer 6300 Keyboard

Functions are accessed in one of four ways on an AT&T Personal Computer 6300:

- 1. Touch the defined key. For example, **HELP** is invoked by touching 5 on the numeric keypad. (The Num Lock key must *not* be on.)
- 2. Hold down the Alt key, then touch the designated key. For example, \overline{DO} is invoked by holding down the Alt key, then touching x.
- 3. Hold down the Shift key, then touch the designated key. For example, <u>-TAB</u> is invoked by holding down the Shift key, then touching I←.
- 4. Hold down the Ctrl key, then touch the designated key. For example, **LINE-FEED** is invoked by holding down the Ctrl key, then touching j.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	Alt F1 on the function keypad
(2)	Alt F2 on the function keypad
(3)	Alt F3 on the function keypad
(4)	Alt F4 on the function keypad
(5)	Alt F5 on the function keypad
(6)	Alt F6 on the function keypad
$\overline{(7)}$	Alt F7 on the function keypad
(8)	Alt F8 on the function keypad
Ī	+ on the numeric keypad
I	+ on the numeric keypad
-	← on the numeric keypad
→	\rightarrow on the numeric keypad
BACKSPACE	← to the right of + and = and at the top of the keyboard

BEGIN-LINE	Alt \leftarrow on the numeric keypad
BOX-MARK	Alt b on the keyboard
BREAK	Scroll Lock in the upper right-hand corner of the keyboard
CANCEL	- to the right of the numeric keypad
CENTER	Alt c on the keyboard
DELETE	Alt Delete below the numeric keypad
DELETE-CHARA	CTER
	Delete below the numeric keypad
DO	Alt x on the keyboard
END-LINE	Alt \rightarrow on the numeric keypad
ENTER	+ to the right of the numeric keypad
EXECUTE	+ to the right of the numeric keypad
EXIT	Alt d on the keyboard
FONT	Alt f on the keyboard
FORMAT	F3 on the function keypad
FUNCTIONS	Alt h on the keyboard
GO-TO	End on the numeric keypad
HELP	5 on the numeric keypad
HOME	Home on the numeric keypad
INSERT	F4 on the function keypad
INSERT-MODE	Insert below the numeric keypad
LAST-ARG	Alt a on the keyboard
LEFT	Alt 1 on the keyboard
+LINE	Pg Dn on the numeric keypad
-LINE	Pg Up on the numeric keypad
LINE-FEED	Ctrl j on the keyboard
LOCAL-MENU	F2 on the function keypad

MARGIN	Alt m on the keyboard
MENU	F1 on the function keypad
NEXT	Alt End on the numeric keypad
NEXT-WINDOW	Alt n on the keyboard
+PAGE	Alt Pg Dn on the numeric keypad
-PAGE	Alt Pg Up on the numeric keypad
PICK-COPY	F7 on the function keypad
PICK-UP	F5 on the function keypad
PREVIOUS	Alt Home on the numeric keypad
PRINT	Alt Prt Sc to the right of the keyboard
PUT-COPY	F8 on the function keypad
PUT-DOWN	F6 on the function keypad
QUIT	$Ctrl \setminus$ on the keyboard
QUOTE	Alt q on the keyboard
REFRESH	Alt z on the keyboard
REPLACE	Alt 5 on the numeric keypad
RESTORE	Alt Insert below the numeric keypad
RETURN	\leftarrow to the right of the keyboard
RIGHT	Alt r on the keyboard
SAVE	Alt s on the keyboard
+SEARCH	Alt + on the numeric keypad
-SEARCH	Alt + on the numeric keypad
SET-TAB	Alt v on the keyboard
TAB	\rightarrow I to the left of the keyboard
-TAB	Shift ← to the left of the keyboard
TEXT-MARK	Alt t on the keyboard
USE	Alt u on the keyboard

WINDOW	Alt w on the keyboard
ZOOM-IN	F9 on the function keypad
ZOOM-OUT	F10 on the function keypad

8. VT220 and VT240

8.1 The VT220 and VT240 Keyboards

Figure 8 shows the $VT220^{TM}$ and $VT240^{TM}$ keyboard layout and function locations for the TEN/PLUS system.


- 1

To invoke a function indicated by _____, hold down the CTRL key and touch the designated key at the same time.

To invoke a function indicated by $\boxed{2}$, hold down the SHIFT key and touch the designated key at the same time.

Figure 8. VT220 and VT240 Keyboard Layout for the TEN/PLUS System

8.2 TEN/PLUS Functions on VT220 and VT240 Keyboards

Functions are accessed in one of three ways on VT240 and VT240 terminals:

- 1. Touch the defined key. For example, **FORMAT** is invoked by touching **PF3** above the numeric keypad.
- 2. Hold down the Ctrl key, then touch the designated key. For example, **CENTER** is invoked by holding down Ctrl, then touching the c key.
- 3. Hold down the Shift key, then touch the designated key. For example, **SAVE** is invoked by holding down Shift, then touching the F10 key.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	1 on the numeric keypad
(2)	2 on the numeric keypad
(3)	3 on the numeric keypad
(4)	4 on the numeric keypad
(5)	5 on the numeric keypad
(6)	6 on the numeric keypad
(7)	7 on the numeric keypad
(8)	8 on the numeric keypad
Î	+ to the left of the numeric keypad
I	+ to the left of the numeric keypad
-	← to the left of the numeric keypad
➡	\rightarrow to the left of the numeric keypad
BACKSPACE	Word Char in the upper right-hand corner of the keyboard
BEGIN-LINE	Shift F7 above the keyboard
BOX-MARK	Ctrl b on the keyboard

BREAK	Break above the keyboard
CANCEL	Remove to the left of the numeric keypad
CENTER	Ctrl c on the keyboard
DELETE	PF1 above the numeric keypad
DELETE-CHARAG	TER
	PF4 above the numeric keypad
DO	Do above the keyboard
END-LINE	Shift F8 above the keyboard
ENTER	Enter to the right of the numeric keypad
EXECUTE	Select to the left of the numeric keypad
EXIT	Ctrl d on the keyboard
FONT	Ctrl f on the keyboard
FORMAT	PF3 above the numeric keypad
FUNCTIONS	Shift F13 above the keyboard
GO-TO	Ctrl g on the keyboard
HELP	Help above the keyboard
HOME	Ctrl h on the keyboard
INSERT	Insert Here to the left of the numeric keypad
INSERT-MODE	Shift F12 above the keyboard
LAST-ARG	Ctrl 1 on the keyboard
LEFT	F7 above the keyboard
+LINE	F10 above the keyboard
-LINE	F9 above the keyboard
LINE-FEED	Ctrl j on the keyboard
LOCAL-MENU	9 on the numeric keypad
MARGIN	Shift F11 above the keyboard
MENU	F11 above the keyboard

NEXT	, on the numeric keypad
NEXT-WINDOW	Ctrl n on the keyboard
+PAGE	Next Screen to the left of the numeric keypad
-PAGE	Prev Screen to the left of the numeric keypad
PICK-COPY	F 19 above the keyboard
PICK-UP	F17 above the keyboard
PREVIOUS	- on the numeric keypad
PRINT	F12 above the keyboard
PUT-COPY	F20 above the keyboard
PUT-DOWN	F18 above the keyboard
QUIT	$Ctrl \setminus$ on the keyboard
QUOTE	Shift F9 above the keyboard
REFRESH	Ctrl r on the keyboard
REPLACE	F13 above the keyboard
RESTORE	PF2 above the numeric keypad
RETURN	Return on the right of the keyboard
RIGHT	F8 above the keyboard
SAVE	Shift F10 above the keyboard
+SEARCH	Find to the left of the numeric keypad
-SEARCH	F6 above the keyboard
SET-TAB	Ctrl v on the keyboard
TAB	Tab on the left of the keyboard
-TAB	Shift F6 above the keyboard
TEXT-MARK	Ctrl t on the keyboard
USE	F14 above the keyboard
WINDOW	Ctrl w on the keyboard

ZOOM-IN	0 on the numeric keypad
ZOOM-OUT	. on the numeric keypad

9. AT&T 5425 and AT&T 4425

9.1 The AT&T 5425 and AT&T 4425 Keyboards

Figure 9 shows the AT&T 5425 and AT&T 4425 keyboard layout and function locations for the TEN/PLUS system.



To invoke TEN/PLUS functions on the left keypad, the left keypad must be in Alternate Keypad mode.

LOCAL

PUT

PUT COPY

ZOOM

444

TAB

CTRL

SINT

REFRESH

CAPS LOCK

MENU

PICK

PICK

ZOOM IN

FORMAT INSERT

To invoke a function indicated by [____], hold down the CTRL key and touch the designated key at the same time.

To invoke a function indicated by ..., touch the ESC key, release it, then touch the designated key.

To invoke a function indicated by _____, hold down the SHIFT key and touch the designated key at the same time.

Figure 9. AT&T 5425 and AT&T 4425 Keyboard Layout for the TEN/PLUS System

9.2 TEN/PLUS Functions on the AT&T 5425 and AT&T 4425 Keyboards

Functions are accessed in one of four ways on AT&T 5424 and AT&T 4425 terminals:

- 1. Touch the defined key. For example, **FORMAT** is invoked by touching F3 on the function keypad.
- 2. Hold down the CTRL key, then touch the designated key. For example, **BOX-MARK** is invoked by holding down CTRL, then touching the b key.
- 3. Touch the ESC key, release it, then touch the designated key. For example, \boxed{SAVE} is invoked by touching ESC, releasing it, then touching the s key.
- 4. Hold down the SHIFT key, then touch the designated key. For example, <u>-TAB</u> is invoked by holding down SHIFT, then touching the TAB key.

Note that to invoke TEN/PLUS functions on the left keypad, the left keypad must be in Alternate Keypad mode.

To log out from the system level, hold down the CTRL key while simultaneously touching d.

Function	Keystrokes
	ESC then 1 on the main keyboard
(2)	ESC then 2 on the main keyboard
(3)	ESC then 3 on the main keyboard
(4)	ESC then 4 on the main keyboard
(5)	ESC then 5 on the main keyboard
(6)	ESC then 6 on the main keyboard
(7)	ESC then 7 on the main keyboard
(8)	ESC then 8 on the main keyboard
Î	 above the right keypad or 8 on the right keypad
I	 above the right keypad or 2 on the right keypad

F	 ← above the right keypad or 4 on the right keypad
—	→ above the right keypad or 6 on the right keypad
BACKSPACE	BACKSPACE on the keyboard
BEGIN-LINE	ESC then 4 on the right keypad
BOX-MARK	CTRL b on the keyboard
BREAK	BREAK on the keyboard
CANCEL	, on the right keypad
CENTER	ESC then c on the keyboard
DELETE	DELETE on the main keyboard
DELETE-CHARA	CTER
	. on the right keypad ⁵
DO	ESC then \mathbf{x} on the keyboard
END-LINE	ESC then 6 on the right keypad
ENTER	ENTER on the right keypad
EXECUTE	ENTER on the right keypad
EXIT	ESC then d on the keyboard
FONT	ESC then f on the keyboard
FORMAT	F3 on the function keypad
FUNCTIONS	ESC then h on the keyboard
GO-TO	1 on the right keypad
HELP	5 on the right keypad
HOME	7 on the right keypad ⁶

^{5.} Do not confuse this key with DEL CHAR on the left keypad.

^{6.} Do not confuse this key with HOME on the left keypad.

INSERT	F4 on the function keypad
INSERT-MODE	0 on the right keypad
LAST-ARG	ESC then a on the keyboard
LEFT	ESC then 1 on the keyboard
+LINE	3 on the right keypad
-LINE	9 on the right keypad
LINE-FEED	LINE FEED on the keyboard
LOCAL-MENU	F2 on the function keypad
MARGIN	ESC then m on the keyboard
MENU	F1 on the function $keypad^7$
NEXT	ESC then 1 on the right keypad
NEXT-WINDOW	ESC then n on the keyboard
+PAGE	ESC then 3 on the right keypad
-PAGE	ESC then 9 on the right keypad
PICK-COPY	F7 on the function keypad
PICK-UP	F5 on the function keypad
PREVIOUS	ESC then 7 on the right keypad
PRINT	ESC then PRINT on the right keypad ⁸
PUT-COPY	F8 on the function keypad
PUT-DOWN	F6 on the function keypad
QUIT	$\mathtt{CTRL} \setminus$ on the keyboard
QUOTE	ESC then q on the keyboard
REFRESH	CTRL z on the keyboard

^{7.} Do not confuse this key with MENU above the keyboard.

^{8.} Do not confuse this key with **PRINT** above the keyboard.

REPLACE	ESC then 5 on the right keypad
RESTORE	ESC then 0 on the right keypad
RETURN	RETURN on the right of the keyboard
RIGHT	ESC then r on the keyboard
SAVE	ESC then s on the keyboard
+SEARCH	ESC then 2 on the right keypad
-SEARCH	ESC then 8 on the right keypad
SET-TAB	ESC then \mathbf{v} on the keyboard
TAB	TAB on the left of the keyboard
-TAB	SHIFT TAB on the left of the keyboard
TEXT-MARK	CTRL t on the keyboard
USE	ESC then u on the keyboard
WINDOW	ESC then w on the keyboard
ZOOM-IN	F9 on the function keypad
ZOOM-OUT	F10 on the function keypad

10. AT 386

10.1 The AT 386 Keyboard

Figure 10 shows the AT[®] 386 keyboard layout and function locations for the TEN/PLUS system.



in a second

To invoke a function indicated by _____, hold down the Alt key and touch the designated key at the same time.

To invoke a function indicated by 2000, hold down the Shift key and touch the designated key at the same time.

To invoke a function indicated by _____, hold down the Ctrl key and touch the designated key at the same time.

Figure 10. AT 386 Keyboard Layout for the TEN/PLUS System

10.2 TEN/PLUS Functions on the AT 386 Keyboard

Functions are accessed in one of five ways on the AT 386 terminal:

- 1. Touch the defined key. For example, **FORMAT** is invoked by touching F3 on the function keypad.
- Hold down the Alt key, then touch the designated key. For example, BOX-MARK is invoked by holding down Alt, then touching the b key.
- 3. Hold down the Shift key, then touch the designated key. For example, <u>-TAB</u> is invoked by holding down Shift, then touching the TAB key.
- 4. Hold down the Ctrl key, then touch the designated key. For example, **LINE-FEED** is invoked by holding down Ctrl, then touching j.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	Alt F1 on the function keypad
(2)	Alt F2 on the function keypad
(3)	Alt F3 on the function keypad
(4)	Alt F4 on the function keypad
(5)	Alt F5 on the function keypad
(6)	Alt F6 on the function keypad
(7)	Alt F7 on the function keypad
(8)	Alt F8 on the function keypad
Î	+ on the numeric keypad
I	+ on the numeric keypad
÷	← on the numeric keypad
-	\rightarrow on the numeric keypad
BACKSPACE	\leftarrow to the top and right on the main keyboard
BEGIN-LINE	Alt 4 on the numeric keypad

BOX-MARK	Alt b on the keyboard
BREAK	Scroll Lock at the top of the numeric keypad
CANCEL	- to the right of the numeric keypad
CENTER	Alt c on the keyboard
DELETE	Alt Del on the numeric keypad
DELETE-CHARAC	TER
	Del on the numeric keypad
DO	Alt x on the keyboard
END-LINE	Alt 6 on the numeric keypad
ENTER	+ to the right of the numeric keypad ⁹
EXECUTE	+ to the right of the numeric keypad
EXIT	Alt d on the keyboard
FONT	Alt f on the keyboard
FORMAT	F3 on the function keypad
FUNCTIONS	Alt h on the keyboard
GO-TO	1 on the numeric keypad
HELP	5 on the numeric keypad
HOME	7 on the numeric keypad
INSERT	F4 on the function keypad
INSERT-MODE	Ins on the numeric keypad
LAST-ARG	Alt a on the keyboard
LEFT	Alt 1 on the keyboard
+LINE	3 on the numeric keypad
-LINE	9 on the numeric keypad

9. Do not confuse this key with Enter on the right of the keyboard.

LINE-FEED	Ctrl j on the keyboard
LOCAL-MENU	F2 on the function keypad
MARGIN	Alt m on the keyboard
MENU	F1 on the function keypad
NEXT	Alt 1 on the numeric keypad
NEXT-WINDOW	Alt n on the keyboard
+PAGE	Alt 3 on the numeric keypad
-PAGE	Alt 9 on the numeric keypad
PICK-COPY	F7 on the function keypad
PICK-UP	F5 on the function keypad
PREVIOUS	Alt 7 on the numeric keypad
PRINT	Alt * to the right of the numeric keypad
PUT-COPY	F8 on the function keypad
PUT-DOWN	F6 on the function keypad
QUIT	$Ctrl \setminus$ on the keyboard
QUOTE	Alt q on the keyboard
REFRESH	Alt z on the keyboard
REPLACE	Alt 5 on the numeric keypad
RESTORE	Alt Ins on the numeric keypad
RETURN	Enter on the right of the keyboard
RIGHT	Alt r on the keyboard
SAVE	Alt s on the keyboard
+SEARCH	Alt 2 on the numeric keypad
-SEARCH	Alt 8 on the numeric keypad
SET-TAB	Alt v on the keyboard
TAB	$\leftarrow \rightarrow$ on the left of the keyboard
-TAB	Shift $\leftarrow \rightarrow$ on the left of the keyboard

TEXT-MARK	Alt t on the keyboard
USE	Alt u on the keyboard
WINDOW	Alt w on the keyboard
ZOOM-IN	F9 on the function keypad
ZOOM-OUT	F10 on the function keypad

11. COMPAQ DESKPRO 386

11.1 The COMPAQ DESKPRO 386 Keyboard

Figure 11 shows the COMPAQ[®] DESKPRO 386^{TM} keyboard layout and function locations for the TEN/PLUS system.



To invoke a function indicated by [3], hold down the Alt key and touch the designated key at the same time.

To invoke a function indicated by $\boxed{2}$, hold down the Shift key and touch the designated key at the same time.

To invoke a function indicated by , hold down the Ctrl key and touch the designated key at the same time.

Figure 11. COMPAQ DESKPRO 386 Keyboard Layout for the TEN/PLUS System

11.2 TEN/PLUS Functions on the COMPAQ DESKPRO 386 Keyboard

Functions are accessed in one of five ways on the COMPAQ DESKPRO 386 terminal:

- 1. Touch the defined key. For example, **FORMAT** is invoked by touching F3 on the top row of keys.
- 2. Hold down the Alt key, then touch the designated key. For example, **BOX-MARK** is invoked by holding down Alt, then touching the b key.
- 3. Hold down the Shift key, then touch the designated key. For example, -TAB is invoked by holding down Shift, then touching the TAB key.
- 4. Hold down the Ctrl key, then touch the designated key. For example, **LINE-FEED** is invoked by holding down Ctrl, then touching j.

To log out from the system level, hold down the Ctrl key while simultaneously touching d.

Function	Keystrokes
(1)	Alt F1 on the top row of keys
(2)	Alt F2 on the top row of keys
(3)	Alt F3 on the top row of keys
(4)	Alt F4 on the top row of keys
(5)	Alt F5 on the top row of keys
(6)	Alt F6 on the top row of keys
(7)	Alt F7 on the top row of keys
(8)	Alt F8 on the top row of keys
Ĩ	+ to the left of the numeric keypad or on the numeric keypad
I	+ to the left of the numeric keypad or on the numeric keypad
E	← to the left of the numeric keypad or on the numeric keypad
-	\rightarrow to the left of the numeric keypad or on the numeric keypad

BACKSPACE	CKSPACE ← Backspace on the main keyboard				
BEGIN-LINE	Alt 4 on the numeric keypad				
BOX-MARK	Alt b on the main keyboard				
BREAK	Scroll Lock to the right on the top row of keys ¹⁰				
CANCEL	- in the upper right corner of the numeric keypad				
CENTER	Alt c on the main keyboard				
DELETE	Alt Del on the numeric keypad ¹¹				
DELETE-CHARA	CTER				
	Del on the numeric keypad				
DO	Alt \mathbf{x} on the main keyboard				
END-LINE	Alt 6 on the numeric keypad				
ENTER	+ to the right of the numeric keypad ¹²				
EXECUTE	+ to the right of the numeric keypad				
EXIT	Alt d on the main keyboard				
FONT	Alt f on the main keyboard				
FORMAT	F3 on the top row of keys				
FUNCTIONS	Alt h on the main keyboard				
GO-TO	1 on the numeric keypad				
HELP	5 on the numeric keypad				
HOME	Home to the left of the numeric keypad or 7 on the numeric keypad				
INSERT	F4 on the top row of keys ¹³				

- 10. Do not confuse this key with Break to the right on the top row of keys.
- 11. Do not confuse this key with Delete to the left of the numeric keypad.
- 12. Do not confuse this key with Enter to the lower right of the numeric keypad or with Enter on the main keyboard.
- 13. Do not confuse this key with Insert to the left of the numeric keypad or with Ins on the numeric keypad.

INSERT-MODE	Ins on the numeric keypad
LAST-ARG	Alt a on the main keyboard
LEFT	Alt 1 on the main keyboard
+LINE	3 on the numeric keypad
-LINE	9 on the numeric keypad
LINE-FEED	Ctrl j on the main keyboard
LOCAL-MENU	F2 on the top row of keys
MARGIN	Alt m on the main keyboard
MENU	F1 on the top row of keys
NEXT	Alt 1 on the numeric keypad
NEXT-WINDOW	Alt n on the main keyboard
+PAGE	Alt 3 on the numeric keypad ¹⁴
-PAGE	Alt 9 on the numeric keypad ¹⁵
PICK-COPY	F7 on the top row of keys
PICK-UP	F5 on the top row of keys
PREVIOUS	Alt 7 on the numeric keypad
PRINT	Alt $*$ at the top of the numeric keypad
PUT-COPY	F8 on the top row of keys
PUT-DOWN	F6 on the top row of keys
QUIT	$Ctrl \setminus$ on the main keyboard
QUOTE	Alt q on the main keyboard
REFRESH	Alt z on the main keyboard
REPLACE	Alt 5 on the numeric keypad

^{14.} Do not confuse this key with Page Down to the left of the numeric keypad.

^{15.} Do not confuse this key with Page Up to the left of the numeric keypad.

RESTORE	RE Alt Ins on the numeric keypad		
RETURN	Enter on the right of the main keyboard or to the right of the numeric keypad		
RIGHT	Alt r on the main keyboard		
SAVE	Alt s on the main keyboard		
+SEARCH	Alt 2 on the numeric keypad		
-SEARCH	Alt 8 on the numeric keypad		
SET-TAB	Alt v on the main keyboard		
TAB	Tab \rightarrow on the left of the main keyboard		
-TAB	Shift Tab ← on the left of the main keyboard		
TEXT-MARK	Alt t on the main keyboard		
USE	Alt u on the main keyboard		
WINDOW	Alt w on the main keyboard		
ZOOM-IN	F9 on the top row of keys		
ZOOM-OUT	F10 on the top row of keys		

Appendix: TERMINAL DESCRIPTION FILES

This appendix contains technical information about the terminal description files located in the "termcaps" database. It is included as a reference for system programmers; it is not necessary for you to read this appendix if you are not a system programmer.

The INed[®] editor is designed to operate on most ASCII video (VDT or CRT) terminals and on a number of personal computers. The standard version of the editor uses data in the "termcaps" terminal description database to run the terminal. Many terminals manufactured have been described in this database. (Note that this appendix applies only to those terminals that are used with the standard version of the editor. Skip this appendix if your computer or terminal, e.g., the INtext terminal, does not use this version of the editor.)

The termcap database is located in the file /etc/termcap. The editor does not use this file directly, but instead uses the file terms.bin. This file contains all the information in the termcap database, as well as information about where the TEN/PLUS function keys are located on the keyboard. All of this information is stored in a binary form for use by the editor.

The file trm is an editable version of terms.bin. You can compose it directly or use the program *tconvert*(1) to make trm from /etc/termcap. If you produce trm from /etc/termcap, the keyboard definition is taken from record 0 of \$SYS/termcap/def.trm. Figure 12 shows the relationship between these files. All files other than /etc/termcap are located in the directory \$SYS/termcap.



Figure 12. Relationship of Terminal Description Files

Typical usage is to make trm from /etc/termcap, then modify the keyboard mapping for some terminals to make use of special terminal keyboard features, such as extra keys.

The file def.trm is a structured file that describes all supported terminals. To see how a terminal is described, access def.trm, move the cursor to the appropriate line in the Output Sequences column, and **ZOOM-IN**.

The left-hand column lists the names of output sequences. The middle column gives a brief description of what the output sequence does. The right-hand column gives the codes implementing the sequence for the terminal. The sequence names and the representation for the codes are taken directly from the notation used in the termcap database.

The input sequences are shown when you **ZOOM-IN** to a terminal description with the cursor in the Input Sequences column. The notation for the input and output code sequences is similar to that used in /etc/termcap.

Before entering the editor, set the environment variable TERM to the type of the appropriate terminal. To avoid setting the TERM variable at each login, set it in an individual profile file in each user's login directory (e.g., \$HOME/.profile).





TEN/PLUS Profiles

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TEN/PLUS Profiles

1. INTRODUCTION

This document is intended as a training guide for those who wish to learn how to use TEN/PLUS® profiles to customize their TEN/PLUS environment. It is intended for those who have already used the TEN/PLUS system to create, edit, and manage text files. Readers of this document should refer to the "TEN/PLUS Primer," the "TEN/PLUS Tutorial," and the "TEN/PLUS Reference Manual" in this guide, as appropriate to their needs.

1.1 Accessing TEN/PLUS Functions

Accessing TEN/PLUS functions requires different keystroke sequences on different keyboards. Refer to the appropriate section of "TEN/PLUS Keyboard Information" for an alphabetic listing of the TEN/PLUS functions and the keystroke sequences required for your keyboard.

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2. THE EDITOR PROFILE

The editor profile file, editorprf, is used to customize the editor to suit the needs of individual users. It is used to override the default specifications in the standard editor profile intended for beginning users. The editor profile is used to specify:

- What the menu for MENU will look like.
- What the menu for **HELP** will look like.
- Which files the editor should watch.
- Which directories the editor should search to locate forms, helpers, messages, and forms language scripts.

On versions of the TEN/PLUS system that support color displays, an option is available that allows users to specify the colors used for text and background.

2.1 Creating Your Editor Profile

To create your editor profile file, use <u>MENU</u> and select the option Edit your editor profile. Popup boxes will appear, indicating that the system is creating a profiles directory (if one does not already exist) and a standard editor profile file, editorprf, in that directory. After a brief pause, the top level of the editorprf file will appear on the display.

2.2 The Top Level of the Editor Profile

The top level of the editor profile looks like this:

```
Editor Profile File

This file allows you to modify the behavior of the editor to suit your

preferences. Put the cursor on the line of interest and ZOOM-IN to specify

your choice of options.

MENU Options

HELP Options

Files the Editor Should Watch

Editor Search Paths
```

Additional profile options may be present, depending upon the configuration of your system. You can explore the profile by using **ZOOM-IN**, **ZOOM-OUT**, and the cursor-positioning functions.

2

2.3 MENU Options

If you **ZOOM-IN** to the first option, MENU Options, you will see a screen that looks like this:

F	MENU	Option	8
Description shown in menu		Type	Name of file or program
Show home directory Execute UNIX shell commands Run a shell command in a box Show your profiles directory Edit your editor profile Housekeep Display history of current file		file screen popbox file file popbox helper	<pre>\$HOME echo "Touch CNTL-D to continue ed "<u>Shell command:</u>" \$HOME/profiles \$HOME/profiles/editorprf housekeep history</pre>

(Note that you can use **RIGHT** to see additional text in the Name of file or program field.)

This screen is used to determine what the New Task Menu, which is displayed by <u>MENU</u>, will look like. Each line corresponds to one line of the New Task Menu. Sample text menu entries can be found by using <u>HELP</u> and selecting the Suggestions for Your MENU option. If you do not know how to set up a menu entry, you should look at the suggestions to get some ideas on how it is usually done. The best way to get started is to use <u>PICK-COPY</u> to pick up some of the lines, and then use <u>PUT-DOWN</u> to put them in your editor profile. If that is all you want to do for now, you can proceed to §2.4.

The first field on the MENU Options screen, Description shown in menu, contains the text that will appear in the New Task Menu. The next field, Type, determines what kind of task is to be performed when this option is selected. Possible Type entries are:

form: change to a new form file: change to a new file helper: change to a new helper screen:

clear the screen and run a program

popbox:

run a program and put its output in a popup box

The last field on the MENU Options screen, Name of file or program, contains the name of the file, helper, or program. This field can contain shell variables and user prompts. A shell variable is denoted by typing a dollar sign (\$) followed by the variable name. The editor also understands these special variable names:

\$FORM:

the name of the current form

\$FILE:

the name of the file you are editing

\$ALTFILE:

the name of the alternate file

\$HELPER:

the name of the current helper

\$SYS:

the directory where editor helpers, forms, and help files are installed

\$LANG:

the directory in which a foreign language version of forms, help messages, and scripts can be found

If the Type is screen or popbox, the last field is passed to the shell for processing. This means that the command can actually be a pipeline—several programs separated by the pipe character (|). It can also specify redirection of standard input and/or standard output (>, >>, <). Note, however, that if the Type is popbox, the last field cannot contain an interactive command (one requiring additional input from the user). If an interactive command is accidentally provided, try using **BREAK** or **QUIT** to interrupt the process when the option is selected.

User prompts are strings of underlined characters. When the editor processes a menu item, it puts each prompt into a popup box. Before executing the requested action, the editor replaces the prompt with whatever the user types into the box. If the user uses \boxed{CANCEL} , the editor returns to normal editing. For example, assume that your system has a program called phone that takes one argument, the name to look up in a phone directory. The menu line to run this program might look like this:

Look up a phone number | popbox | phone Enter name:

When you select this item, the editor displays this popup box:

4
Enter name:

If you type in Bob and **EXECUTE**, the editor runs the program phone Bob. Note that the prompt contains an underlined space character. This is used to display a multiword prompt. You can also display several prompts by separating them with nonunderlined space characters; for example, command <u>arg1 arg2 arg3 last_arg</u>.

If you **ZOOM-IN** to the first line on the MENU Options screen, the editor displays the next level of detail:

Details of	E MENU (Option
Description shown in menu	Туре	Name of file or program
Show home directory file \$HOME		
Flags: any non-space character means	true	
Sync and reopen file Save all files		

The Sync and reopen file box is used when a menu item alters a file in any way. An entry in this box causes the system to save the file, run the program, and then reopen the file. For example, to remove the history from the current file, you could use the rmhist(1) command on the current file and type any character in the Sync and reopen file box:

Details o	f MENU	Option
Description shown in menu	Туре	Name of file or program
Remove history from current file	popbox	rmhist \$FILE
Flags: any non-space character means	true	
x Sync and reopen file	x Save	all files
·		

The Save all files box is used for saving all ASCII text files. The editor maintains special files that track the changes made to ASCII text files and, on exiting, converts these special files back to regular ASCII files. If you are running the shell using a menu item with the Type field set to screen, you should set this flag by typing any character into the

Save all files box. This slows down the processing of the menu item (if you have edited any ASCII text files), but it is important when using the shell. The Save all files flag ensures that if you run another program (such as grep(1)) from the shell on a text file that you have edited, the latest version of this file is processed.

2.4 HELP Options

To access the HELP Options part of your profile, **ZOOM-OUT** to the top level of your profile, move the cursor down to HELP Options, then **ZOOM-IN**:

HELP Options		
Description shown in menu	Type	Name of file or program
Alphabetic List of Editor Commands	file	\$SYS/help/e.cmds
How do I ?	file	\$SYS/help/e.howtos
How to Customize the Editing System	file	\$SYS/help/editorprf.hdq
Suggestions for Your MENU	file	\$SYS/help/emenu
Suggestions for Print Menu	file	\$SYS/help/prthelp
Keyboard Layouts	file	\$SYS/help/keys.map

The HELP Options screen is used to determine what the menu for <u>HELP</u> will look like. The first field, Description shown in menu, contains the description that appears in the menu. The second field, Type, is usually file; it tells the editor to switch to the corresponding file when this item is selected. The third field, Name of file or program, contains the name of the help file to be displayed.

To add a **HELP** menu option, create a help file and add the appropriate line on this screen. The help file need not be installed in **\$SYS/help**.

2.5 Telling the Editor to Watch Specific Files

The editor can be set up to watch for changes to specific files. The editor is usually set up to watch either mail or reminder files for new mail or new reminders, but you can have the editor watch any file. When the editor notices that one of these files has changed, it prints a message in a popup box.

To specify the files to be watched, **ZOOM-IN** to the Files the Editor Should Watch option at the top level of your editor profile:

	Files the Editor Should Wate	h
Name of file	Message to display	Program to run
\$HOME/.reminder		\$SYS/bin/showrem -d

The first field, Name of file, should contain the name of the file the editor is to watch. This file name can contain shell variables (§2.3). The second field, Message to display, should contain the message the editor will display when the file changes. The third field, Program to run, should contain the name of the program to run when the file changes.

An entry must be made in the Name of file field and at least one of the other fields. If there is an entry in the Message to display field and not in the Program to run field, the indicated message appears in a popup box when the editor notices that the file has changed. If there is an entry in the Program to run field and not in the Message to display field, the editor runs the indicated program and prints the output from the program in a popup box. If there is an entry in both fields, first the indicated message appears in a popup box, then the editor runs the indicated program. When the program completes, the original popup box.

Here is a sample watch files screen with two sample entries:

Files the Editor Should Watch		
Name of file	Message to display	Program to run
\$HOME/.smail \$HOME/.reminder	You have new mail	\$SYS/bin/newmail \$HOME/.s \$SYS/bin/showrem -d

The first sample entry monitors your incoming mail, if your incoming mail is put in \$HOME/.smail. When the editor discovers that the file has changed, the editor displays the message You have new mail in a popup box, then runs the newmail program. The newmail program displays the header lines of the new mail in a popup box. You can use *mail* or the mail helper to read your new messages.

The second sample entry monitors the reminder file. When the editor discovers that the file \$HOME/.reminder has changed, the showrem program runs and displays the contents of the \$HOME/.reminder file in a popup box.

2.6 Editor Search Paths

The Editor Search Paths option at the top level of the editor profile is used for specifying the search paths that the editor uses to find forms, helpers, messages, and scripts. If you **ZOOM-IN** to this option, you will see:

Search Paths
places the editor should look for forms should be the name of a directory; the bottom.
Helpers
\$SYS/helpers
Scripts
\$SYS/\$LANG/scripts

To make your own forms directory, insert a line at the top of the Forms field and type a directory name; for example, \$HOME/forms. This tells the editor to look for a directory named forms under your login directory before it checks the standard system directory. You can then put your own forms (or personalized versions of the standard editor forms) in your own forms directory, and the editor will automatically use these. This procedure also is used to make your own helper, message, and script directories.

2.7 Color Selections

The Color Selections option appears only on versions of the TEN/PLUS system that support color displays:

8

Editor Profile File

This file allows you to modify the behavior of the editor to suit your preferences. Put the cursor on the line of interest and ZOOM-IN to specify your choice of options.

MENU Options HELP Options Files the Editor Should Watch Editor Search Paths Color Selections

The Color Selections option allows you to specify monitor foreground and background colors. If you **ZOOM-IN** to this option you will see:

Color Usage Please select colors for normal text, background for normal text, underlined text, and background for underlined text. The possible colors are: black blue brown cyan green magenta red white To make a color intense, put any character in the box labeled "Intense?". Intense? Color Normal text (default white): white Normal text background (default black): black Underlined text (default blue): hlue Underlined text background (default white): white

The Color Selections option allows you to select colors for normal and underlined text, and background colors for normal and underlined text. You can also specify whether these colors should be intense. The colors from which you can select are listed on the Color Selections display screen.

If you do not edit the Color Selections option, the defaults (listed on the display) are used: normal text is intense white on a black background, and underlined text is blue on a white background.

To select a color for text or background, type the name of a color from the list into the Color field adjacent to the appropriate description (e.g., Normal text (background white):). To select the intense variation of that color, type a character into the Intense? field adjacent to the description. To select an intense variation of the default, leave the Color field blank and type a character into the Intense? field adjacent to the appropriate description.

If you are using a monochrome monitor on a version of the TEN/PLUS system that supports color displays, this option will appear. Although you will be able to select colors using this option, this may have no effect on text displayed on the monochrome display. Selecting colors while using a monochrome monitor may produce variations in shading or underlining.

To implement the new colors, use **SAVE**.

3. THE PRINT PROFILE

The standard Print Menu includes four options:

```
Print on default printer
Print (ask for options)
Print to file (overwrite)
Print to file (append)
```

The Print Helper, invoked by using **PRINT**, creates a temporary file that represents a combination of the text on the screen and the form through which that text is viewed. **PRINT** also utilizes the data in the print profile to generate a menu of options describing how the temporary file is processed. Typically, the temporary file is stored in another file, for subsequent disposition, or is output to a printing device.

You can include additional menu options by modifying the print profile file, printprf, located in the profiles directory. Sample print profile entries can be found by selecting the option Suggestions for Print Menu option from the Help Menu.

3.1 Creating Your Print Profile

To create your print profile file, use **ENTER \$HOME/profiles/printprf USE**, and select the option to create a structured file. If a profiles directory does not already exist in your home directory, one will be created. After a brief pause, the top level of the print profile will appear on the display:

```
      Print Options

      ZOOM-IN to see more detail about command.

      Description shown in menu
      Command

      Print on default printer
      ! print -tl=$FILE
      Print (ask for options)
      ! print -tl=$FILE
      Print options:

      Print to file (overwrite)
      >
      >
      >

      Print to file (append)
      >>
      >>
```

Note that your system may utilize a different print command. Check with your system administrator or refer to your user's manual for the correct command to insert in your menu.

3.2 The Top Level of the Print Profile

The top level of the print profile has two fields: Description shown in menu and Command. The Description shown in menu field is used to enter the description that displays on the menu when **PRINT** is used. The Command field is used to enter print output instructions. Four types of entries can be entered in the Command field:

UNIX[®] Commands Pipe Commands (|) Redirect and Overwrite Commands (>) Redirect and Append Commands (>>)

The first column in the Command field can contain a pipe symbol $(\)$, a redirect symbol (> or >>), or a UNIX command. If the first column contains a pipe symbol, the output is piped through the specified program. If the first column contains a redirect symbol, the output is redirected to the specified file. If the first column contains a UNIX command, the specified command is executed.

If the Command field is left blank, the Print Helper prompts for a UNIX command. If a file or program name is not entered after a pipe or redirect symbol, the Print Helper prompts for the missing information.

The output instructions entered in the Command field can contain shell variables and user prompts. Shell variables are denoted by typing a dollar sign followed by the variable name. The Print Helper understands all editor environment variable names, and two additional variable names that are specific to the Print Helper:

\$PRTCMD:

the expanded command (used only in the Description for popbox)

\$PRTFILE:

the name of the temporary print output file (useful in shell commands)

User prompts are strings of underlined characters. When the editor processes a command with a prompt, it displays the prompt in a popup box. The editor replaces the prompt with whatever the user types into the box before executing the command. If the command is not entered in full, the editor prompts for the command input required. **CANCEL** can be used to remove the popup box and cancel the operation of the command.

The first command in the default print profile displayed above pipes the **PRINT** output through print(1) and the title on the header page is set to the name of the file currently being edited (**\$FILE**). The second command pipes the **PRINT** output through print, sets the title on the header page to the name of the file currently being edited (**\$FILE**), then prompts for print options. The third command prompts for a file name and overwrites the specified file with the output. If the redirection symbols are followed by a file name, the system automatically prints to the specified

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file. The fourth command prompts for a file name and appends the output to the specified file. You can explore any of the options listed at the top level of the print profile by using **ZOOM-IN**.

3.3 Print Option Details

When you **ZOOM-IN** to an option listed at the top level of the print profile, the details for the option appear on the display. For example, when you **ZOOM-IN** to the first option, Print on default printer, the screen display looks like this:

Details of	Print Option
Description shown in menu	Command
Print on default printer	<pre>i print -tl=\$FILE</pre>
Description for	r popbox
Printing on the default printer	
Flags: any non-space character means	true
Save all ASCII files	rint graphics box (use w/ printer filter)
Clear screen and run command D:	isplay all output of command

The first two fields, Description shown in menu and Command, display the detail from the top level of the profile. The Description for popbox field is used to enter the text that will appear in a popbox when the command is executing; it can contain any of the editor environment variables, \$FILE, \$PRTFILE, or \$PRTCMD (which expands to the command entered in the Command field). The Save all ASCII files flag should be set if all ASCII files opened during the editing session are to be saved before the command is executed. (If this flag is not set, an attempt to print an ASCII file may not print the most recent version.) The Clear screen and run command flag should be set if the screen should be cleared before the command is executed. The Print graphics box flag should be set if the **PRINT** output is to be run through a filter that will convert graphic characters to characters that the printer understands. Usually, [PRINT] converts the graphics box characters to + and - characters. If this flag is set, this conversion is not performed. The Display all output of command flag should be set if the command output should appear in a popup box.

3.4 Changing Your Print Profile

You can add new options to your Print Menu by editing your printprf file. Sample print profile entries can be found by using **HELP** and selecting the Suggestions for Print Menu option from the menu. You should examine these suggestions and use **PICK-COPY** and **PUT-DOWN** to move the desired options to your own printprf file.

4. THE FILE MANAGER PROFILE

The file manager profile file, indexprf, allows you to customize your directory listing. It is used to specify the directory with which the index file should be synchronized, the directory for deleted files, and the files that should be hidden.

4.1 Creating Your File Manager Profile

To create your file manager profile file, use **ENTER \$HOME/profiles/indexprf USE**, and select the option to create a structured file. If a profiles directory does not already exist in your home directory, one will be created. After a brief pause, the top level of the index profile will appear on the display:

```
Directory Helper Options
Synchronize the index file with the directory: x
Directory for deleted files: $HOME/.putdir
*.bak
Files
to be
hidden
.*
```

4.2 The Top Level of the File Manager Profile

The first option in the top level of the file manager profile allows you to specify whether the directory listing will be updated (that is, synchronized with the actual state of the system) whenever you create files through the **ENTER** *filename* **USE** sequence. The x in the first field specifies that synchronization will take place; this is the default. Unless there is an x in this field, synchronization will not take place. (Note that any other character will not cause synchronization to take place.) In that case, files created through the **ENTER** filename **USE** sequence will not show in the manually directory listing until vou list them by selecting Display visible files from the **LOCAL-MENU**.

The second option specifies the directory in which the system is to place your deleted files and directories. The default is \$HOME/.putdir. You can change this default by replacing it with a new directory name. For example, you might decide to place deleted files and directories in a directory called removed in your home directory. To do this, type the path name \$HOME/removed over the existing path name in this option. The third option specifies files to be hidden. By default, all files beginning with a dot (.) or ending in .bak, .old, or .index will be hidden. The asterisk (*) you see in the display is used as a wild card, which means that it is equivalent to any character or characters. Files ending in .bak are created by the system each time you complete an editing session on an ASCII file. The previous version of each of these files is saved under a new name, created by truncating the file name as necessary and appending .bak. Any previous .bak file is overwritten. A .index file is a structured file created and used by the File Manager to edit a directory. You cannot access a .index file directly.

You can specify which files are to be hidden in your directory listing by modifying the list of file names contained in this option. However, you can always see a listing of all files by using **LOCAL-MENU** and choosing option (2) Display all files.

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addrem - appends a reminder to the reminder file

SYNOPSIS

addrem string

DESCRIPTION

Addrem appends the string argument to the .reminder file in the current \$HOME directory. The string argument is required. Addrem also appends a newline character to the file following the string. If the \$HOME/.reminder file does not exist, addrem attempts to create it. Addrem uses a lock file to avoid synchronization problems that may occur while appending the reminder to the \$HOME/.reminder file (see Llock and Unlock in libutil(3a)). The \$HOME/.reminder file is used by the TEN/PLUS Time Accounting Helper for the notification of reminders and by various TEN/PLUS helpers for the notification of background process completion.

FILES

\$HOME/.reminder

SEE ALSO

showrem(1), libutil(3a).

DIAGNOSTICS

If the required string argument is missing or **\$HOME/.reminder** cannot be locked or opened, *addrem* exits with a status of -1. If successful, *addrem* exits with a status of 0.

e – INed screen editor

SYNOPSIS

e [filename [line [col [searchkey]]]]

DESCRIPTION

The e command invokes the INed screen editor. INed may be initialized in several ways, depending on the arguments given to the e command.

e filename

Initialize INed at the first page of the indicated file. If the file does not exist, an instruction box indicating "You are attempting to create file: *filename*." appears.

e

Initialize INed to the file and cursor position displayed the last time the user exited from INed. If multiple windows were in use, only the file in the last active window is displayed.

The file specifier *filename* may consist of up to four arguments, as follows:

filename

Specifies a file.

filename line

Specifies the line number (*line*) at which the cursor is to be positioned. If zero is specified, line one is assumed.

filename line col

Specifies the line number (*line*), and column number (*col*) where the cursor should be initially positioned.

filename line col searchkey

Specifies the line (*line*) and column number (*col*) where the cursor should be initially positioned. A **+SEARCH** is then executed to find the next occurrence of the search key (*search-key*). Use *filename* 0 0 *searchkey* to specify a search from the beginning of the file. On systems that have a terminal description file, the shell variables TERM and TDESC may be used. The shell variable TERM may be used to indicate the terminal type in the terminal description file. The shell variable TERM file to be used in place of the default. The alternative terminal description file must have been produced by *tdigest*(1).

For usage details, see the "TEN/PLUS Reference Manual" in the TEN/PLUS User Interface Guide.

(Base)

FILES

~	/usr/lib/INed/profiles/editorprf	system editor profile
	\$HOME/profiles/editorprf	personal editor profile
	\$HOME/.estate	records editor state from invocation to invocation
	namxxxxxxxx	temporary "dots" file for editing ASCII file <i>name</i>
	name.bak	backup copy of ASCII file name
	/usr/bin/e or /usr/bin/te	editor
	/usr/lib/INed/termcap/terms.bin	
		standard terminal description file (if used)
A	LSO	

SEE ALSO

ghost(1), history(1) newfile(1), readfile(1), rmhist(1), tdigest(1), versions(1), ined(4), "TEN/PLUS Reference Manual," *TEN/PLUS User Interface Guide*.

ffill, fjust – fill and justify arbitrarily formatted text using INed

SYNOPSIS

ffill [—ln]

fjust [—ln]

DESCRIPTION

Ffill is a filter that reads text from the standard input file, fills each paragraph, and writes the result on the standard output file. It indents the first and second lines of each paragraph exactly as they are indented in the input file, and all subsequent lines in the paragraph are indented to match the second line. Thus, even block paragraphs with hanging labels on the first line are correctly formatted. Multiple spaces and tabs within a line are converted to single spaces. An extra space is inserted after each word ending with a period, exclamation mark, and question mark.

Ffill is designed for interactive text processing with the **DO** function of the INed editor (see e(1)), treating a blank line as the end of the current paragraph. With INed it is possible to free format a paragraph beginning the first two lines with the proper indentations and then using *ffill* to fill the entire paragraph. Alternatively, the user may edit already filled paragraphs and then refill the text.

Fjust is also a filter normally invoked with the **DO** function of the INed editor. It reads text from the standard input file, fills and justifies each paragraph, and writes the result on the standard output file. Fjust is identical to ffill, except that it justifies each line to produce an aligned right margin. This is accomplished by replacing spaces within short lines with multiple spaces.

The -1 flag sets the right margin for *ffill* or *fjust* at column *n*. The default is 65.

SEE ALSO

e(1),

"TEN/PLUS Reference Manual," TEN/PLUS User Interface Guide.

BUGS

Ffill and fjust set the left margin incorrectly if the first line of any paragraph is more than twice as long as the specified right margin.

Incorrect output is produced for input lines longer than 512 characters.

(Base)

NAME

ghost - reconstruct previous versions of an INed structured file

SYNOPSIS

ghost [-d] [-p] oldname [newname [m/d[/y] [h:m[:s]]]

DESCRIPTION

Ghost reads the INed structured file oldname and reconstructs a previous version of it in the output file newname. If only one argument (oldname) is given, the output file (newname) is taken to be the same, and the old file is backed up as oldname.bak.

If the $-\mathbf{p}$ option is specified, *ghost* reconstructs the most recent version prior to the time specified. If the $-\mathbf{d}$ option is specified, a **.bak** file is not created.

The optional [m/d[/y] [h:m[:s]]] arguments specify a date and time threshold for the reconstruction. The default is the current date and time. If only the month and day are specified, the current year is assumed. If only the date is specified, the time is set to zero (midnight). If only the hour and minute are specified, the seconds are set to zero. Note that the hours are based on a 24-hour clock.

EXAMPLES

ghost oldfile newfile

Reconstructs the current version of oldfile as newfile. This is useful if oldfile is broken.

ghost oldfile

Reconstructs the current version of oldfile. Output is to oldfile, and the old file is saved as oldfile.bak.

ghost -d oldfile

Reconstructs the current version of oldfile. Output is to oldfile, and the old file is not saved.

ghost oldfile newfile 7/15

Reconstructs the July 15th version of oldfile as newfile.

ghost oldfile newfile 7/15/80 15:10

Reconstructs the version of **oldfile** that existed on July 15th, 1980 at 3:10 in the afternoon.

ghost -p oldfile newfile 7/15/80 15:10

Reconstructs the most recent version of **oldfile** that existed prior to July 15th, 1980 at 3:10 in the afternoon.

ghost oldfile newfile 7/15/80 15:10:45

Specifies the version of **oldfile** down to the second. This is useful if several changes where made to a file in a very short time.

SEE ALSO

e(1), history(1), newfile(1), readfile(1), rmhist(1), versions(1).

(Base)

NAME

history – print the history of an INed structured file

SYNOPSIS

history file

DESCRIPTION

History prints a description of the incremental changes that have been made to *file* since its creation.

The format of a structured file is record-oriented. For a simple text file, these records are the text lines in the file. Along with the records is extra information used for inserting lines, deleting lines, setting the current index, specifying start information, and storing user comments. At the end of the file is information about where the current records are located in the file, so that it can be accessed quickly. *History* uses this same extra information to describe the changes made to the records during each editing session.

SEE ALSO

e(1), ghost(1), newfile(1), readfile(1), rmhist(1), versions(1).

newfile – convert a text file into an INed structured file

SYNOPSIS

newfile text_file [new_file]

DESCRIPTION

Newfile converts an ASCII text file to a structured file. If only *text_file* is given, the structured file name is taken to be the same, and the text file is backed up by appending a **.bak** to the text file name. *Newfile* does a fatal error exit if the text file does not exist or if it cannot create the structured file. For example:

newfile document sdoc

converts the ASCII text file document into the structured text file sdoc.

newfile document

converts the ASCII file **document** into a structured text file and saves the ASCII version as **document.bak**.

SEE ALSO

e(1), ghost(1), history(1), readfile(1), rmhist(1), versions(1).

prtty – print to printer port of terminal

SYNOPSIS

prtty [-1 [number]] [file] ...

DESCRIPTION

Prtty prints the named files to the printer port of your terminal. If the -1 flag is specified, it will prompt you to start the printing and will reprompt after *number* lines. The default number of lines is 60. If no files are specified, it reads the standard input.

Prtty reads the environment variable **STERM**, and looks for that terminal in /usr/lib/INed/termcap/terms.bin, the TEN/PLUS terminal description file, in order to get the sequences k2 (enable printer port) and k3 (disable printer port).

SEE ALSO

terms (4).

(Base)

NAME

readfile - display structured files

SYNOPSIS

readfile [-dghstu?] [+n] [-n] [files] [-o outfile]

[files]

DESCRIPTION

Readfile takes a list of structured files and produces an ASCII printout of the contents of each file that illustrates their tree structure. *Readfile* behaves like cat(1) on simple ASCII files. On structured text files, it prints out only the file's string data without indentation.

When no arguments are specified, *readfile* reads standard input as an ASCII file.

The following options are recognized:

- -d Detailed formatted dump of the contents of the input files.
- -g Convert the control characters that are used as graphics characters in forms to printing characters that appear similar.
- -h Separate the output into sections, with headers that identify the input file for each section.
- -o Indicate that the next argument is to be the name of an output file to be used instead of the standard output. This file can be the same as one of the input files, in which case *readfile* backs up the contents of the input file in a .bak file.
- -s Silence messages that report unstructured and nonexistent files among arguments.
- -t Illustrate the structure of the file with a tree diagram. This option is ignored on structured text files and ASCII files.
- -u Suppress buffering of output (default buffer size is the size of the disk block).
- -n Set to *n* columns the size of the increments and decrements in the indentation when printing a non-text structured file. The default value is five columns. This option is meaningless when option -t is specified. The option must be separated from adjacent ones by spaces.
- +n Begin reading file at the nth record. This option must be separated from adjacent ones by spaces.

-? Prompts for syntax of usage.

Options can be combined and can appear in any order, with the exceptions mentioned above.

SEE ALSO

cat(1), newfile(1).

rmhist - remove history from INed structured files

SYNOPSIS

rmhist [-d] [-f] [-kn] file ...

DESCRIPTION

Rmhist takes a list of file names and removes the history information from each file. The files are backed up so that the old version of the file is available as *file.bak*. If any of the files are not structured files, a warning will be printed and no action will be taken.

Following are the options to *rmhist*:

-d Delete .bak file after removing history.

- -f Do not print warnings about attempts to remove history from file(s).
- -kn Keep only the last *n* days of history from the current date.

SEE ALSO

e(1), ghost(1), history(1), newfile(1), readfile(1), versions(1).

WARNING

If the system date has been improperly set to a future date, history time stamp information will be invalid, and *rmhist* will fail. Correct the problem by using ghost(1) with the future date as an argument. Then use *rmhist* to remove the history.

rpl(1)

NAME

rpl – replace all occurrences of a string in a file being edited by INed **SYNOPSIS**

rpl expr substitute

DESCRIPTION

Rpl reads the standard input and, on the standard output, writes the file obtained by replacing all occurrences of the character string that is its first argument by the string that is its second argument.

Rpl is intended primarily for use with the **DO** key of the INed editor, but it can also be used for general text processing applications.

The first argument is usually a simple text string. However, certain special characters may be used to form *regular expressions*, which can match classes of text strings. The symbols that have special meanings in forming regular expressions are listed below.

symbol meaning

At the beginning of a regular expression, matches the empty string at the beginning of a line.

- . Matches any character except a new-line character.
- **\$** Matches the end of a line.
- n Matches the character whose ASCII code is given by n, where n is up to three octal digits, except for 012 (because rpl works on a single line at a time, it is impossible to match the new-line character).
- [] A string of characters enclosed in square brackets matches any character in the string but no others. If, however, the first character of the string is ^, the regular expression matches any character except new-line and the characters in the string.
- Within brackets the minus means "through." For example,
 [a-z] is equivalent to [abcd...xyz]. The can appear as itself only if used as the last or first character. For example, the character class expression []-] matches the characters] and -.
- + A regular expression followed by + means "one or more times." For example, [0-9]+ is equivalent to [0-9][0-9]+.
- A regular expression followed by means "zero or more times."
- **{m**}

{**m**,}

 $\{m,u\}$ Integer values enclosed in $\{\}$ indicate the number of times the preceding regular expression is to be applied. The minimum number is m, and u is a number, less than 256, which is the maximum. If only m is present (i.e., $\{m\}$), mindicates the exact number of times the regular expression is to be applied. $\{m,\}$ is analogous to $\{m,infinity\}$. The plus (+) and star (\bullet) operations are equivalent to $\{1,\}$ and $\{0,\}$, respectively. (...) Parentheses are used for grouping. An operator (e.g., *, +, {}) can work on a single character or a regular expression enclosed in parentheses. For example, (a*(cb+)*)\$.

Of necessity, all the above defined symbols are special. Therefore, if they are to be used as themselves, the $\hat{}, ., \$, [, +, \bullet, \{, \backslash, (, \text{ and })$ must be escaped by preceding each of them with a \backslash . Also, to avoid conflicts with shell special characters, it is a good idea to enclose the *expr* in single quotes when it is other than a simple text string.

Example:

 $rpl'([A-Za-z][A-Za-z0-9]{0,5})'xxx$

This example will replace a string of up to six alphanumeric characters (the first of which must be alphabetic) with the string **xxx**.

To delete a string using *rpl*, replace it by the null string "".

SEE ALSO

e(1), regex(3x),

"TEN/PLUS Reference Manual," TEN/PLUS User Interface Guide.

DIAGNOSTICS

If lines are longer than 256 characters, if two arguments are not given, or if the first argument is the null string, rpl exits with status -2.

showrem – write the contents of the reminder file to standard output

SYNOPSIS

showrem [-d]

DESCRIPTION

Showrem opens the .reminder file in the current \$HOME directory and writes its contents on standard output. If the optional -d flag is specified, showrem deletes the \$HOME/.reminder flag before exiting. showrem uses a lock file to avoid synchronization problems that may occur while accessing \$HOME/.reminder file (see *Llock* and *Unlock* in *libutil*(3a)). This program is normally specified in the TEN/PLUS editor profile as the program to run for the \$HOME/.reminder file on the **Files the Editor Should Watch** screen. The \$HOME/.reminder file is used by the TEN/PLUS Time Accounting Helper for the notification of reminders and by various TEN/PLUS helpers for the notification of background process completion.

FILES

\$HOME/.reminder

SEE ALSO

addrem(1), libutil(3a).

DIAGNOSTICS

If the **\$HOME**/.reminder cannot be locked or opened, *showrem* exits with a status of -1. If successful, *showrem* exits with status of 0.

tconvert – convert /etc/termcap to a structured file

SYNOPSIS

tconvert inputfile outputfile

DESCRIPTION

Tconvert reads record 0 from the file **def.trm** to get the default input mappings and graphics output mappings (g0-g9 and x0-x1), then copies all records from *inputfile* to *outputfile*. Next, *tconvert* scans /etc/termcap, or the file that the environment variable TERMCAP (if set) points to, for terminal descriptions of terminals not already listed in the *inputfile*, and builds a record array of the *termcap* data for each new terminal to be added while merging in the default input and output mappings. Finally, *tconvert* appends the new record(s) to *outputfile*.

The resulting merged terminal descriptions are only rough drafts, generally sufficient for use by the INed *termcap* editor (e(1)), but likely in need of improvement to make use of any special function keys or capabilities that the newly-added terminal(s) may offer. Such improvements must be made to the new records in *outputfile* prior to using it as input to *tdigest*(1). To facilitate changes in *outputfile* via the editor, the name of the *outputfile* must be **trm** or contain the suffix .**trm**, otherwise the proper forms needed for editing of the file will not be called by the editor.

The terminal names *tconvert* uses are the ones in the second field of the *termcap* entries. Records from the *inputfile* override *termcap* entries.

FILES

/usr/lib/INed/termcap/def.trm

default terminal descriptions for INed termcap editor (a structured file)

/etc/termcap

SEE ALSO

e(1), tdigest(1),

terminal capability database

tdigest - digest the terms files

SYNOPSIS

tdigest inputfile outputfile

DESCRIPTION

Tdigest converts the terminal description entries in the structured *inputfile* into binary entries in *outputfile* as required for efficient usage by the INed *termcap* editor.

Upon startup the editor checks the TDESC environment variable to determine the pathname of the binary description file that should be read. If the TDESC variable is not set the editor checks to see if the the editor SYS variable is set. If SYS is set reads **\$\$Y\$/termcap/terms.bin**. If \$Y\$ is not set then the editor looks in the default system-wide description file, /usr/lib/INed/termcap/terms.bin. This mechanism allows for the testing of a new binary terminal description file prior to making it available to the general user community.

FILES

/usr/lib/INed/termcap/def.trm	terminal descriptions (a structured file)
/usr/lib/INed/termcap/terms.bin	the digested terminal descriptions file (a binary file)
1.50	(,

SEE ALSO

e(1), tconvert(1),

versions - print out modification dates in an INed structured file

SYNOPSIS

versions file

DESCRIPTION

Versions prints out the modification dates from a structured file. These are the times that the file was opened for modification and can be used to reconstruct the file using the ghost(1) program.

SEE ALSO

e(1), ghost(1), history(1), newfile(1), readfile(1), rmhist(1).

ined - files used by the INed system

DESCRIPTION

The directory /usr/lib/INed contains a number of files and subdirectories used internally by the INed editing system.

- forms is a directory containing forms used by the INed system. Files ending in .x or named x use the form x.ofm. The forms are binary files used directly by INed in generating displays.
- helpers is a directory containing programs invoked by INed to help work on certain kinds of data. Files ending in .x or named x use the helper named x.help. Helpers typically supply the functions listed by the INed **LOCAL-MENU**.
- help is a directory containing files to display when the INed **HELP** function is used.
- hmgs is a directory containing all the messages displayed by the INed **HELP** function when an error message or menu is displayed.

FILES

/usr/lib/INed

SEE ALSO

e(1), "TEN/PLUS Reference Manual," TEN/PLUS User Interface Guide.

def.trm, terms.bin - INed terminal description file

DESCRIPTION

The structured file **def.trm** contains an entry for each terminal supported by INed. Each terminal description contains two sections: a mapping of editor functions to the keyboard (**Input Sequences**), and a list of the terminal escape sequences used to update the screen (**Output Sequences**).

A default version of **def.trm**, with various terminal descriptions, is installed in the directory /usr/lib/INed/termcap. The definitions in this file, which can be modified, may be available to all users. Alternately, individual users can modify private copies of def.trm, to customize their terminal capabilities to their needs.

Def.trm consists of a list of records, each entry of which is one terminal description. Record 0 of **def.trm** contains a set of default input mappings and graphics output mappings that are used by *tconvert*(1) to create new INed terminal descriptions from a *termcap*() database. The fields in each record are **Terminal Type**, **Output Sequences**, and **Input Sequences**. To view the output sequences for a specific terminal type, **ZOOM-IN** on the **Output Sequences** for that type. To view the input sequences for a specific terminal type, **ZOOM-IN** on the **Input Sequences** for that type.

Input sequences map INed functions to specific keys or combinations of keys. The fields included in each entry are **Editor Function**, **Value**, and **Key Name**. The **Editor Function** field lists each INed function by name. The **Value** field lists the code produced by the terminal (obtained from the terminal's technical manual) that initiates the named function. The **Key Name** field contains a mnemonic identifier for the keys that invoke the function listed as the **Editor Function**. The following are sample input sequences from the VT100 terminal description:

Editor Function	Value	Key Name
DELETE-CHARACTER	\0177	DELETE
HELP	^	CTRL-?
MENU	^[OP	PF 1

The escape sequences defined as output sequences map terminal capabilities, such as clear screen and cursor motion, to the specific terminal commands that initiate those capabilities. In addition, other capabilities that are generally thought of as input-related, such as the definitions of the BREAK and QUIT characters, are described as output sequences because input sequences are used to define only INed function mappings. Because the input sequences contain no provisions for boolean values, such as whether **ENTER** and **EXECUTE** are mapped to the same key, these are also defined as output sequences. The output sequences include terminal-dependent output string sequences, modifiers such as boolean flags (e.g., whether the terminal supports automatic margin-wrapping) and numbers (e.g., the number of lines and columns on the screen), and input-related escape sequences.

Each entry in the Output Sequences includes three fields: Name, Meaning, and Value. The Name field contains the two-character mnemonic for the terminal capability, as defined by the INed editor or in termcap(). The **Meaning** field contains the data type (string, numeric, or boolean) of the capability, and a short description of it. The **Value** field contains the terminal code that produces the desired action (as defined in the technical manual for the specific terminal), or TRUE/FALSE if the capability has a boolean value. The following are sample output sequences from the VT100 terminal description:

Name	Mean	ing	Value
al	Str:	insert line	\E[L
bs	Bool:	terminal can backspace with [^] h	TRUE
ee	Bool:	enter/execute	TRUE
k0	Str:	DEL character	^]
k 1	Str:	QUIT character	

The first entry indicates the terminal code that causes a new line to be inserted; the second entry indicates that the terminal can backspace using CTRL-h; the third entry indicates that enter and execute are mapped to the same key; the fourth entry indicates that the DEL character is CTRL-]; and the fifth entry indicates that the QUIT character is the default as determined by the environment.

The Value field is interpreted as follows. For boolean fields, the first character is examined. If it is "T" or "t," the value is taken to be true. Otherwise, it is taken to be false. For string fields, the defaults are changed only if a new value is explicitly specified.

Following is a list of the escape sequences used by the editor:

Name	Meaning	
al	Str:	Insert line
am	Bool:	automatic margins, i.e. cursor wraps at EOL
bc	Str:	backspace character
bs	Bool:	terminal can backspace with [^] h
bw	Bool:	backspace wraps to end of cur lin
ce	Str:	kill to eol
cl	Str:	clear screen
cm	Str:	cursor motion
cr	Str:	carriage return
dc	Str:	delete char
dl	Str:	delete line
ei	Str:	end insert mode
g0 *	Str:	graphics ULC (underline char)
g1 *	Str:	graphics VBAR (vertical bar)
g2 *	Str:	graphics LLC (lower left corner)
g3 *	Str:	graphics URC (upper right corner)
g4 *	Str:	graphics LRC (lower right corner)
g5 *	Str:	graphics HBAR (horizontal bar)
g6 *	Str:	graphics TEE
g7 *	Str:	graphics INVTEE (inverted tee)
g8 *	Str:	graphics TEEONL (tee on left)
g9 *	Str:	graphics TEEONR (tee on right)
ge *	Str:	graphics mode off
gs *	Str:	graphics mode off
ho	Str:	home cursor
ic	Str:	insert char

im	Str:	insert mode on
ip	Str:	pad after insert char
is	Str:	terminal initialization string
nd	Str:	cursor right
nl	Str:	newline
ti	Str:	terminal initialization, part 2
te	Str:	undoes effects of is/ti
uc	Str:	underline following character
ue	Str:	underline mode off
uk *	Str:	unlock terminals
up	Str:	cursor up
us	Str:	underline mode on
x0 *	Str:	graphics CROSS
x1 *	Str:	graphics blot (region start mark)
ee *	Bool:	EXECUTE at top level means ENTER
fe *	Bool:	Filter in a menu means EXECUTE
df *	Bool:	disable flow-control (^s ^q)
gu *	Str:	unknown graphics char
gd *	Str:	graphics dot
ANSI *	Bool:	does the terminal support ansi style seqs?
NOSTRIP *		
	Bool:	should we turn off istrip and get 8 bits?
md *	Rool.	memory-manned screen supported

md * Bool: memory-mapped screen supported

abyte * Num: attribute byte for memory mapped normal text

ubyte * Num: attribute byte for memory mapped underlined text

The terminal capabilities that are not standard sequences found in /etc/termcap are flagged with asterisks. There are many more terminal capabilities that are defined by termcap(); however, those that are not listed here are not used by the editor.

The tconvert(1) program is used to convert termcap-defined terminal capabilities into a record array of input and output mappings in the structured **def.trm** file. The tconvert(1) program reads the first record from **def.trm** to get the default input mappings and output graphics mappings. It then reads the file /etc/termcap, or the file the TERMCAP environment variable points to, builds a record array of the termcap data while merging in the default input and output mappings, and appends the new data to the output file. The tdigest(1) program must then be used to produce a rapid-access, binary version of def.trm, named terms.bin. This is the data INed actually uses.

It is recommended that tdigest(1) be run from within INed because if tdigest(1) does not complete successfully, it may produce a zero-length **terms.bin** file. The zero-length **terms.bin** file would prevent the editor from being re-entered. (Note, however, that tdigest(1) first backs up the existing **terms.bin** file into **terms.bin.bak**.) From within the editor, you can continue to make changes to the terminal descriptions and run tdigest(1) until it executes successfully, at which point you can exit the editor and re-enter, in order to test the changes. The **terms.bin** file is read when the editor is started, when returning from a full screen command, and when returning from popup boxes that use more than the full screen.
FILES

/usr/lib/INed/termcap/def.trm /usr/lib/INed/termcap/terms.bin /etc/termcap

SEE ALSO

tconvert(1), tdigest(1), termcap().





TEN/PLUS User Interface Installation Instructions

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TEN/PLUS User Interface Installation Instructions

1. OVERVIEW

The TEN/PLUS[®] User Interface is installed on your fixed disk using the sysadm utility. It takes about 1.7 MB of space and requires that the Core subset already be installed. You should read the following documents before attempting to install the TEN/PLUS User Interface on your system:

- "386/ix Installation Instructions"
- "386/ix Maintenance Procedures"
- "UNIX Primer"

These documents were delivered with your 386/ix[™] Operating System.

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AT and IBM are registered trademarks of International Business Machines Corporation. DEC, VT100, VT220, and VT240 are trademarks of Digital Equipment Corporation. WYSE is a registered trademark of WYSE Technology.

2. INSTALLING THE TEN/PLUS USER INTERFACE

1. To begin the installation, use the System Administration command, sysadm, or log in as sysadm to access the Main menu. Your screen will look similar to this:

```
      SYSTEM ADMINISTRATION

      1 diskmgmt
      disk management menu

      2 filemgmt
      file management menu

      3 machinemgmt
      machine management menu

      4 packagemgmt
      package management menu

      5 softwarengmt
      software management menu

      6 syssetup
      system setup menu

      7 ttymgmt
      tty management menu

      8 usermgmt
      user management menu

      Enter a number, a name, the initial part of a name, or
      or <\number>? for HELP, q to QUIT:
```

2. Type 5 to access the Software Management Menu. Your screen will then look similar to this:

```
SOFTWARE MANAGEMENT

1 installpkg install new software package onto built-in disk

2 listpkg list packages already installed

3 removepkg remove previously installed package from built-in disk

4 runpkg run software package without installing it

Enter a number, a name, the initial part of a name, or

? or <number>? for HELP, ^ to GO BACK, q to QUIT:
```

3. Select option 1, installpkg. The system prompts you to insert the first diskette into the diskette drive. The screen will look similar to this:

> Insert the removable medium for the package you want to install into the diskette drive. Press <RETURN> when ready. Type q to quit.

4. Insert the TEN/PLUS User Interface diskette into the diskette drive. The system asks you to confirm that this is the package you want to install. Use **RETURN** to start the installation process.

```
Install the TEN/PLUS USER INTERFACE package? (y):
Installing the TEN/PLUS USER INTERFACE.
Copyright (c) 1987 AT&T
All Rights Reserved
The following files are being installed:
/usr/bin/cleandir
/usr/bin/e
/usr/bin/ffill
/usr/bin/ghost
.
.
/usr/lib/INed/help/histhelp
/usr/options/t1.name
Floppy diskette number 1 is complete
Remove floppy and insert floppy number 2
Type <return> when ready:
```

5. Remove the first diskette and insert the next one. Then use **RETURN** to continue.

The following files are being installed: /usr/lib/INed/help/keys.map . . /usr/lib/INed/termcap/terms.bin /usr/options/t1.name Floppy diskette number 2 is complete Installation of the TENPLUS USER INTERFACE is complete. You may now remove the medium from the diskette drive.

(The names of some of the files have been omitted for the sake of brevity.)

6. The TEN/PLUS User Interface is now installed on your fixed disk. Your terminal must be correctly configured before you can use TEN/PLUS. The following section explains how to configure your terminal.

3. SETTING THE TERMINAL ENVIRONMENT

3.1 Introduction

The TEN/PLUS User Interface is designed to be terminal-independent and can be configured to support most terminals. Before you can use the system, you must determine that your terminal is correctly configured to support the TEN/PLUS User Interface. The characteristics of each terminal must be established and made accessible to TEN/PLUS.

Your system is delivered with a number of predefined terminal types. This section explains how to set the terminal type on your system using a currently supported terminal configuration (see §3.2).

3.2 Determining Your TERM Variable

A default terminal type is usually established for you when the system is installed. You may determine the default terminal type on your system by typing:

\$ echo \$TERM

at the system prompt. The system displays the value of the **\$TERM** variable on your system. Your screen will look similar to this:

AT386

If TERM is not set, the system will simply return the prompt.

If you are using the standard AT[®] console, the TERM variable should be assigned atcon or AT386 as its value. These two values are synonymous and can be typed in either upper- or lowercase. If you are not using a standard AT console or if no TERM variable is set, you must assign the TERM variable the correct value.

3.3 Setting Your TERM Variable

If all the users on your system are using the same terminal type, you may set the terminal variable for the entire system by adding the following two lines to the file /etc/profile:

```
TERM=termvariable
export TERM
```

where *termvariable* is replaced by the variable name of your terminal. The table below lists all of the valid terminal types available on your system. If you are not using one of the supported terminals, you must contact your vendor to determine how you can update your system to include a correct terminal description.

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Here are the terminal types supported by the TEN/PLUS User Interface. Use this table to determine the correct TERM variable for your system.

Terminal Type	Variable			
Typical dumb terminals	default			
INTERACTIVE INtext [™] II	intext2			
DEC TM VT100 TM	v t100			
DEC VT220 TM	vt220			
DEC VT240 TM	vt240			
IBM® 3101	ibm3101			
AT&T 5425	5425			
AT&T 4425	4425			
Esprit 6310	esp6310			
IBM AT or compatible	atcon or AT386			
WYSE [®] 60	wyse60			

If several different terminal types are attached to your system, each user can define an appropriate TERM variable. There are two ways to define a TERM variable. You may assign a value for the current login session, or you may set it permanently by modifying a user's .profile file.

For example, if you are using a VT100 terminal and want to set the TERM variable for the current login sessin only, type the following commands at the system prompt:

```
$ TERM=vt100
export TERM
```

If you want to set the TERM variable permanently, edit the file .profile located in your HOME directory to include these lines:

```
TERM=vt100
export TERM
```

To initialize the new terminal type, log out of the system, then log back in again.

4. THE TEN/PLUS SUBSET FILES

The following files make up the TEN/PLUS User Interface subset:

• /usr/bin

A directory where some of the TEN/PLUS command files are stored.

```
/usr/bin/cleandir
```

A shell script that cleans a single directory.

/usr/bin/e

A link to /usr/bin/te.

/usr/bin/ffill

A filter, which may be run on a file being edited, that fills broken lines of text.

/usr/bin/fjust

A filter, which may be run on a file being edited, that justifies lines of text.

/usr/bin/ghost

Reconstructs previous versions of structured files.

/usr/bin/history

Provides a record of the incremental changes made to a file since its creation.

/usr/bin/housekeep

A shell script used by the housekeep option of the New Task Menu.

/usr/bin/prtty

Prints files to the printer port of a terminal.

/usr/bin/readfile

Displays structured files in an ASCII printout of their contents.

/usr/bin/rmhist

Removes the history information from structured files.

/usr/bin/rpl

A filter, which may be run on a file being edited, that replaces all occurrences of a string.

/usr/bin/tconvert

Converts /etc/termcap to a structured file for use by the *termcap* editor.

/usr/bin/tdigest

Converts the structured terminal description entries into binary entries as required for efficiency.

- /usr/bin/te The TEN/PLUS editor.
- /usr/bin/versions Prints out the modification dates of a structured file.
- /usr/lib/INed

The directory where files used by the TEN/PLUS system are stored.

- /usr/lib/INed/FATAL.LOG Keeps a list of the fatal errors that occur while using the TEN/PLUS system.
- /usr/lib/INed/bin The directory where executable programs used by the TEN/PLUS system are stored.
 - /usr/lib/INed/bin/addrem
 Appends a reminder string to \$HOME/.reminders. It is used
 by the Time Accounting Helper and various TEN/PLUS helpers.
 - /usr/lib/INed/bin/fixascii Recovers ASCII files in the event of system problems.
 - /usr/lib/INed/bin/newfile Converts ASCII text files into structured files.
 - /usr/lib/INed/bin/poundfile Recovers text deleted while using the editor.

/usr/lib/INed/bin/showrem Writes the contents of the reminder file to the standard output.

• /usr/lib/INed/forms

The directory that stores compiled forms used by the TEN/PLUS system to generate displays.

- /usr/lib/INed/forms/cmd.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/cmds.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/editorprf.ofm A compiled form used by the TEN/PLUS Profile Helper.

- /usr/lib/INed/forms/emenu.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/emenuz.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/etask.ofm A compiled form used by the TEN/PLUS Profile Helper.
- /usr/lib/INed/forms/hdq.ofm A compiled form used by the TEN/PLUS Profile Helper.
- /usr/lib/INed/forms/hist.ofm A compiled form used by the TEN/PLUS History Helper.
- /usr/lib/INed/forms/howto.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/howtos.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/index.ofm A compiled form used by the TEN/PLUS File Manager.
- /usr/lib/INed/forms/indexprf.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/inseq.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/ls.ofm A compiled form used by the TEN/PLUS File Manager.
- /usr/lib/INed/forms/map.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/mappict.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/outseq.ofm A compiled form used by the TEN/PLUS system.
- /usr/lib/INed/forms/phelp.ofm A compiled form used by the TEN/PLUS Profile Helper.
- /usr/lib/INed/forms/pmenu.ofm A compiled form used by the TEN/PLUS Profile Helper.
- /usr/lib/INed/forms/ppaths.ofm A compiled form used by the TEN/PLUS Profile Helper.

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/usr/lib/INed/forms/printprf.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/prthelp.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/prthelpz.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/prtprfz.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/pwatch.ofm A compiled form used by the TEN/PLUS Profile Helper.

/usr/lib/INed/forms/sindex.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/stat.ofm A compiled form used by the TEN/PLUS File Manager.

/usr/lib/INed/forms/std.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/tindex.ofm A compiled form used by the TEN/PLUS File Manager.

/usr/lib/INed/forms/tls.ofm A compiled form used by the TEN/PLUS File Manager.

/usr/lib/INed/forms/trm.ofm A compiled form used by the TEN/PLUS system.

/usr/lib/INed/forms/tstat.ofm A compiled form used by the TEN/PLUS File Manager.

• /usr/lib/INed/help The directory that stores files containing the information displayed when the TEN/PLUS **HELP** function is invoked.

/usr/lib/INed/help/dirhelp File Manager help file.

/usr/lib/INed/help/e.cmds Alphabetic list of editor commands.

/usr/lib/INed/help/e.howtos Explanation of how to do things in the editor.

- /usr/lib/INed/help/editorprf.hdq Editor profile help file.
- /usr/lib/INed/help/emenu Sample menu options.
- /usr/lib/INed/help/histhelp History display help file.
- /usr/lib/INed/help/keys.map Keyboard layout maps.
- /usr/lib/INed/help/prthelp Sample Print Helper options.
- /usr/lib/INed/helpers The directory that stores programs invoked by the TEN/PLUS editor to help work on certain kinds of data.
 - /usr/lib/INed/helpers/editorprf.help The TEN/PLUS Profile Helper.
 - /usr/lib/INed/helpers/generic.help The Forms Language script interpreter.
 - /usr/lib/INed/helpers/history.help The History Helper.
 - /usr/lib/INed/helpers/index.help The File Manager.
 - /usr/lib/INed/helpers/print.help The Print Helper.
- /usr/lib/INed/hmgs

The directory that stores all the messages displayed by the TEN/PLUS environment as well as the information displayed when you use the **HELP** function when an error message or menu is displayed.

/usr/lib/INed/hmgs/DT.hmg

The file that contains the help messages for the Date Time Library.

usr/lib/INed/hmgs/addrem.hmg Text displayed by the addrem program

/usr/lib/INed/hmgs/editor.hmg The file that contains the help messages for the TEN/PLUS editor. /usr/lib/INed/hmgs/editorprf.hmg The file that contains the help messages for the TEN/PLUS Profile Helper. usr/lib/INed/hmgs/fixascii.hmg Text displayed by the fixascii program /usr/lib/INed/hmgs/generic.hmg The file that contains the help messages for the Forms Language Interpreter. usr/lib/INed/hmgs/ghost.hmg Text displayed by the ghost program /usr/lib/INed/hmgs/history.hmg The file that contains the help messages for the History Helper. /usr/lib/INed/hmgs/index.hmg The file that contains the help messages for the TEN/PLUS File Manager. usr/lib/INed/hmgs/newfile.hmg Text displayed by the newfile program usr/lib/INed/hmgs/poundfile.hmg Text displayed by the poundfile program /usr/lib/INed/hmgs/print.hmg The file that contains the help messages for the TEN/PLUS Print Helper. usr/lib/INed/hmgs/prtty.hmg Text displayed by the prtty program usr/lib/INed/hmgs/readfile.hmg Text displayed by the readfile program usr/lib/INed/hmgs/rmhist.hmg Text displayed by the rmhist program usr/lib/INed/hmgs/rpl.hmg Text displayed by the rpl program usr/lib/INed/hmgs/showrem.hmg Text displayed by the showrem program usr/lib/INed/hmgs/tconvert.hmg Text displayed by the tconvert program

- usr/lib/INed/hmgs/tdigest.hmg Text displayed by the tdigest program
- /usr/lib/INed/profiles The directory where the TEN/PLUS system default profiles are stored.
 - /usr/lib/INed/profiles/editorprf The default system editor profile.
 - /usr/lib/INed/profiles/indexprf The default File Manager profile.
 - /usr/lib/INed/profiles/printprf The default Print Helper profile.
- /usr/lib/INed/scripts The directory that stores the Forms Language scripts.
- /usr/lib/INed/srcforms The directory where uncompiled versions of the forms used by the TEN/PLUS system are stored.
 - /usr/lib/INed/srcforms/cmd.frm An uncompiled version of a form used by the TEN/PLUS system.
 - /usr/lib/INed/srcforms/cmds.frm An uncompiled version of a form used by the TEN/PLUS system.
 - /usr/lib/INed/srcforms/editorprf.frm
 An uncompiled version of a form used by the TEN/PLUS Profile
 Helper.
 - /usr/lib/INed/srcforms/emenu.frm An uncompiled version of a form used by the TEN/PLUS system.
 - /usr/lib/INed/srcforms/emenuz.frm An uncompiled version of a form used by the TEN/PLUS system.

/usr/lib/INed/srcforms/etask.frm
An uncompiled version of a form used by the TEN/PLUS Profile
Helper.

/usr/lib/INed/srcforms/hdq.frm An uncompiled version of a form used by the TEN/PLUS Profile Helper.

/usr/lib/INed/srcforms/hist.frm
An uncompiled version of a form used by the TEN/PLUS History
Helper.

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- /usr/lib/INed/srcforms/howto.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/howtos.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/index.frm

An uncompiled version of a form used by the TEN/PLUS File Manager.

- /usr/lib/INed/srcforms/indexprf.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/inseq.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/ls.frm
 An uncompiled version of a form used by the TEN/PLUS File
 Manager.
- /usr/lib/INed/srcforms/map.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/mappict.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/outseq.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/phelp.frm
 An uncompiled version of a form used by the TEN/PLUS Profile
 Helper.
- /usr/lib/INed/srcforms/pmenu.frm
 An uncompiled version of a form used by the TEN/PLUS Profile
 Helper.
- /usr/lib/INed/srcforms/ppaths.frm
 An uncompiled version of a form used by the TEN/PLUS Profile
 Helper.
- /usr/lib/INed/srcforms/printprf.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/prthelp.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/prthelpz.frm An uncompiled version of a form used by the TEN/PLUS system.

- /usr/lib/INed/srcforms/prtprfz.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/pwatch.frm
 An uncompiled version of a form used by the TEN/PLUS Profile
 Helper.
- /usr/lib/INed/srcforms/sindex.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/stat.frm
 An uncompiled version of a form used by the TEN/PLUS File
 Manager.
- /usr/lib/INed/srcforms/std.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/tindex.frm
 An uncompiled version of a form used by the TEN/PLUS File
 Manager.
- /usr/lib/INed/srcforms/tls.frm
 An uncompiled version of a form used by the TEN/PLUS File
 Manager.
- /usr/lib/INed/srcforms/trm.frm An uncompiled version of a form used by the TEN/PLUS system.
- /usr/lib/INed/srcforms/tstat.frm
 An uncompiled version of a form used by the TEN/PLUS File
 Manager.
- /usr/lib/INed/termcap The directory that contains files used by the TEN/PLUS *termcap* editor.

/usr/lib/INed/termcap/def.trm
Default terminal descriptions in a structured file, for the INed
termcap editor.

/usr/lib/INed/termcap/terms.bin

The standard binary terminal description file for the TEN/PLUS system.

