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AlphaXED User's Manual

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AlphaXED User's Manual

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CHAPTER 1

INTRODUCTION

XED is a text editor, similar to and containing most of the features of AlphaVUE, tailored to the needs of programmers. It lets you easily edit program files, and has many features to help you with program design.

Generally, XED is used in conjunction with other Alpha Micro software. If you use XED to write a BASIC PLUS file, for example, you'd also use COMPLP to make an executable file, and RUNP to run it.

This manual shows you how to use XED to write a program or text file and edit it so you get the results you want. Other manuals, listed at the end of this chapter, help you with processing your XED files.

IF YOU ARE A NEW COMPUTER USER

This manual assumes you know the basics of the Alpha Micro Operating System (AMOS), and understand how to log on, use accounts, and use your keyboard. If you are unfamiliar with these subjects, you should first read the appropriate parts of the *AMOS User's Guide*.

FILES AND FILE NAMES

Your file name consists of two parts: the filename itself (which can be from one to six characters long) and the extension that defines the type of file (which can be from zero to three characters long). For example, your file name might be DEBIT.BP. DEBIT is the descriptive file name, and .BP indicates it is a BASIC PLUS source file. Other examples are STOCK.M68, GRAPH.C.

THE XED.INI FILE

The XED.INI file controls certain aspects of XED execution, and contains commands, called parameters. For example, if the XED.INI file contains the statement DEFAULT BP, when you tell XED to create a file, without specifying an extension, the program assumes .BP.

Because XED lets you create your own XED.INI file, you can include the parameters most useful to you—that's why AlphaXED is so versatile. However, a clear understanding of the XED.INI file and its operation depends on a familiarity with the rest of AlphaXED. Therefore, a complete explanation of this file is delayed until Appendix A.






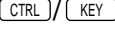





READER'S COMMENTS FORM

At the back of the manual is a Reader's Comments Form. We would appreciate it if you would use this form to tell us what you like about the manual and/or how you think we can improve it. Although we regularly update our documentation to reflect changes in the software, it is your advice that contributes the most toward improving the overall quality of the books.

GRAPHICS CONVENTIONS

This manual conforms to the other Alpha Micro publications in its use of a standard set of graphics conventions. We hope these graphics simplify our examples and make them easier for you to use. Unless stated otherwise, all examples of commands are assumed to be entered at AMOS command level.

SYMBOL	MEANING
devn:	Device Name. "dev" is the three letter physical device code, and "n" is the logical unit number. Examples of device names are DSK0:, DSK5:, WIN1:, and MTU0:. Usually, device names indicate disk drives, but they can also refer to magnetic tape drives and video cassette recorders.
filespec	Identifies a specific file in an account. The format is: <div style="text-align: center;"> <pre>devn:filename.ext[account]</pre> </div> For example: <div style="text-align: center;"> <pre>DSK0:SYSTEM.INI[1,4]</pre> </div>

SYMBOL	MEANING
NAME	Command and option names are printed in capital letters in a smaller type font. For example: SEARCH.
{?}	Braces indicate optional elements of a command line. In the example: <div style="text-align: center; margin: 10px 0;">DIR{/switch}</div> the braces tell you "/switch" is not required.
TEXT	Bold text in an example of user/computer communication represents the characters you type.
TEXT	Text like this in an example of user/computer communication represents characters the computer displays on your screen.
	In our examples, the key symbol appears whenever you need to press a key on your terminal keyboard. The name of the key you need to press appears inside the key symbol, like this:  . If you need to press the TAB key, you would see  , or the ESC key,  (sometimes ESC is labeled  .
	Indicates a control sequence you press on the keyboard. Press  and hold it down while pressing the indicated key.
^	This symbol in front of a capital letter means the letter is a "control character." For example, when you press  , it appears on your screen as ^C.
	This symbol means "halt!" It indicates an important note you should read carefully before going further in the documentation. Usually, text next to this symbol contains instructions for something you MUST or MUST NOT do, so read it carefully.
	This symbol means "hint." It indicates a helpful bit of information, or a "short cut" that could save you time or trouble.
	This symbol means "remember." It indicates something you should keep in mind while you are following a set of instructions.

OTHER ALPHA MICRO MANUALS TO USE

These manuals, available from Alpha Micro, may help you in your use of XED:

AMOS Manuals:

AlphaVUE/TXTFMT Training Guide
User's Guide
System Operator's Guide
System Commands Reference Manual

Programming Manuals:

AlphaBASIC User's Manual
AlphaBASIC PLUS User's Manual
AlphaC User's Manual
AlphaC Interface to the AMOS Monitor Calls
AlphaCOBOL User's Manual
AlphaFORTRAN Compiler User's Manual
AlphaFORTRAN Linker User's Manual
AlphaPASCAL User's Manual
Assembly Language Programmer's Manual
ISAM PLUS User's Manual

CHAPTER 2

GETTING STARTED


If you are new to using AlphaXED, this chapter introduces you to the basics and helps you decide which other chapters to examine next. This chapter explains:

- The terminal and your keyboard.
- How to create a new file.
- An overview of AlphaXED's operating modes.
- Exiting a file.


YOUR TERMINAL AND KEYBOARD

In addition to character keys, your terminal keyboard has a few keys important to AlphaXED:


KEY NAME	PURPOSE
<code>RETURN</code>	The RETURN key, sometimes labeled as RET, CR or ↵, corresponds roughly to the carriage return on a typewriter. <code>RETURN</code> advances the cursor to the next line. The cursor is a small marker moving along in front of each letter as you type. Depending on the kind of terminal, it could be a rectangle, square, triangle, or flashing line.
<code>RUBOUT</code>	The RUBOUT key, sometimes labeled RUB, DELETE, or DEL, is used to correct errors. When you press this key, the cursor moves backward one space and erases the previous character. If your terminal has a repeat feature, holding down <code>RUBOUT</code> causes the cursor to continue to move backward, deleting each character it passes.

KEY NAME	PURPOSE
ARROW Keys ← ↑ → ↓	<p>The keys labeled with arrows move the cursor around without deleting characters. When you press an arrow key, the cursor moves in the direction the arrow points.</p> <p>If you hold an arrow key down, the cursor continues to move without deleting the characters it passes. When you want to correct a word or character in the middle of a line, you can use the arrow keys to move the cursor to the word, then make your correction. Other ways of moving the cursor back and forth within your document are discussed in Chapter 4.</p>
	<p>The TAB key spaces out a specific distance, which varies according to the type of file. You can also set the TAB width.</p> <p>The default TAB setting is 8 characters wide, but it acts as 1 character—you can't move the cursor into a tab field. If the tab is set to 8 or higher from command mode, there is a "tab character" acting like a single space, even though it appears to be more. You can delete this tab character by using the CHAR DEL key. You can alter the tab stops to suit your needs. However, if tab is less than 8, spaces are used instead of the tab character. If tab is 9 or 10, one or two spaces are added to the tab character. Resetting the TAB character in the XED.INI file allows you to set the width of the tab character itself—for example, setting it to 5 would generate a tab character 5 spaces wide but acting as a single character.</p>

Function Keys

At the top or side of your keyboard, there may be a set of keys labelled with the letter F and a number. These are function keys, and you use them to make use of some AlphaXED features. Because different keyboards have different numbers of function keys, the same function key—for example, —may access different features on different keyboards.



Throughout this manual, we refer to function keys by the name of the feature, as shown in the *AlphaXED Terminal Keyboard Reference Card*—for example, —and never by number, since the number may vary from terminal to terminal.

If there aren't any function keys on your terminal keyboard, don't worry. You can use any function key feature by pressing the universal key sequence for the feature. Universal key sequences work on any terminal, and are listed in Appendix C and on the *AlphaXED Terminal Keyboard Reference Card*.

The CONTROL Key

You do certain AlphaXED operations by using the key labeled CTRL, or CONTROL. You also use `CTRL` for some universal key sequences. When a key sequence requires you to use `CTRL` and a character, press the keys at the same time. To do this, hold down `CTRL` and press the character key once.

The ESC Key

You switch between AlphaXED's command and editing modes by using the key labeled ESC or ESCAPE (or by pressing `MENU`).

Alpha Micro Compatible Terminals

The terminals sold by Alpha Micro have special features other terminals may not have—features making it easier and more convenient to use AlphaXED. For example, the NEXT SCREEN key advances the screen page, and `HOME` takes you to the beginning of your file.

The information in this book assumes you are using an Alpha Micro compatible terminal. If you do not have the keys identified in this book, see Appendix C for the universal key sequence to do a particular feature.

USING THE XED COMMAND

To use AlphaXED, type XED followed by a file name. This can be the name of either a new file you want to create, or an existing file you want to work with again. For example:

```
XED TEST.BP RETURN
```

If you don't specify a file name, XED prompts you for one:

```
Input file? TEST.BP RETURN
```

If TEST.BP doesn't exist in your account, you are asked if you want to create it. If it does exist, or you do create it, XED displays the file on your screen and lets you edit it. The XED command has some options you may find useful later—they are explained in Chapter 11. The next two sections describe what happens when you create a new file or call up an existing one.

Creating an AlphaXED File

When you use the XED command with a file name which doesn't exist in the account you're in, AlphaXED asks if you want to create the file. For example:

```
TEST.BP does not exist, do you wish it created?
```

To create the file, type Y . If for some reason you don't want to create the file, just press . When you create the file, AlphaXED displays an empty file on your screen. The cursor is on a blank line at the top of your screen, with asterisks filling the rest of the display. The end of an AlphaXED file is always marked by asterisks.

This is the most common way for a new file to display on your screen. If MODEM is set ON in your XED.INI file, you may see only five asterisks on each line instead of an entire row. You may also see a ">" symbol followed by the cursor. If you see this symbol, press and you see the display described above.

The last line of your screen is the "status line." It shows the version of AlphaXED you're using, the name of the file you're in and the line you're on, and various option settings from the XED.INI file. For example:

```
XED 1.0(125) DSK2:TEST.BP. Width=78 Tab=8 CL 060 LN 00310
```

Choosing a File Name

Like other AMOS file names, AlphaXED file names can have up to six letters and numbers, with an extension of from zero to three letters and numbers. In general, the extension describes the type of file you're creating. For example, the .TXT extension is for a text file, while program source files may have an .M68 extension for assembly language, .BP for AlphaBASIC PLUS, and so on.

You may use any combination of letters and numbers for the name and most combinations for the extension. However, certain extensions are restricted for use by specific AMOS programs, and you can't use AlphaXED to edit them:

RESTRICTED FILE EXTENSIONS

ALC	AMX	ATT	BAK	CAX	CBX	CMN	DVR	FXO
FWD	IDA	IDV	IDX	IDY	IPF	JRL	JRN	LDF
LIB	LIT	MAX	MDV	MIC	MLX	MON	NDV	OBJ
OVR	PDV	PFK	PHN	RMX	RP	RPD	RUN	SBR
SPD	SPG	SYM	SYS	TDV	TMP	UNV	USM	VUX
XBR	WRM	WRT	WRX	WSV				

If you try to create an AlphaXED file with one of these extensions, you see the message:

```
?Cannot XED or UNYANK file with .XXX extension.
```

Where XXX represents the offending extension.

Viewing an Existing File

Enter XED followed by the name of an existing file. For example:

```
XED MYFILE.TXT RETURN
```

If you don't specify an extension—.TXT in the example above—AlphaXED refers to a default extension list. See the discussion in Appendix A about the DEFAULT setting to determine which extension AlphaXED assumes.

AlphaXED loads the file into memory and displays the beginning of the file on your screen. As with the new file, the cursor is at the top of the screen, and the last line is the status line. However, instead of asterisks, you see the first lines of the file. If the whole file fits on one screen, you'll see asterisks following the last line in your file.

As described in the previous section, depending on your XED.INI file settings, you may see a different screen display. It is also possible you see the last lines of an existing file instead of the beginning of the file.

Once your file is displayed, you can make changes, add new lines at the end, or just look at the file. How to do all of these things is described throughout this book. If you want technical information about the files AlphaXED can edit, see Appendix D.

USING ALPHAXED

AlphaXED has two "modes." "Edit mode" is where you add new text or change the existing text in your file. "Command mode" lets you enter commands to change or move around your file, view help information, leave AlphaXED, and so forth. AlphaXED also has an options menu that lets you change editing parameters. When in command mode, you see a prompt, >, at the cursor.

You switch between command mode and editing mode by pressing either MENU or ESC. Press the OPTION MENU key to go to the options menu, and ESC or MENU to return to edit mode.

Edit Mode

Edit mode lets you edit the text in your file. While you're in edit mode you can add new text to your file or change or remove existing text.

To add new text, type it. Each character you type appears at the cursor position, and the cursor moves to the next character. When you want to go to a new line or leave a line blank, press `RETURN`. At the end of the line, your typing may "wrap" to the next line, or you may have to press `RETURN`, depending on how the WRAP parameter is set (see Chapter 7).

To change existing text, you can type over it. There are also editing features to let you insert text in the middle of existing text, delete characters, words, lines, or entire sections of text, move text from one location to another, and so on. These features are described in Chapters 3 through 5.

Command Mode

When you're in command mode, you can enter AlphaXED commands to do such things as: search for a specific word or phrase in your file, see a list of the files in your account, copy another file into your file, leave AlphaXED, and many others.

When you're in command mode, the cursor appears next to the command prompt, `>`. To use a command, you type the command along with any parameters it requires, such as the word to search for if you use the SEARCH command, and press `RETURN`. Some commands leave you in command mode when they finish, others return you to your text or take you back to AMOS command level. You can press `CTRL/R` to recall the last command entered should you wish to execute it again. See Chapter 8 for more information on command mode.

The HELP Command

Displays information explaining various AlphaXED features without leaving your current file. To see a list of the topics available with HELP, in command mode, enter:

```
>HELP RETURN
```

You see a list of help topics available. To see help information on any of these topics, type HELP, the topic you want, and press `RETURN`.

One of HELP's options deserves special mention. You can use HELP to see a list of all the features and options available in AlphaXED. To do so, type:

```
>HELP MENU RETURN
```

This displays all the screen editing features available in editing mode. Successive screens list all the commands and options you can use in command mode.

The SAVE Command

As you work in an AlphaXED file it's a good idea to use the SAVE command from time to time. SAVE copies the file you are working with from memory to the disk without exiting AlphaXED. Use SAVE from command mode by entering:

```
>SAVE RETURN
```

If your file is a large one, you see a series of dots letting you know it is being written to disk. SAVE doesn't affect the cursor location in your file. It creates or updates a backup file (.BAK) which is described in the discussion about the FINISH command below.

The Option Menu

The option menu lets you change parameters that affect the editing of your document. To go to the options menu, press the OPTION MENU key. ESC or MENU returns you to your text. See Chapter 7 for details on the things you can change.

LEAVING ALPHAXED

As you enter text into a file, or edit existing text, your input is stored in memory (temporary storage). When you finish with an editing session, you need to tell AlphaXED to write your completed file to the disk for permanent storage. Five commands letting you exit from AlphaXED have different results:

FINISH	Write file to disk and exit.
GO	Write file to disk and process GO instructions.
RECESS	Save editing environment, write file to disk, and exit.
QUIT	Exit without writing to disk, verify if file was changed.
Q!	Exit without writing to disk, without verification.

The FINISH Command

FINISH copies the file currently in memory, called the source file, to the disk. This command also creates a backup file, which is a copy of the file as it appeared the last time it was saved to the disk. The backup file has the same name as the source file, with a .BAK extension. Once both the source and backup files are recorded, AlphaXED returns to AMOS. To use FINISH, from command mode enter:

```
>FINISH RETURN
```

Or, abbreviate the command by entering F.

The GO Command

GO does two things: it writes the source file to the disk (and creates a .BAK file) and then processes the file according to instructions in your XED.INI file (or executes the default actions for certain file extensions). For example, a GO command may compile a BASIC program or assemble a .M68 source. You can do a series of commands with GO—see Appendix A for details. To use the GO command, from command mode type:

```
>GO RETURN
```

The GO command can pass switches or data to a program, or parameters to a command file. For example:

```
>G INVEN.TXT RETURN
```

Say your GO command definition for the type of file you are in calls an AlphaBASIC PLUS program—the above command sends the file INVEN.TXT to that program for processing.



An unsuccessful SEARCH or GLOBAL operation leaves characters in command mode which will be picked up by GO if you do not clear the prompt line first.

The QUIT Command

QUIT abandons any changes you have made to your file since the last time it was saved to disk. If the file has been modified, AlphaXED asks you to confirm you want to abandon your changes. To use QUIT, from command mode enter:

```
>QUIT RETURN
```

Or, abbreviate the command by entering Q.

The Q! Command

Entering Q! in command mode exits you from AlphaXED, abandoning all editing changes made since the last time the file was written to the disk.



Be sure you want to exit without changes before using Q!.

The RECESS Command

Sometimes you set up special editing parameters that affect your editing session (see Chapter 7 for more information). In some cases, it can take a bit of time to change the default settings to set up a specific environment—RECESS saves the file to disk, exits, and saves all your current editing parameters so they are the same the next time you edit the file. This includes:

- The cursor position.
- Options settings such as auto-ins char, auto-ins line, width, tab, etc.
- A capture sequence.
- Macro definitions.
- A marked block of text.

Exiting in this way creates a .JRL file 1 block long that stores the environment information. .JRL files caused by an interruption in the editing session are 20 or more blocks long.

XEDIT - EDIT A NEW FILE

The XEDIT command lets you end your current editing session and go straight to another. The format is:

```
XEDIT filespec
```

It finishes you out of your file and executes an "XED filespec" command, putting you directly into the next file.

CHAPTER 3





MOVING AROUND IN YOUR FILE



AlphaXED gives you various ways to move the cursor on one screen, and to move the screen display to other parts of your file. This chapter describes:

- Moving the cursor.
- Moving from screen to screen.
- Finding specific lines.
- Marking and returning to a location.
- Finding the last change you made.

MOVING THE CURSOR ON THE CURRENT SCREEN

When you work with an AlphaXED file, you need to move easily from one place to another on the screen. To delete a character, word, or line, or insert text, you must first move the cursor to the place where you want to make the change. The more easily you can move the cursor, the easier it is to make changes. To make this kind of editing easier, AlphaXED lets you move the cursor with these keys:



KEY NAME	PURPOSE
	Moves cursor right, character by character (to margin).
	Moves cursor left, character by character (to margin).
	Moves cursor up, line by line.
	Moves cursor down, line by line.

KEY NAME	PURPOSE
RETURN	Moves cursor to the beginning of the next line.
NEXT WORD¹	Moves cursor to the beginning of the next word.
PREV WORD¹	Moves cursor to the beginning of the previous word.
SHIFT/ 	Moves cursor to the beginning of the line.
SHIFT/ 	Moves cursor to the end of the line.
CENTER SCREEN	Centers cursor line on the screen.

¹ The behavior of NEXT and PREV WORD keys depends on a precise definition of a "word." See Appendix D for AlphaXED's definition of a "word."

MOVING FROM SCREEN TO SCREEN

When a file is too long to display on one screen, you need ways to see the parts of the file not currently displayed. The keys you can use to move from screen to screen in your file are:

KEY NAME	PURPOSE
NEXT SCREEN	Advances to the next screen of your file.
PREV SCREEN	Goes to the previous screen of your file.
HOME	Moves cursor to first line of file.
SHIFT/ 	Moves cursor to the first line of current screen.
SHIFT/ HOME	Moves cursor to last line of file.
SHIFT/ 	Moves cursor to last line of current screen.

MOVING TO A PARTICULAR LINE

The line number where the cursor currently rests is displayed on the bottom status line of your screen. You can instruct AlphaXED to move the cursor to a particular line number in your file with the LINE command. The format for the LINE command is:

```
LINE {+/-}number
```

Where {+/-} represents an optional symbol to add or subtract and number represents a whole number. This example moves the cursor to line 5 in your file:

```
>LINE 5 RETURN
```

By including a plus or minus sign before the number, you can move the cursor that number of lines forward (+) or backward (-) from the present location. This example moves the cursor forward three lines:

```
>LINE +3 RETURN
```

This example moves the cursor backward seven lines:

```
>LINE -7 RETURN
```

REMEMBERING THE CURSOR LOCATION

AlphaXED lets you mark the current cursor location, move to another part of the file, then return to the location you marked. This feature acts much like a book mark in your file: saving your place so you don't have to page through screens of text to find where you left off.

You mark locations with the LABEL LINE function key and return to them by using the LABEL GOTO function key.

You must specify a number from 0 to 9 to refer to the label. When you press LABEL LINE, the next keystroke is reserved for the number. In this way, you can mark and go to any of ten places in your file.

Labelled lines remain in effect until you exit the file, re-define the label number, or erase the labelled line.

To go to a labelled location, press the LABEL GOTO key. A menu appears at the bottom of your screen listing the labelled locations. Enter the number of the location you wish to go to.

If you press LABEL LINE or LABEL GOTO by accident, you can press ESC to exit from the function.

THE SPLIT SCREEN FEATURE

The SPLIT command causes the screen to be split horizontally into two windows. Each window shows an area of the current file. The SWAP WINDOW function key toggles the cursor between the windows. This feature lets you look at one part of your file while editing another part, or to mark and move or copy blocks from one window to the other. UNSPLIT causes the screen to return to one window.



A number of commands also cause the screen to return to one window (such as FINISH, QUIT, etc). Split screens cannot be maintained by RECESSing the file.

THE PREVIOUS CHANGE FEATURE

Another AlphaXED feature continually keeps track of the last place where you made a change—deleting a line, adding a character, and the like.

If you leave the line where you've made a change to edit elsewhere in your file, you can return to where you were working by pressing the PREV CHG function key. PREV CHG moves the cursor back to the same column and line number where you last made a change.

CHAPTER 4

TEXT EDITING FEATURES

In AlphaXED it is an easy process to add, delete and re-arrange what you write. This chapter describes the basic editing features you use to work with your file:

- Inserting and deleting text.
- Restoring deleted lines.
- Re-arranging text.

INSERTING CHARACTERS

There are two principle ways to insert characters in your text: with the CHAR INS key or using character insert mode.

Character Insert Key

The CHAR INS key creates a blank space at the cursor location by moving the entire text line from the cursor to the end of the line over one character. Typically, if you position the cursor at the beginning of an existing sentence and begin to type, the old characters are replaced by the new ones. If you want to insert one or two characters somewhere in an existing line, you can use CHAR INS to create the blank spaces, then type the new characters.

Character Insert Mode

When you want to insert several characters or words within a line, automatic character insert mode is more convenient than using the CHAR INS key. Some people prefer to always use insert mode.

Pressing AUTO INS CHAR lets you switch character-insert mode on or off. When insert mode is on, you may enter new characters without overwriting existing ones. As you type, existing text shifts to the right, continually making room for the new characters on the line. Using **RUBOUT** in character insert mode deletes the previous character, as usual, but also shifts text on the right of the cursor back to the left to fill the gap.

When you use AUTO INS CHAR, the terminal beeps and the letter Q appears on the status line to remind you character-insert mode is on. To leave character-insert mode, press AUTO INS CHAR again. The terminal beeps and the Q disappears.



The maximum line length AlphaXED allows is 510 characters. It will not let you type or append past the 510th character.

Inserting a Word

The WORD INS key causes a temporary character insert mode, so you can insert characters in the middle of a line until you press SPACE BAR, `TAB`, or `RETURN`. If you only have to insert one word, this is faster than character insert mode, since it "turns off."

INSERTING LINES

You can insert lines in your file using the LINE INS key or automatic line insert mode. Each of these methods is described below.

The LINE INS Key

The LINE INS key causes everything to the right of the cursor on the line, and every line below, to move down one line, without affecting text above or to the left of the cursor.

Automatic Line Insert Mode

You can insert lines without having to use the LINE INS key to make blank lines. When you activate line insert mode with the AUTO INS LINE key, a blank line appears every time you press `RETURN`. Text below the line you are entering moves down one line when you press `RETURN`, a blank line is created between the line the cursor is on and the subsequent text, and the cursor moves to the beginning of the blank line. When you press AUTO INS LINE, the terminal beeps and displays the letter I on the status line. To turn off line insert mode, press AUTO INS LINE again. Line insert mode won't work if INSERT is OFF.

DELETING CHARACTERS

There are three ways to delete characters from your AlphaXED file: typing over them, using the CHAR DEL key, or using `RUBOUT`. You can type over characters if character insert is not on—this is called "overwriting." Using the CHAR DEL key deletes the character where the cursor rests, and moves the rest of the line one space to the left.

Pressing **RUBOUT** once moves the cursor back one space and deletes any character it encounters. When you use **RUBOUT**, text to the right of the cursor does not shift and blank space is left unless character insert mode is on.

Deleting a Word

Using the WORD DEL key deletes characters from the cursor position to the beginning of the next word, and contracts the entire line to fill in the gap. If the cursor is at the beginning of a word, WORD DEL deletes the word it is on and any blanks following it. If you are in a field of blanks, WORD DEL erases all the blanks in the field to the right of the cursor. If the cursor is in the middle of a word, WORD DEL deletes the rest of the word. Because part of the word remains, blanks are not removed. The WORD DEL key does not delete tab characters. And, if you delete a word which has tabs and text following it, that text is unaffected by the delete and remains in the same column as before. To delete a tab, use **RUBOUT** or the CHAR DEL key. AlphaXED has a specific definition for what a word is; see Appendix D for details.

Deleting Lines

There are two ways to delete lines in AlphaXED. One deletes the entire line, the other deletes only part of a line. To delete an entire line of text, move the cursor to the line you want deleted and press the LINE DEL key (or **CTRL/Z**). The line is deleted and subsequent text moves up to fill the gap. To delete part of a line, position the cursor where you want deleting to begin and use **CTRL/Y**. **CTRL/Y** deletes from the cursor to the end of the line, without shifting any text to fill the gap. To delete a block of text, mark the block using the MARK BLOCK function key (or **CTRL/P**). Then press the BLOCK DEL key.

Restoring Deleted Text

AlphaXED lets you recover a deleted line or block of text by using the RESTORE function key. The RESTORE feature is like a small "waste basket." You can only restore the most recent line or text block deleted with LINE DEL or BLOCK DEL. The line or block is restored where the line or block was.

RE-ARRANGING TEXT

You may re-arrange text in a number of ways. The next sections describe:

- Breaking and joining lines
- Centering a line
- Formatting paragraphs

Breaking and Joining Lines

To break a line, position the cursor on the character or column in the line where you want the break to appear and press the LINE INS key. The text to the right of the cursor drops down to the next line and all subsequent text moves down to create room.

To join a line, position the cursor anywhere on the line you want to join and press **CTRL/O**. AlphaXED moves the cursor to the end of the line and adds the line of text below the cursor onto the end of the line where the cursor is. All lines below the cursor move up to fill the gap. If the new joined line would be longer than 510 characters, AlphaXED does not attempt to join the line; instead, an error message appears.

Centering a Line

You can position a line of text between the left and right columns of your file by pressing the CENTER LINE function key. This key centers the line between the column 0 on the screen and the line length specified by the WIDTH command. See Chapter 7 for more information about WIDTH. Any blank spaces before or after the text are ignored. The centering feature is also available from command mode. To use it this way, position the cursor on the line you want to center, go to command mode and enter:

```
>CENTER RETURN
```

Formatting Paragraphs

When you press the **FORMAT** function key, AlphaXED begins at the cursor position and takes a set of contiguous lines up to a blank line or a line starting with a blank, TAB or carriage return, and fills in the lines as near to the margins as will fit. Formatting begins on the line where the cursor rests and arranges lines so no line is longer than the maximum line length set by the WIDTH setting. See Chapter 7 for more about WIDTH. The formatting feature is also available from command mode—position the cursor on the line where you want formatting to begin and enter:

```
>FORMAT RETURN
```

REFRESHING THE SCREEN

You can cause your terminal screen to be re-displayed without changing the cursor's current position. This is useful if something outside AlphaXED sends a message to your terminal, disrupting your AlphaXED screen display. To do so, press these keys at the same time: **CTRL/SHIFT** and the atsign, @.

CHAPTER 5

BLOCK EDITING FEATURES

This chapter describes how to work with large portions of your file, not just characters, words and lines. You'll find information for:

- Working with blocks of text
- Transferring text between files, or between memory and disk
- Using prototype file modules

WORKING WITH BLOCKS OF TEXT

AlphaXED makes it easy for you to move, copy or delete blocks of text—lines, paragraphs, or larger sections of your file. The next sections describe:

- Marking Text
- Clearing Marks
- Copying Marked Text
- Deleting Marked Text
- Moving Marked Text

Marking Text

Blocks of text are made up of contiguous whole lines in your file. The first step in working with a block of text is to "mark" the block using the MARK BLOCK function key.

Place the cursor on the first line of your block, and press the MARK BLOCK key. Then move the cursor to the last line of the block and press MARK BLOCK again. On terminals capable of displaying in reduced intensity, the text you mark becomes shaded. If the terminal lacks this capability, the text is still marked although it appears the same as unmarked text. The letter "M" appears on the status line when text is marked.

Once text is marked you can delete, copy or move it. If you choose to move or copy the marked block, first you must move the cursor out of the marked shaded area because you cannot move or copy a block on top of itself.

Marking text is also used with the SBLK command to do search and replace operations on only a selected block of text in your file. Marked text is also used with the UNYANK command described later in this chapter.

Clearing Marks

It's good practice to clear marks after you are through working with the marked text. This keeps you from accidentally working with a part of your file you are already finished with. When you clear a block, the "M" disappears from the status line. There are four ways to remove marks you make with the MARK BLOCK key:

1. When you move or delete the block of text you marked
2. When you press the CLEAR BLOCK function key
3. When you use the COPYC (copy and clear) command
4. When you go to command mode and enter: **CLEAR** (RETURN)

Copying Text

Once you mark a block, you can copy it to another place in your text by moving the cursor to the desired location and pressing the BLOCK COPY function key. When you do, the block of text is copied to the new location, without being deleted at the original position. The duplicate text is inserted, and does not overwrite existing text.

When you copy text, the block marks are not removed, in case you want to copy the block to another place in your file. If you are through working with this text, be sure to clear the block marks before continuing.

You can do the same operation from command mode. Enter: **COPY** (RETURN).

Copying and Clearing Text

The COPYC command works like COPY, except that it also clears the block markers after doing the copy. From command mode enter: **COPYC** (RETURN).

The SHIFT Command

The SHIFT command moves a marked block of text to the right or left by a specified number of columns, or aligns the marked text on a specified column by adding or taking out leading blanks and tabs. The part of each marked line from the first non-blank character is shifted (after the shift is done, the cursor is positioned at the top of the previously marked block). You cannot SHIFT a block to the left of column zero, or so the line becomes longer than 510 characters. The format for SHIFT is:

```
SHIFT mode number-of-spaces
```

where mode is one of three characters:

Character	Meaning
<	Shift the marked block to the left
>	Shift the marked block to the right
=	Align the marked block on the numbered column

and number-of-spaces is a number in the range 1 to 510.

To use SHIFT, press the MARK BLOCK key to mark the block of text you want to move. Go to command mode and enter the command. For example, if you want to shift a marked block 5 spaces to the right, enter:

```
>SHIFT >5 RETURN
```

Once a shift number has been used with < or >, you can use the BLOCK SHIFT function key to shift a block of text that number of spaces. If no number is defined, the BLOCK SHIFT key does not move the block.



AlphaXED uses TABs when shifting more than 4 spaces.

Deleting Text

You can delete marked text by using the BLOCK DEL function key. AlphaXED deletes the block of text along with the block marks, and fills in the resulting gap by bringing up any text following the deleted block. The "M" disappears from the status line. You can do the same delete operation with a command. From command mode enter:

```
>DELETE RETURN
```

If you accidentally delete a line you want to keep, press the RESTORE key and, if nothing else has been deleted, the line is restored. The line is restored at the current cursor location, however, which may not be the place it was deleted from.

Moving Text

To relocate a block of text within your document, mark the block using MARK BLOCK. Then move the cursor to the place in your file you want to move the block to, and press the BLOCK MOVE function key.

The text is relocated from the original position to the new one. Text following the original position moves up to fill the gap; text following the new position moves down to make room. "M" disappears from the status line. You can do the same move operation with a command. From command mode enter: **MOVE** .

TRANSFERRING TEXT BETWEEN FILES

Besides deleting, copying, and moving blocks of text within a single file, AlphaXED can transfer text from one file to another, saving you unnecessary retyping. The commands are described below.

Moving Text Out of Your File

UNYANK copies a marked block of text from the current file to a new file you create for the marked text block. Here are the steps:

1. Use the MARK BLOCK key to mark the text you want to duplicate in another file.
2. Press or to go to command mode.
3. Enter UNYANK followed by the file specification and press .

You can assign a one to six character file name to select a file for the block of text being transferred. You can include a file extension; if you don't, the new file's extension is the same as the file you are currently editing.

For example, to transfer a block of text from the current file to a new file you want to name TEMP.TXT, mark the text with MARK BLOCK, go to command mode, and enter:

```
>UNYANK TEMP.TXT 
```

If your account already contains a file with the name you specify in the UNYANK command, AlphaXED asks you:

```
[file name] already exists. Overwrite? (Y-N)
```


If you enter a Y, the marked block overwrites the file that exists on the disk (be careful you don't overwrite a file you need). If you enter N, you return to the text, and no UNYANK is done.

You can use UNYANK to copy a file to another device by including the device name and account number as the file specification in the command. For instance, suppose you want to UNYANK TEMP.TXT from the current file and send it to DSK2:[20,4]:

```
>U DSK2:TEMP.TXT[20,4] 
```

However, the account you specify must have the same project number as the one you are logged into; otherwise, you get a "protection violation" error. In the above example, you must be logged onto DSK2:, somewhere in the [20,n] account series—[20,1], [20,2], [20,3], etc.

If you want to copy to or from a device other than a "DSK" device, the driver for the device to which you are copying (for example, MIN0:) should be loaded into user or system memory before you use AlphaXED.

If the file name consists entirely of numbers, you must specify an extension, otherwise, AlphaXED assumes you want to UNYANK portions of the file to or from the disk as described later in this chapter.

If the device driver cannot be loaded, AlphaXED displays an error message. For information about device drivers, see your System Operator.

Moving Text Into Your File

When you need to copy text from another file into the file you are working in, use the YANK command. Here are the steps:

1. Move the cursor to the point in the current file where you want the transferred text to appear.
2. Go to command mode.
3. Enter YANK followed by the file specification for the file you want to copy in, and press .

If the file name consists entirely of numbers, you must specify an extension; otherwise, AlphaXED assumes you want to YANK portions of the file to or from the disk as described in the next section.

For example, to copy TEMP.M68 into the current file, put the cursor where you want the new text to begin, go to command mode, and enter:

```
>YANK TEMP.M68 
```

The text of TEMP.M68 is copied into the current file beginning at the cursor location, and none of your existing text is overwritten.

If you omit the extension, AlphaXED assumes the same extension as the file you are currently editing.

If you want to yank in a file from another device and account, you can include the device name and account number in the command. For example, the command:

```
>YANK SMD2:TEMP.TXT[20,4] 
```

copies the file TEMP.M68 from SMD2:[20,4] to the current file.

In order for this to work, however, the driver for the device from which you are yanking (SMD2: in this case) must be loaded into user or system memory before using AlphaXED. If not, AlphaXED displays an error message. For information on device drivers, see your System Operator.

CUTTING AND PASTING

You can move text from one file to another by using YANK and UNYANK and an AlphaXED feature that lets you edit two files at the same time. Edit the file you want to transfer from, mark the block you want to move, and use UNYANK to move the block to a junk file. For example:

```
>UNYANK JUNK.TXT 
```

Now go to command mode and XED the file you want to transfer to. Go to the point in the file you want to move the block to, and use YANK to bring in the JUNK.TXT file. Remember to FINISH from the new file to preserve your changes.

TRANSFERRING TEXT TO AND FROM THE DISK

The YANK and UNYANK commands are also useful in two other cases:

1. If your memory partition is full when you call up the file.
2. If you run out of memory while typing.

Suppose you want to edit a file named TEST.BP, which is too large to fit completely into memory. When you use the XED command, you see:

```
Insufficient space to complete transfer!
```

This means AlphaXED could only load part of the file into memory for editing. Suppose the first three-quarters of the file is loaded into memory, but you want to inspect the last quarter of the file. To access the unloaded portion, you must copy the first part of the file to the disk, delete it from memory, and load the remaining part.

If you use UNYANK without a filename, it copies all the text currently in memory to the disk, then deletes it from memory. As the copy progresses, AlphaXED displays a period on the screen for each 64 lines of text transferred. When the prompt re-appears, use YANK to load more of the file from the disk into memory.

If you don't want to delete all of what is in memory, you can specify a number of lines with UNYANK and YANK. For example, suppose you want to copy to disk and delete from memory only the first 100 lines of the file:

```
>UNYANK 100 
```

The first 100 lines are deleted from memory, making room for you to load 100 lines at the end of the file. To transfer 100 new lines in from the disk, enter:

```
>YANK 100 
```

If you are entering text at the end of a file and/or you fill up the memory partition, the terminal beeps to let you know the partition is full. To continue entering text, you must use UNYANK, as explained above, to delete from memory part of the text currently filling the partition. You may then return to the end of the file to continue entering text.

YANKING IN A PROGRAM MODULE

Pressing the YANK MODULE function key displays a menu of module names. By pressing a letter key defined on this menu, you can yank in the desired file to the current cursor location. A module can be any file that can be edited using AlphaXED.

You can design your own menu by using the MODULE command in your XED.INI file (see Appendix A). The default list of menu items is:

Select a module:

- A. Module Header (M68)
- B. Module Header (BASIC)
- C. Program Skeleton (M68)
- D. Program Skeleton (BASIC)

CHAPTER 6

KEYSTROKE JOURNALING

This chapter discusses:

- What is keystroke journaling?
- How to turn journaling on and off
- Restoring a journal

XED AND COMPUTER MEMORY

When you create a file, whatever you type on the keyboard is recorded in memory. If you tell XED you want to edit a file currently on a permanent storage device, XED finds the file and copies it into memory for editing. If your computer has a power failure or a system hang, and you have not yet used SAVE, XEDIT, RECESS, or FINISH, the changes since the last copy to disk are at least partially lost. The copy before changes were made is still on the disk.

WHAT IS KEYSTROKE JOURNALING?

AlphaXED has a feature called keystroke journaling. This function saves all your keystrokes to the disk. This means that in the event of a system crash or other problem, you can recover your work.

Every time you press a key, XED automatically saves that instruction in a special journal file. This file holds approximately 10,000 keystrokes, and when it fills up, the following message displays on the bottom status line:

```
%JOURNALING suspended - SAVE to resume
```

At this point, you must save your work; otherwise, XED stops recording your keystrokes. After you do so, the journal file is purged and journaling is reenabled.

To create the journal file, XED initially attempts to allocate a 40 block random file. If your disk does not have enough space available, then XED tries to allocate 20 blocks. If it cannot do that, it disables the journaling feature.

The journal file has a .JRL extension. It is erased whenever a QUIT, SAVE, XEDIT, or FINISH command is used (in the case of SAVE, a new file begins with your next keystroke).

The first part of the journal file stores the current parameters of your editing session so it can accurately restore the keystrokes. When you exit using RECESS, this first part is retained in the .JRL file even though the rest of the (already saved) keystrokes are erased. In this way, you can recall the file with the same editing parameters as before.



Because AlphaXED creates a journal file based on the name of the file you are editing, problems could result if you have two editable files in the same account with the same name (such as ACOUNT.TXT and ACOUNT.BP). If a journal file were created for ACOUNT.TXT, and you edited ACOUNT.BP, AlphaXED would ask you if you wanted to restore the .JRL file. This could lead to the changes being "restored" to the wrong file.

TURNING JOURNALING ON AND OFF

Your XED.INI file can have a JOURNAL = ON/OFF command in it to set whether journaling is active or not. You may also specify how many keystrokes will occur between each save. Keystroke journaling can be turned off by adding the /NJ switch when calling up XED. For example:

```
XED MYFILE/NJ 
```

WHAT HAPPENS AFTER THE EDITING IS INTERRUPTED?

For some reason you couldn't properly exit your AlphaXED file. Once the computer is rebooted or the problem fixed, what then? The .JRL file for the file you were editing still exists on the disk. When you call up your source file with XED, it asks you if you want to restore the journal file, and displays the options you have. You can:

1. Restore the keystrokes you lost (you can stop any time)
2. Erase the journal file
3. Leave the journal file intact and exit to AMOS

Restoring a Journal File

If you want to restore your keystrokes, enter Y in response to AlphaXED's question. The journal file is "replayed," and you see the keystrokes appearing on your screen as the file is updated. When the file is done, you can resume editing.

If you don't want to see all the keystrokes repeated on your screen, call up XED with the /ND switch. For example:

```
XED MYFILE/ND(RETURN)
```

You may also turn off the keystroke display by specifying NODISPLAY in your XED.INI file. AlphaXED still asks you whether to restore the journal file or not, but if you answer YES, XED displays the number of blocks it is updating, but doesn't show the keystrokes. If the journal file has a lot of editing changes in it, this method is faster.

It is a good idea to SAVE the file after restoring the journal so you can start with a fresh journal file.

You can use ^(CTRL)/^(C) to halt the journal restore process. This lets you begin the restore process and halt the keystrokes at any time you wish. This is only useful if the keystrokes you want to keep were done before keystrokes you don't wish to keep.

Erasing a Journal File

If you don't want to keep the journal file, enter N and AlphaXED erases the file. If you have journaling on, a fresh journal file is created for further editing.

Exiting and Retaining the Journal File

Entering Q in response to the question exits you to AMOS without changing the journal file. Maybe you didn't realize there was a journal file for the file you entered—if somebody else made the changes, you might want to find out if they are important changes before editing the file.

CHAPTER 7

THE OPTION MENU

AlphaXED's option menu lets you change editing parameters easily. The options you can set at this menu are mostly the same ones you can set in the XED.INI file (see Appendix A), and affect how your editing goes. By customizing these parameters, you can make your editing session easiest for the file you are editing. This chapter discusses:

- Calling the option menu and returning
- Changing parameters
- The options you can set

CALLING THE OPTION MENU AND RETURNING

To call up the option menu, press the OPTION MENU function key. When you are done changing the menu, press **MENU** or **ESC** to return to where you were.

CHANGING PARAMETERS

There are two types of Parameters on the option menu: Boolean (ON/OFF) and Non-boolean (which take a value). To change a Boolean parameter, use the arrow keys to move the cursor to the parameter you wish to change, and press the SPACE BAR until the parameter is set the way you wish it to be.

To change a Non-boolean parameter, use the arrow keys to move the cursor to the parameter you wish to change, and enter the value you want set. The option menu displays instructions at the bottom of the screen to help you.

SEARCH AND REPLACE OPTIONS

BACKWARD

When BACKWARD is ON, the SEARCH or REPLACE commands search backwards from the end of the file for the string (NEXT searches backwards from current cursor position). Multi-character wildcards are not supported in backward searches, and TOKEN, COMPRESS and SEARCHFOLD do not affect backward searches.

COMPRESS

When COMPRESS is ON (the default), the SEARCH or REPLACE commands ignore extra spaces or tabs in the text when looking for a string. For example, if you SEARCH for:

```
The third volume
```

and the text in your file is:

```
The          third volume
```

AlphaXED considers it as a match despite the spaces between "the" and "third." It also finds the phrase if it spans two different lines in the text.

If COMPRESS is OFF, spaces, tabs and/or control characters are taken into account to identify a match. In the preceding example, AlphaXED would not consider the text with blank spaces a match for what you specified.

SBLK

SBLK tells AlphaXED whether to do search and replace operations on a block of text you mark or on your whole file. When SBLK is ON, the SEARCH, REPLACE, and GLOBAL commands look for the specified string only in a marked block of text. If no block is marked, AlphaXED tells you so. When SBLK is OFF (the default), the SEARCH, REPLACE, and GLOBAL commands cause AlphaXED to look for the string throughout the file.

SEARCHFOLD

SEARCHFOLD tells AlphaXED to consider or ignore whether or not letters are upper or lower case in its search for a string. When SEARCHFOLD is ON (the default), searching/replacing commands ignore the difference between upper and lower case letters when matching the string you specify with the strings in the file. For example, if you use SEARCH to locate the word: "Text," AlphaXED considers "Text," "text" and "TEXT" as valid matches.

If SEARCHFOLD is OFF, the only valid match would be the word with the same use of upper and lower case. In the example, only "Text" would be a valid match for "Text".

A convenient feature when SEARCHFOLD is ON is brought out when you want to replace one word or string with a different word or string. For example, suppose you want to replace every instance of "print" in a file with the word, "display." When SEARCHFOLD is ON, AlphaXED finds all instances of the string, whether characters are upper or lower case. If the word being replaced begins with a capital letter or is all upper case, the word replacing takes the same format. In our example, "print" is replaced with "display," "Print" with "Display," and "PRINT" with "DISPLAY."

TOKEN

When TOKEN is ON, AlphaXED identifies a match for any search or replace operation when both of these conditions are met:

1. The found string begins with a non-alphanumeric character, or is preceded by a non-alphanumeric character, and
2. The found string ends with a non-alphanumeric character, or is followed by a non-alphanumeric character.

This lets you search for strings bounded by special characters, such as control characters. For example, suppose you wanted to find each time you used the pronoun I in your file. If you search for the letter I, AlphaXED finds each I, including those in other words containing the letter I. However, if TOKEN is ON from command mode before the search, AlphaXED finds only the occurrences where I is isolated. The default is OFF.

WILDCARD

With wildcard symbols, AlphaXED gives you a way to search for strings that are alike but not necessarily identical. A wildcard symbol can represent one or more characters in a string, so you don't have to limit the string by identifying the specific character(s). The wildcard characters default to:

- | | |
|---|-----------------------------------|
| ? | Represents any one character |
| * | Represents one or more characters |

You can choose any symbols you like to serve as wildcard characters by specifying them either in XED.INI or in the option menu. Wildcarding affects search and replace operations. On the wildcard line, the symbol for single characters appears first and the symbol for multiple characters appears second. For example, if you enter:

%@

the % sign and the @ sign become the wildcard symbols. Because it was entered first, the % sign stands for any one character and the @ sign represents the multiple character wildcard.

To show how wildcards affect a search of your file, take this example which instructs AlphaXED to look for all parentheses containing two characters:

```
>SEARCH (%%) RETURN
```

The following text in your file would be considered suitable matches:

```
(RO)
(AB)
(+N)
```

If you were to use one @ symbol in place of the two percent signs, it instructs AlphaXED to look for all parentheses containing one or more characters:

```
>SEARCH (@) RETURN
```

```
(RO)
(STOCK)
(+N)
(this procedure is of great use)
```

If you need to look for the symbols you've assigned as wildcard characters, set the wildcards to something new.



Be careful when using wildcards with GLOBAL. Because of the scope of a wildcard, you could make changes you do not want and/or get unexpected results. See Appendix D for a complete technical explanation regarding wildcard matches and replacements.

GENERAL OPTIONS

CHARINS

Turns automatic character insert mode ON or OFF. See Chapter 4.

CONVERT

Defines the type of numeric conversion done by the CONVERT function key. The format is:

```
CONVERT <type-to-change><type-to-change-to>
```

The codes are:

O	Octal
D	Decimal
H	Hexadecimal
F	Floating point

For example:

```
CONVERT DF
```

causes the CONVERT function key to convert a number from decimal to floating point.

To convert a number, place the cursor on the first character of the number and press the CONVERT key. All numeric characters from the cursor up to a blank, space, tab, or non-numeric character are converted to the new number base. If you put the cursor on a character not in the defined character base, an error message appears.

EOLN

Defines the character that defines the end-of-line for macro definitions and search/replace operations. Enter the character you wish to have indicate an end-of-line. The default is ` (a backquote). For macro definitions and search/replace operations, you must have a symbol to represent the carriage return that ends a line (since `RETURN` indicates the end of the macro or search).

INDENT

INDENT is designed for use with structured languages like AlphaPASCAL, and makes it easier to edit programs with indented blocks of text.

When INDENT is ON, `RETURN` causes the cursor to move to the first character of the next line, regardless of the first character's column position—which may or may not be column zero.

Likewise, pressing `SHIFT/←` to move the cursor to the beginning of the line causes the cursor to move to the first character of the current line instead of to the first column. Also, when you press `RETURN` at the end of your file, it moves the cursor to the next line and indents the same number of spaces as the line above. If this is not the correct number of spaces to indent the current line, you can move the cursor forward with the SPACE BAR or `TAB`, or move the cursor backward by erasing spaces with `RUBOUT`. The default value is OFF.

MARGIN

MARGIN defines the column at which the left margin of the screen display begins. This is useful when you have lines of text extending beyond the number of character-spaces displayable on the screen. To view those lines, give the margin parameter a higher value. This moves the screen "window" to the right.

For example, suppose you have lines of text 90 characters long and your terminal screen can display only 78 at one time. An easy way to see the last 12 characters is to change the left margin to column 12 or greater.

Using the MARGIN command only sets the AlphaXED display margin; it does not affect the margin of printed text.

MODEM

Set MODEM ON if you are using AlphaXED over a modem—AlphaXED then operates at a low baud rate. This may affect your screen in minor ways, including suppressing full screen refreshes. The default is OFF, unless your computer's baud rate is less than 2400, in which case it defaults to ON.

MOUSE

MOUSE affects how the cursor moves when you press `RETURN`, `↓`, or `↑`. When MOUSE is OFF, `RETURN` moves the cursor to column 0 of the next line, and `↓` or `↑` move the cursor up or down one column—or to the last column if the line above or below is shorter than the cursor position.

When MOUSE is ON, `RETURN` moves the cursor down one line, or to the last column if the line below is shorter than the cursor position (like `↓` does if MOUSE is OFF). `↓` does the same, but it "remembers" the cursor position—if it comes to a line shorter than the cursor position, it goes to the end of that line, but when it goes to the next line that is again as long as or longer than the cursor position, it goes back to the remembered position. This is useful if most of your program is in specific columns, and you mainly want to work in that column. MOUSE may be set in XED.INI also.

If INSERT is ON, pressing `RETURN` creates a new line,

TAB

TAB defines the number of spaces (from 1 to 10) `TAB` inserts into your text when pressed. The default TAB settings are:

LANGUAGES	TAB SPACING
Pascal, BASIC, BASIC PLUS, Fortran, C	5
Cobol	7
M68, all others	8

These defaults only apply if TAB is not defined in XED.INI or on the option menu.



If you set TAB to something less than 8, the characters inserted in your file when you press `TAB` are spaces, not a TAB character. If set to 9 or 10, it is a tab character plus one or two spaces. The actual width of the tab character can be changed in the XED.INI file (see Appendix A).

WIDTH

The column where word wrap occurs (if wrap is on) in your file is defined by the WIDTH number. The first column on the screen is 0, so to set an 80 column wrap, set width to 79 (this is the default). WIDTH affects four other settings or commands: MARGIN, FORMAT, WRAP, and CENTER.

WRAP

The WRAP feature lets you type without having to watch the screen to determine when you should press `RETURN`. When ON, WRAP causes a carriage return whenever the cursor reaches the maximum line length as defined by the WIDTH parameter, described in the next section. With the carriage return, AlphaXED creates a blank line, and the cursor moves to the beginning of the new line.

If only part of a word has been typed when the cursor reaches the maximum line length, all characters back to the last blank space or tab stop—all characters of the word—are transferred to the new line created by AlphaXED.

If WRAP is OFF (the default setting), you must press `RETURN` at the end of a line to go to the next line.

ENTRY MODE OPTIONS

COLUMN

COLUMN sets the screen column where you want software code comments to begin. Entry mode must be on for this command to work.

The default setting is 40 for all program files except AlphaBASIC (.BAS) and AlphaBASIC PLUS (.BP) files, for which 56 is the default. To have comments begin at a setting other than the default, supply the command with the number.

COMMA

The comma command works only in entry mode. When FIELD is ON, and the next-field character is a space, pressing the SPACE BAR in a data field enters a blank if COMMA is ON and the previous character is a comma. If COMMA is OFF (the default setting), pressing the SPACE BAR advances the cursor to the next field.

COMMENT Character

AlphaXED inserts a comment character at the column position determined by the COLUMN parameter when the cursor reaches that column. The default comment character is semi-colon (;) for .M68 files, exclamation point (!) for .BAS and .BP files, and is undefined for other files. Entry must be ON for this command to work. If you want to change the comment character, enter the character you wish to use.

DELTA ON/OFF

If DELTA is ON, AlphaXED generates a new line number each time you type the FIELD character in column 0 (see discussion of FIELD, below). Entry and insert mode must be on for this command to work. When entry mode is on, DELTA is automatically ON if you are editing an AlphaBASIC (.BAS) or AlphaBASIC PLUS (.BP) file. The default if you are not in entry mode is OFF. For best results, keep in mind these hints:

- Number every line of the file.
- Maintain the numbers in order.
- The line numbering is in multiples of the number defined in DELTA on the option menu screen.
- When the field character is pressed in column 0, the number that appears is an increment of the number in the previous line. This can cause duplicate line numbers if you insert a new line between lines.

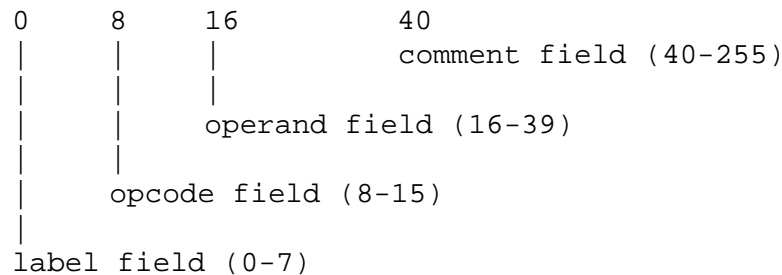
DELTA Increment

Defines the increment of the automatic line numbering scheme. For example, suppose you want program line numbers to appear in increments of 10—simply enter 10 in the DELTA space. The default is 5.

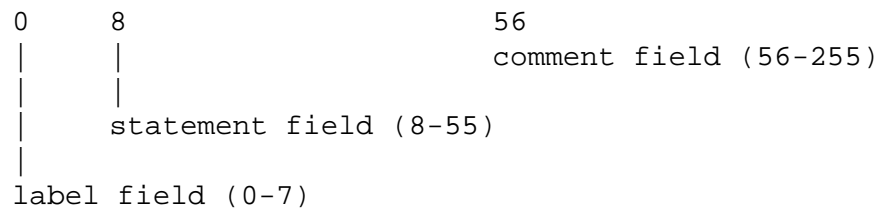
ENTRY

Entry mode provides editing features especially suited for writing software code. You can turn entry mode on from the option menu, or by pressing the AUTO INS LINE key in edit mode.

Entry mode parameters operate according to fields AlphaXED recognizes in the program line for program files. In the following diagram, the numbers show the default positions of the four fields recognized for assembly language (.M68) programs.



The default fields for BASIC (.BAS) and BASIC PLUS (.BP) programs are:



When entry mode is ON, an I appears on the status line. You can use the COMMENT, INSERT, SPACE, FIELD, FOLD, INDENT, and DELTA commands as editing features for writing software code. All characters you type appear in upper case unless you use FOLD to specify otherwise. You can turn off entry mode from the option menu or by pressing the AUTO INS LINE key again. The default setting is OFF.

FIELD Character

The FIELD character is used when both field and entry mode are ON, to move to the next programming field (see FIELD ON/OFF, below). The default field character is a space for .M68 files, TAB for AlphaBASIC and AlphaBASIC PLUS, and null for other files. To change the field character, enter the ASCII value of the character you want to use. See Appendix F for a list of the ASCII values for numbers and characters. For example, if you want the @ sign to be the field character, enter 64.

FIELD ON/OFF

FIELD is used with entry mode to let you move easily to the next programming field. If FIELD is ON, pressing a special keyboard character moves the cursor directly to the next field, as shown in the diagram of fields under "Entry," above. Entry mode must be on for this command to work. The default setting is ON.

If the cursor is in the middle of a line and you type the FIELD character (defined in FIELD Character, above), the cursor goes to the beginning of the next field. For example, in an .M68 file, if the cursor is at column 9 in the opcode field, pressing the field character moves the cursor to column 16, the beginning of the operand field.

Typing the FIELD character again moves the cursor to the beginning of the comment field. AlphaXED assumes you don't want to edit the comment character; if you do, simply backspace and do so. Once the cursor is in the comment field, typing the field character has no effect except for inserting the field character in the text if it is a printable character.

FOLD

When you are in entry mode, setting FOLD to ON causes all alphabetic characters you type to be upper-case, regardless of how you enter them from the keyboard. The default setting is ON. The FOLD setting doesn't affect comment text.

INSERT

When INSERT is ON, pressing **RETURN** on a blank line moves the cursor down one line, creating a new blank line as it does. The default setting is ON.

SPACE

If you want a space to be generated to the right of the comment character whenever a comment is typed, set SPACE to ON (the default setting). Entry mode must be on for this command to work.

CHAPTER 8

COMMAND MODE

This chapter discusses:

- What command mode is
- How to go to command mode
- Using AMOS commands

WHAT IS COMMAND MODE?

AlphaXED can do many editing functions right on your text screen when you use the keys on your keyboard. Other AlphaXED features let you do even more powerful editing operations. For these, you work from AlphaXED's command mode.

Command mode is a place to enter AlphaXED commands to do special editing functions. You can search for strings of characters, use AMOS commands, or set options (if you are more comfortable using command mode instead of the option menu, many of the options can also be set from command mode).

This chapter discusses some of the things you can do from command mode. The next chapter talks in depth about the search and replace functions.

CALLING UP COMMAND MODE

To call up command mode, press `[MENU]` or `[ESC]`. The top line on your screen is replaced by the command mode prompt, `>`. The following line is used to display errors or messages in command mode. The recognition of commands follows the sequence:

1. AMOS commands (preceded by ".")
2. Editing commands
3. Option commands

4. Macro commands

5. Macro file invocations

Any command not recognized as one of the above causes an error message, and returns you to the command prompt. The exact sequence is rarely significant, except in the case of macros—a loaded macro definition supercedes any macro file of the same name. Because macros come below editing commands and options, it is useless to define a macro with the name of an editing command or an option.

The prompt is where you enter commands. Some commands return you directly to your text, others return you to command mode. From command mode you can return to your text by pressing `[MENU]` or `[ESC]`.

The commands you can use in command mode are listed in Appendix C, and are explained in greater detail in various parts of this manual. The table below tells you where more information can be found:

TYPE OF COMMAND	PLACES FOUND
Editing commands	Chapters 2 and 9
Options	Chapter 7
Macro Features	Chapter 10
XED.INI commands	Appendix A

USING AMOS COMMANDS

From command mode you can use AMOS commands. This can be useful if you don't want to exit your editing session just to find out information. For example, you might want to find out the name of a file in your account. You can use AMOS's DIR command to display a directory listing without exiting AlphaXED. To use an AMOS command, type a period and the AMOS command. Some examples:

```
> .DIR *.LST [RETURN]
MYFILE.LST    4
PROG.LST     10
Total of 2 files in 14 blocks
```

```
> .TIME [RETURN]
01:15:45 PM
```

```
> .ERASE *.TMP RETURN
EXTRA.TMP
FARBO.TMP
Total of 2 files erased
```

Another useful AMOS command is TYPE, which displays a file.



There are some AMOS commands you should not use, such as MONTST, DSKANA, etc.—any command which could cause data corruption to your currently open file, or inconvenience other users. Programs that change the job environment, such as LOG, should also be avoided. Also, DO NOT erase the file you are currently editing.

USING EDITING PROGRAMS WITHIN XED

The ability to use AMOS commands lets you call editing programs such as AlphaXED, AlphaVUE, AlphaWRITE, etc. from within XED. You may be able to load more than one file (depending on the amount of memory in your partition). If you call the file you are currently in, it is opened for read only access (otherwise you could have a simultaneous update problem).

CHAPTER 9

SEARCHING FOR AND REPLACING TEXT

Two of the most useful features of command mode are the ability to search for strings of text within your document, and to replace strings with other strings. This chapter discusses:

- Parameters affecting how searches and replacements are done.
- The SEARCH command to look for text.
- The REPLACE command, to substitute new text for old, case by case.
- The GLOBAL command, to substitute new text for old, in all cases.
- Searching for balanced braces in programs.

To make editing easier, AlphaXED can quickly locate and change characters, words, or phrases—generically referred to as a "string"—in your text without requiring you to read the entire file. AlphaXED has a number of commands to work with strings of text in various ways. The string you select to find and/or replace may not exceed 78 characters. The commands discussed in this chapter can find multiple-word strings which are on more than one line.

SETTINGS AFFECTING SEARCH AND REPLACE

The commands COMPRESS, TOKEN, SEARCHFOLD, WILDCARD, and SBLK alter the way AlphaXED does search and replace operations (see Chapter 7 for a full explanation). When COMPRESS is on, it condenses all instances of multiple spaces, tabs, etc., into one space. This affects searches/replaces involving spaces. For example, if you enter:

```
>S Inventory'number      10.00 RETURN
```

because that is how the string appears in the file, the search is successful only if COMPRESS is OFF. Otherwise, the first space after `Inventory'number` in your search string matches all the five spaces between `Inventory'number` and `10.00` in the file. Since another space comes next in your SEARCH command, no match is found (1 is next in the file). If you know COMPRESS is ON, enter this command to find the string:

```
>S Inventory'number 10.00 
```

The SEARCH, REPLACE, and GLOBAL commands can be used to replace strings within a limited portion of the text. If you mark off a section of text using the BLOCK MARK function key, and set SBLK to ON, the command searches for or replaces only text within the marked block. Also, AlphaXED's recognition of upper and lower case letters during execution of commands is determined by SEARCHFOLD. TOKEN lets you search for strings bounded by spaces or special characters such as control characters—see Chapter Seven for more information.

FINDING TEXT (SEARCH)

To quickly find a certain string in your file, you can use the SEARCH command. To do so, switch to command mode, enter SEARCH, a space, the string to be found, and press . For example, say you want to find all instances of the string "company":

```
>SEARCH company 
```

You can search for text preceded by blanks by typing the spaces on the command line. All of the blanks, except the one typed immediately after the command name, are part of the search string. This feature only works correctly if COMPRESS is OFF (because of the way it affects spaces). AlphaXED switches you back to Screen mode with the cursor on the "c" of the first "company" in the file. If SEARCHFOLD is ON, AlphaXED ignores the difference between upper and lower case letters in a search. Otherwise, it searches for exactly what you entered.

The search string may be a maximum of 78 characters long, and contain any characters in the character set except RUBOUT, NULL, and CARRIAGE RETURN. Non-printable characters must be entered in the string in image mode (using ^G). End of line (LINE FEED) is represented by the EOLN character (default, a backquote). If you wish to search for a literal occurrence of the EOLN character, you must first set the EOLN character to something else. The same is true of either of the two wildcard symbols—you must change them to something else to search for them literally. For example, if the wildcards are set to the default (?*), you must reset the wildcards in order to search for an instance of ? in your file.

You can move the cursor to the next occurrence of the string by pressing the MATCH NEXT function key or . Each time you press MATCH NEXT, the cursor advances to the next occurrence of the string, until there are no more—then MATCH NEXT returns you to command mode. If the string you specify is not in the file, AlphaXED displays:

String not in file

SEARCHING FROM CURSOR LOCATION

NEXT operates the same way as the SEARCH command, but it begins the search at the current cursor location instead of at the beginning of the file.

BACKWARD SEARCHING

If the BACKWARD parameter is ON, SEARCH searches backwards from the end of the file for the string. NEXT searches backward from the cursor position. Multi-character wildcards are not supported in backward searches, and TOKEN, COMPRESS and SEARCHFOLD do not affect backward searches.

SEARCHING IN LARGE FILES

If your entire file does not fit into memory, and you wish to search for a string, use WHOLE as you would SEARCH. Once all instances of the string in the text residing in memory are found, it saves that text to the disk and loads more of the file to continue searching. If BACKWARD is ON, however, WHOLE only searches the file in memory.



The disadvantage of WHOLE is you must exit and re-enter the editor to return to any text saved on disk.

REPLACING TEXT

REPLACE finds a string, and replaces it with another string. The procedure is:

1. In command mode, enter REPLACE, a space, the string of characters you wish to replace, and press **RETURN**. For example:

```
>REPLACE Transcendental Iterations Loop RETURN
```

2. You see a question mark. Enter the characters you want to replace the first string:

```
>REPLACE Transcendental Iterations Loop  
?Automatic Counting Routine RETURN
```

If the string is not in the file, AlphaXED tells you so and positions the cursor next to the AlphaXED prompt.

If the string is in the file, AlphaXED transfers you to screen mode, where the cursor rests on the first character of the first instance of the string. You then tell AlphaXED what to do next by typing one of the following characters, or pressing one of the keys, without pressing **RETURN**.

Char./Key	Result
Y	Yes, replace the string and find the next one.
N	No, don't replace it, but find the next one.
MENU or ESC	Return to command mode without replacing.
CTRL / S	Position line the cursor is on at mid-screen.

The string is changed immediately if you type Y, and AlphaXED finds the next occurrence. Repeat the process until all strings you want changed are changed. When done, AlphaXED returns you to command mode.

Like SEARCH, the operation of REPLACE is modified by the SBLK and SEARCHFOLD parameters, as described in Chapter Seven.



REPLACE and GLOBAL operations involving more than one word when SEARCHFOLD is ON can sometimes give you results you might not expect. Multi-word replacements follow a number of rules designed to try to replace such strings in a manner reflecting common English usage. If you have unusual capitalization, you may not get the replacement you wanted. It is generally better to do multi-word replacements with SEARCHFOLD OFF, so you are replacing exact matches.

Whenever you replace text preceded by a single or double quote, remember that it matters whether the first character in the text to be replaced is in upper or lower case.

If the text starts in upper case; e.g. "HELLO" or "Hello", the entire new word will be in upper case for every replacement.

If the text starts in lower case; e.g. "hello" or "hELLO", the entire new word will be in lower case for every replacement.

GLOBAL REPLACEMENT OF TEXT

GLOBAL does the same thing as REPLACE, except it does not ask you whether or not to replace each string. It simply replaces all instances of the string in the file, then displays the number of strings replaced. Here is an example:

```
>GLOBAL Transcendental Iterations Loop RETURN
?Automatic Counting Routine RETURN
10 strings replaced
```



Use GLOBAL with care; you can easily end up with errors throughout your file if there are occurrences of the search string you do not anticipate. For example, if you use GLOBAL to change "is" to "was," (and TOKEN is off) AlphaXED also changes "this" to "thwas." GLOBAL may not be abbreviated.

MATCHING BRACES

AlphaXED provides a useful function to help you balance pairs of brace characters. The set of braces include: {, }, [,] and (,).



Balancing is available for all file types, not just AlphaC files.

To balance a set of braces, place the cursor on the left or right brace character. Next, press the MATCH BRACE function key. If there is one, the cursor moves to the corresponding matching brace.

You can also use the MATCH BRACE function to find the next occurrence of a " or a '. To do so, place the cursor on either quotation character, then press the MATCH BRACE function key. To indicate the direction of the search press the left or right arrow key.

File Balance

AlphaXED provides a command to balance the file starting from the current cursor position to the end of the file (see above for details of balancing). To execute the command enter:

```
>balance RETURN
```

Programming Language Context Sensitivity

Be aware that the brace balancing function differs in behavior within different file types. The following table summarizes these differences:

.BAS, .BSI	Skips all balancing characters from either Rem or ! until the end of the line. Balances all characters after Rem or ! when balancing backward. Skips string literals.
.BP, .BPI	Same as above, except that it also skips character constants.
.H, .C	Skips the /* and */ comments.
.M68	Skips all characters from the ; until the end of the line. Balances all characters after the ; when balancing backward.

CHAPTER 10

CAPTURE AND MACRO FEATURES

This chapter describes three AlphaXED features you can use to "record" keystrokes, then play them back again. The overall effect of these features is to reduce the amount of repetitive typing you have to do to give AlphaXED commands. The features are:

- Capturing key sequences
- Repeating key sequences
- Creating and using macros

CAPTURING A SEQUENCE

AlphaXED lets you "capture" keystrokes so you can "replay" them again—as many times as you need. You may capture keystrokes from both your editing screen and command mode. Any sequence of actions you can do in AlphaXED can be captured.

There are three basic steps in using this feature: telling AlphaXED where to start remembering commands you type, where to stop, and when to replay the commands. A fourth step lets you add more commands to a sequence you've already recorded.

Press the CAPTURE START function key and "Capture" appears on the bottom status line as a reminder. Type the keys you want to be able to replay. You can type any character, use editing features, even go to command mode and use AlphaXED commands. When you are done, press the CAPTURE END function key.

Executing a Captured Sequence

To "play back" a sequence of keystrokes you have captured, place the cursor where you want them to begin and press the CAPTURE EXECUTE function key.

The keystrokes you saved are then done, in the same order they were recorded. They remain saved until you exit the file, or you record another sequence of keystrokes with the CAPTURE START function key.

Adding To A Capture Sequence

You might want to add keystrokes to a sequence you recorded. Though you can't go back re-arrange the order of the keystrokes, you can append new ones to the end. To do so, press the CAPTURE APPEND function key and type what you want added to the existing capture sequence. When you are done, press CAPTURE END.


REPEATING KEYSTROKES

The REPEAT function key lets you instruct AlphaXED to repeat a keystroke from one to nine times. To use this feature, press the REPEAT function key, type the number of times you want to repeat, then press the key you want repeated. You are allowed only one keystroke; however, the SHIFT or CTRL keys do not count. For example, suppose you wanted the letter "a" to appear in your file eight times:

1. Press **REPEAT**
2. Type 8
3. Type a

AlphaXED types the letter "a" eight times on the line where the cursor rests. A more practical application may involve using REPEAT along with the CAPTURE START function key.

Programmers may be interested to know a single keystroke may transmit more than one character if the key has a multi-character translation specified in the AlphaXED translation table associated with the terminal. In this case, the whole translation sequence is repeated the specified number of times.

If you press the REPEAT key by accident, press  to exit.

CREATING AND USING MACROS

A macro lets you store a series of commands and/or keystrokes, and recall the entire series with one command. The capture feature described at the beginning of this chapter is a macro; but it is a limited macro because it remembers only one series of instructions and is overwritten every time you want another series of instructions.

AlphaXED has a MACRO command which lets you store a sequence of keystroke instructions, identified by a name. This lets you store more than just one series of instructions and do them as you choose.

Macro definitions can be created as you work with a file and AlphaXED remembers them until you exit. However, you can keep more permanent versions of macros by including them in your XED.INI file, or in .MAC files. No matter how they are saved, you follow the same steps and format for defining a macro.

Defining a Macro

The first step in defining a macro is choosing a name. Macro names are no more than six characters long, begin with a letter, and can be in upper or lower case. However, macro names may not be the same as any AlphaXED command, such as SEARCH, SAVE, and so on. Each macro can include a maximum of 510 keystrokes. You can have as many as 20 different macro names defined at one time. The format for MACRO is:

```
MACRO {name} {macro-keystrokes}
```

You must press `RETURN` to end the macro instructions. If you enter MACRO only, a menu of current macros is displayed. If you enter only MACRO and the name, the current keystrokes defined for that macro are displayed. For example, type this at command mode:

```
>MACRO date 23 April 2000 RETURN
```

This macro's name is "date" and holds the text "23 April 2000." Now, while you are in this file, you can instruct AlphaXED to type the date you recorded—23 April 2000—at the current cursor position. To do so, place the cursor where you want and go to command mode, then:

```
>date RETURN
```

AlphaXED returns you to the text and inserts "23 April 2000" at the spot where you left the cursor.

MACRO offers more than just being able to "yank" text into your file. You can use both command and edit mode features (see the next section) as macro keystrokes, and they can be instructions for using function or other keys on your keyboard. What's more, you can "save" macros by including them as commands in your XED.INI file, or on disk as .MAC files. Then, each time you call up AlphaXED, you can use the macros you've already defined without re-entering the instructions.

Editing Existing Macros

You can redefine an existing macro in the same way you defined it. Enter MACRO, the macro name, and the new definition.

Using Function and Control Keys in Macros

You must give instructions MACRO understands as keystrokes. If you just press the key you want, AlphaXED does that operation. Therefore, you need a way to instruct AlphaXED you are giving it an instruction to remember, not necessarily to do now.

An example: macros always begin in edit mode. So, if you want a macro to use a command mode feature, say the SEARCH command, you must first supply the instruction to return to command mode, which is pressing `[ESC]`.

To signal AlphaXED to remember the keystroke, you first press `[CTRL]/[G]`. Then, you press the key you want AlphaXED to remember. In this case, `[ESC]`. The response AlphaXED gives is:

```
^[
```

The caret bracket sequence represents the universal terminal key sequence for `[ESC]`—the same sequence shown in Appendix C.

`[CTRL]/[G]` alone doesn't place any character on the command line—it causes AlphaXED to interpret the next keystroke it receives as one to do later, not now. (`[CTRL]/[G]` is also used when you need to insert a control character directly in your file. See Chapter 11 for more information.)

For each control sequence you want in your macro, except `[RETURN]`, you must press `[CTRL]/[G]` first, then the key you want used. Using `[RETURN]` in a macro is the only exception.

`[RETURN]` is reserved as the macro terminator and is only used when you want to end the macro. To use `[RETURN]` as part of your macro keystroke sequence, use the EOLN character (which defaults to a backquote mark `). For example, suppose you want a macro to display an account directory. To do so, you:

1. Press `[ESC]` to go to command mode.
2. Type: `.DIR [RETURN]`

To build a macro called SEE to do this for you, from command mode enter:

1. Type `MACRO° SEE` followed by a space.
2. Press `[CTRL]/[G]`.
3. Press `[ESC]`.
4. Type: `.DIR`
5. Type: `` [RETURN]`

This is what your screen looks like before pressing `[RETURN]`:

```
>MACRO SEE ^[DIR`
```

The EOLN character is the instruction to press . If you leave it off, you must press to see the directory after calling the macro.

Saving a Macro

Once you have defined a macro, you can save it to disk by entering the SAVEM command in Command Mode, followed by the name of the macro to be saved. This creates a file with the macro name and a .MAC extension.

DEFINING MACROS IN XED.INI

You can define a macro in your XED.INI file so it is available each time you call up AlphaXED using that XED.INI. This is especially helpful if you do the same series of operations often, and/or in many files—you don't have to re-enter the macro for each file because it is already defined. When a macro is defined, you can execute it in any file that uses that XED.INI file by typing the macro name at command mode.

The format for the MACRO definition is the same when it appears in your XED.INI file as it is when you use MACRO from command mode. MACRO in your XED.INI also follows the typical conventions for XED.INI commands. See Appendix A for more information about your XED.INI. Macro definitions in the XED.INI file supercede macro definitions of the same name contained in disk files.

Macro Files

You may build files containing macro commands using the same format as above. These files can be either created by saving a currently defined macro (using SAVEM), or you can enter macro commands directly into a new file. As long as the file has a .MAC extension, it can be found by AlphaXED and executed when called (assuming it is in the correct account).

THE MACRO MENU

You can see a menu of available macro commands by entering MACRO at command mode. The name of the macro is displayed, followed by the definition. You are then prompted to enter the name of the macro you wish to execute, or to use / to return to command mode.

Macro Restrictions

There are some restrictions on the features you can use in a macro:

- You cannot use the CAPTURE key feature's capability to start, end or append a capture with the CAPTURE START, CAPTURE END, or CAPTURE APPEND function keys. You can, however, execute a captured sequence using the EXECUTE CAPTURE function key.
- You cannot define a new macro command within a macro definition.
- A macro can invoke another macro. However, if the other macro contains a reference to the first macro—a recursive macro—you might become caught in an endless loop. Be careful if you build recursive macros.

Macro Commands

There are special commands just for macro files:

BREAK

The format is:

```
^[BREAK "character-string" ^`
```

BREAK lets you move to the next occurrence of any of the characters included in character-string. For example, if you wanted to move to the next plus or minus sign, you would enter:

```
^[BREAK "+-" ^`
```

DO and OD

DO lets you repeat a command or series of commands. The format is:

```
DO UNTIL [conditional-expression]
  [editing commands or keystroke sequences]
OD
```

or:

```
DO [decimal-number]
  [editing commands or keystroke sequences]
OD
```

where [conditional-expression] or [decimal-number] controls the number of times to repeat the series. The conditional expression has the form:

```
@ = [literal-string]
```

or:

```
@ != [literal-string]
```

@ represents the current cursor position in the file. != means "not equal," and [literal-string] defines the test condition. Here's an example of a DO expression:

```
DO @ = "End marker"  
    ^L^L^D^D^L^L^Y    Credit Granted@  
OD
```

IF and FI

IF lets you do a series of commands if a certain condition is (or is not) true. The format is:

```
IF [conditional-expression]  
    [editing commands or keystroke sequences]  
FI
```

The conditional expression has the same format as in DO, above.

SPAN

Works much like BREAK, above, except the character-string defined characters to be skipped over. SPAN lets you bypass whatever characters you define in the string and go on to the next character found that is not in the set.

CHAPTER 11

SPECIAL FEATURES

This chapter discusses;

- Inserting control characters in text
- Providing an edit history for your file
- Options for the XED command

INSERTING CONTROL CHARACTERS

There may be times when you need to insert a control character directly into the text of a file or must give an instruction to use a key to the MACRO command. The `CTRL/G` key sequence lets you do this. To use it, move the cursor to where you want to insert the control character, press `CTRL/G`, then type the control character you want.

For example, suppose you want to put an escape sequence into a macro definition to move the cursor to command mode. You press `CTRL/G` at the appropriate point in the macro definition, followed by `CTRL/`. A `^[]` appears in the text to indicate the escape character is inserted at that point.

EDIT HISTORY

By placing a `VEDIT=[nn]` line in a file, you can generate an edit history for your file. This lets you easily keep track of changes. Once the `VEDIT` line exists in your file, pressing the `EDIT HIST` function key updates the edit history number of your program. AlphaXED looks for the `VEDIT=nnn` line in your file, and adds 1 to the number it finds there. Then it adds a comment line at the current cursor position to hold the new edit number, the date and time of the update, and your user name. If AlphaXED cannot find a `VEDIT` line in your program file, you see an error message. You can edit the `VEDIT` line yourself at any time. Only the first `VEDIT` line in a file is modified.

XED COMMAND SWITCHES

Each option defined below can be abbreviated to a unique combination of characters. For example, /SUBROUTINE can be /S.

/BATCH Suppresses most screen display output. This option is especially for use with the Task Manager's .LOG files and reduces the amount of unnecessary screen output recorded. For more information about the Task Manager, see your *Task Manager User's Guide*.

/BIN Used with binary and data files. Causes carriage returns and null characters to be transparent—they are neither deleted on input nor inserted on output. These characters may be inserted with `CTRL/G`. All file extensions, including .OBJ and .LIT, may be edited with /BIN. Even using /BIN, files not formatted with records less than 511 characters terminated with a linefeed character still will be difficult to edit. Also useful in certain porting situations, for transferring files with unusual characters.

/NOJOURNAL Turns off keystroke journaling.

/NODISPLAY Causes a journal restore without displaying the changes to the screen. This speeds up a large restore.

/NOYANK This option makes it easy to add text to the beginning of a file larger than your memory. If your file is larger than your memory partition, using XED to see the file fills up your memory partition and you cannot YANK information into the beginning of the file from another file on the disk. To do so, specify the NOYANK command option after the name of the file on the XED command line. For example:

```
XED FILE1.TXT/NOYANKRETURN
```

AlphaXED "opens" the file without actually bringing any text into memory. You see a field of asterisks in screen mode, just as if it were a new file. Now you can type or YANK in any text you like. When you have finished inserting other text, you can then bring in as much of FILE1.TXT as memory holds by using YANK:

```
>YANKRETURN
```

Now your added text is at the front of FILE1.TXT and you can MOVE it to another part of the text if you like.

/READ Gives you read-only access to a file. This option lets you use AlphaXED to see a file located on a device or in an account other than your own. Although you can make editing changes on your screen when the file is displayed, you can **not** retain those changes. You can UNYANK text from the file. The only way to exit a file you call up with the /R option is to use QUIT. The format is:

```
XED filespec/R
```

/SUBROUTINE Suppresses all screen output when a file is being loaded. With some applications that call XED to process a file, the periods that print on the screen are a display problem. The format is:

```
XED filespec/SUBROUTINE
```

Be aware that, since all output is suppressed, if the file does not exist, AlphaXED still asks if you want to create the file, but the question itself does not display. Entering a "Y" creates the file. In other words, if you are not aware the file does not exist, the process just seems to stop (while XED waits for a response).

/TRACE /TRACE causes each command in AlphaXED's initialization file to be displayed on your screen as it is processed. You can also turn on trace by including :T as the first line in the XED.INI file. See Appendix A for more information about XED.INI. The format is:

```
XED filespec/TRACE
```

COMPILING PROGRAMS

AlphaXED lets you compile the program you are editing without leaving it. Enter COMPILE at command mode and XED compiles it using the proper compiler (based on the file extension). These files can be compiled:

COMPILER	FILE EXTENSION
Assembly	.M68
AlphaBASIC	.BAS
AlphaBASIC PLUS	.BP
AlphaC	.C
AlphaCOBOL	.CBL

The compilers resident on your computer need to be AMOS 2.0A or later versions. The syntax is:

```
COMPILE {/switch}
```

or:

```
C {/switch}
```

You can use any switches the normal compiler accepts for the specific type of file. The screen displays the normal information generated by the assembler or compiler. If errors appear in the compilation, XED positions the cursor on the line of the first syntax error. For each syntax error, the error message is displayed on the status line.



If you COMPILE an AlphaBASIC program, you will not see error message output from the compile. AlphaBASIC PLUS and other languages display all errors.

To advance to the next error location, press the GOTO ERROR NEXT key. To go back to the last error location, press GOTO ERROR LAST. If you try to go beyond the last error or back past the first error, you see an error message.

The source file must be completely memory resident, and only 50 compiling errors can be tracked. COMPILE doesn't save your source file, but the .OBJ, .RP, or .CBJ files, and any other normal output files will be on the disk.

If you add or delete lines within locations of syntax errors, GOTO ERROR NEXT and GOTO ERROR LAST won't take you to the correct lines.



The MACRO command is handy if you often compile using the same switches. See Chapter 10.

CONTEXT HELP

A feature for .M68, .C and .BP files is context help, which gives you on-line quick-reference documentation for certain keywords in programs. The keywords include:

- AMOS Instruction set and Monitor calls for .M68 files.
- AlphaC library calls and monitor-interface calls for .C files.
- AlphaBASIC PLUS program statements.

To use context help, place the cursor anywhere on the keyword, or after the keyword but before the next keyword, and press **HELP**. XED backtracks to the beginning of the keyword, and displays information.

Keywords should contain only characters from A-Z, a-z, 0-9, \$, _, and '. All other characters are considered delimiters. Press **SHIFT/HELP** to see a topics menu, from which you can select information to view.

APPENDIX A

THE XED.INI FILE

AlphaXED's initialization file controls certain aspects of AlphaXED's execution. Although AlphaXED has certain default values built in, much of AlphaXED's versatility depends on the creation and alteration of its initialization file. This appendix describes:

- How to create the AlphaXED initialization file.
- Kinds of initialization file commands.
- Default initialization file commands.
- Command settings available.
- A sample initialization file.

CREATING AN ALPHAXED INITIALIZATION FILE

AlphaXED comes with an initialization file named XED.NEW located in DSK0:[7,0]. It is named XED.NEW so it won't overwrite an existing XED.INI file during software installation. If you choose to use XED.NEW as your initialization file, you must rename it to XED.INI. Or, you can create your own initialization file, either to affect only some user accounts, or to change the options selected for your entire system. When you create an initialization file, follow these guidelines:

- The initialization file must be created using AlphaXED or AlphaVUE.
- The initialization file name must be XED.INI.

You create XED.INI as you would any other AlphaXED file. Enter the commands you want, in the required format, and FINISH from the file to keep the settings you've chosen. You may add extra spaces on command lines, or indent the commands from the left margin to make the file easier to read, as shown in the sample XED.INI later in this appendix. You can also put comments in the file to explain what it is doing.

Location of XED.INI

You can locate an initialization file in any account on any device. The file's location determines whether it affects all user accounts, user accounts in one project, or a single user account.

TO AFFECT:	PLACE XED.INI FILE IN:
All users in one account	The account
One project	Project library account [x,0]
All accounts	DSK0:[7,0]

Search Path for XED.INI

You may have several XED.INI files on your system. AlphaXED searches for XED.INI in a specific way. It uses the first XED.INI file it finds, looking in these accounts:

1. Your current account.
2. Your project library account [project-number,0].
3. DSK0:[7,0].

If there is no XED.INI in any of these accounts, AlphaXED uses the default command settings described later in this appendix.



Do not load XED.INI in system or user memory. It does no good, and may hang your job.

INITIALIZATION FILE COMMANDS

There are two kinds of initialization file commands: those in the initialization file, and those used in both the initialization file and from command mode or the option menu.

The commands which are effective only from XED.INI affect all AlphaXED editing sessions until you change the initialization file. The commands effective from both XED.INI and within XED temporarily change how a command works for the editing session. When you exit, then return to AlphaXED, the command behaves as specified in the XED.INI file.

The table below is an alphabetic list of the commands XED.INI understands. It includes the default setting for the command if it is not included in XED.INI, and whether it is available from within AlphaXED. Those commands available within XED are described elsewhere in this manual. Those available only from the XED.INI file ("No" in both the AT CMD MODE? and AT OPTION MENU? columns) are described in the sections after this table.

COMMAND	DEFAULT SETTING	AT CMD MODE?	AT OPTION MENU?
BACKWARD	OFF	Yes	Yes
CHARINS ON/OFF ¹	OFF	Yes	Yes
COLUMN [number]	40/56 ²	Yes	Yes
COMMA ON/OFF	OFF	Yes	Yes
COMMENT [string]	; (.M68) ! (.BAS/.BP) others undefined	Yes	Yes
COMPRESS	ON	Yes	Yes
CVT	OH	Yes	Yes
DEFAULT [list]	M68,TXT,LST,BAS,BP,CMD DO,CTL,C,CBL,FOR,F77,PAS	No	No
DELTA ON/OFF	OFF (ON for BASIC & BP)	Yes	Yes
DELTA [number]	5	Yes	Yes
DISPLAY ON/OFF	ON	No	No
ENTRY ON/OFF	OFF	Yes	Yes
EOLN	Backquote	Yes	Yes
FIELD ON/OFF	ON	Yes	Yes
FIELD [number]	32(space)	Yes	Yes
FOLD ON/OFF	ON	Yes	Yes
GO [string]	FINISH	Yes ³	No
GO.ext [string]	FINISH	Yes ³	No
INDENT ON/OFF	OFF	Yes	Yes
INSERT ON/OFF	OFF	Yes	Yes
JOURNAL ON/OFF	ON	Yes	No

¹Set by function key only

²40 for all program files except AlphaBASIC and AlphaBASIC PLUS (56)

³The GO command at command level is different

COMMAND	DEFAULT SETTING	AT CMD MODE?	AT OPTION MENU?
MACRO	None	Yes	No
MARGIN [number]	0	Yes	Yes
MODEM ON/OFF	OFF	Yes	Yes
MODULE "text", "fspec"	⁴	No	No
MOUSE	OFF	Yes	Yes
SBLK ON/OFF	OFF	Yes	Yes
SEARCHFOLD ON/OFF	ON	Yes	Yes
SPACE ON/OFF	ON	Yes	Yes
START	Home	No	No
:T	-	No	No
TAB [number]	8	Yes	Yes
TOKEN	OFF	Yes	Yes
WIDTH [number]	79	Yes	Yes
WILDCARD [string]	?*	Yes	Yes
WRAP ON/OFF	OFF	Yes	Yes

⁴Default modules listed in Chapter 5.

The commands listed above are mostly discussed in Chapter 7. Those only functional in XED.INI are discussed in the sections below.

DEFAULT

Lets you list the extensions to use when you call up AlphaXED without entering a file extension. Using this parameter, you can tailor AlphaXED to search for the types of files you use most often. For example, say your XED.INI file contains:

```
DEFAULT TXT, BP, DO, CMD, M68, CTL, INV, XED
```

and you call up AlphaXED with the command:

```
XED MYFILE RETURN
```

AlphaXED looks at the DEFAULT command line in the XED.INI file, and uses the extensions listed in their order when searching for the file on the disk. In this case, it looks first for MYFILE.TXT. If it does not find a MYFILE.TXT, it looks for MYFILE.BP, MYFILE.DO, MYFILE.CMD, etc. If it does not find a MYFILE with any of the listed extensions, it asks you if you want to create MYFILE.TXT (using the first extension on

the default list). If DEFAULT does not appear in your XED.INI, AlphaXED assumes these extensions in this order:

M68 , TXT , LST , BAS , BP , CMD , DO , CTL , C , CBL , FOR , F77 , PAS , INI

DISPLAY

Determines whether you see the display when restoring keystrokes from a journal file.

GO

Lets you define the effect of entering GO in Command mode. The built-in effect of this parameter for all files is to FINISH. Depending on the extension of the file being edited, GO does one of several additional functions:

EXTENSION	MEANING
.BAS	Compile the program using COMPIL.
.BP	Compile the program using COMPLP.
.C	Compile with C compiler.
.CBL	Compile with Cobol compiler.
.CMD	Execute the command file.
.CTL	Submit the file to the Task Manager.
.FOR	Compile with Fortran compiler.
.F77	Compile with Fortran 77 compiler.
.INI	Does MONTST if in DSK0:[1,4]. Finishes all other jobs.
.M68	Assemble the program using M68.
.PAS	Compile Pascal program using PC.
.TXT	Format the file using TXTFMT.



A specific GO command in XED.INI overrides the default GO processing listed above.

A maximum of 100 characters is allowed in a GO command. However, since you can call a .CMD or .DO file from GO, you should not be restricted by this maximum.

You may enter multiple lines of commands as part of GO to initiate some special processing of your files. For example, suppose you frequently edit a certain data file to update a customer base. Every time you update the file, you need to run a BASIC PLUS program to print out a formatted list of current customers. You can set up a GO sequence that runs the program when you exit the data file. Here's what the GO command might look like:


```

GO RUNP UPDATE
2                               ; Menu answer selects print
%                               ; Current file used in UPDATE
PRINT CUST.LST                 ; Send new file to printer
SEND STEVE File on Printer$    ; Notify you it's printing

```

You can use a % sign to signify the file you are currently editing. The \$ sign indicates the end of the GO sequence—necessary because the GO command can occupy more than one line in the XED.INI file.

Placement of the \$ to end the GO sequence can effect what you wish to do. The \$ generates a Carriage Return. If the \$ appears on a separate line, it adds an extra Carriage Return. If your last command calls a command file or runs a program, and that function asks for input, the Carriage Return would act as the first input (which may not be what you want). Keep this in mind when building GO commands.

GO gives you a lot of versatility, especially if you are familiar with the operation of command files. For a complete discussion of command files, see your *Command File User's Manual*.

An additional ability of GO is you can define special commands for each type of file you edit. When you are editing a file with a programming language extension, exiting the file with GO causes the corresponding language specific command to be executed (if one is defined). Otherwise, the generic GO is executed (if one is defined), else the default GO command is executed (if there is one for that extension). If none of these can be done, GO merely FINISHes from the file. The specific GO commands are:

GO NAME	LANGUAGE	EXTENSION
GO.C	AlphaC	.C
GO.M68	Assembly	.M68
GO.BAS	BASIC	.BAS
GO.BP	BASIC PLUS	.BP
GO.CBL	AlphaCOBOL	.CBL

For example, say your XED.INI has this in it:

```

GO.BP COMPLP %0
      RUNP %0$

```

Whenever you exit a .BP file with GO, the file is compiled and executed. This feature lets you have a specific GO sequence for all of your programming files.



Remember that a generic GO definition overrides all specific definitions. So, if you want to have a GO.BP definition, for example, it would not work if you had a GO TXTFMT % command in the same .INI file.

JOURNAL n

Determines whether keystroke journaling is on or off when you call up a file. *n* is an optional number that specifies how many keystrokes occur between disk updates. This number defaults to 16, and should be by powers of 2—2, 4, 8, 16, 32, etc.

MODULE

Gives the YANK MODULE function key the file specifications it lists on its menu. As many as eleven MODULE commands can be included in the XED.INI file. The format is:

```
MODULE "description", "filespec"
```

For example:

```
MODULE "BASIC search routine", "DSK0:SEARCH.BAS[7,0]"
```

The text description can be up to 36 characters long (anything longer is truncated), and *filespec* is a standard AMOS file specification. It's a good idea to use a full file specification, with device and account numbers, if you want to be able to access the modules from other accounts.

START

Determines where the cursor is when you call up a file:

START = HOME	Beginning of the file in edit mode.
START = END	End of the file in edit mode.
START = COMMAND	In command mode.

The default is HOME.

SETTING THE TAB WIDTH (TAB :T)

In the XED.INI file (only), you can set the width of the TAB character. The format is:

```
TAB n:T
```

where *n* is the desired tab width. When the *:T* is added, the TAB key enters a TAB character of the defined width. This differs from the effect of resetting the TAB width from Command Mode or the Options Menu (which moves the cursor the desired amount, but fills the area with spaces).

SAMPLE INITIALIZATION FILE

```
START      = HOME                ; Starts at top of file
INSERT     = ON                  ; Line-insert mode ON
SPACE      = ON                  ;
WRAP       = ON                  ; Word wrap at end of line
DEFAULT    = ,TXT,BP,CMD,DO,CTL,INI,DAT,VUE,OLD,JRN
SEARCHFOLD = OFF                 ; Search for exact matches
TAB        = 8                   ;
COMMENT    = !                   ;
FIELD      = 00                  ;
EOLN       = @                   ;
WILDCARD   &*
MODULE "Header File","DSK2:FORM.TXT[100,50]"
MODULE "Add Part No.,""DSK2:U5.TXT[100,0]"
MODULE "Insert Customer Field","DSK2:1F.TXT[100,0]"
GO         = LAS %
$
```

APPENDIX B

ERROR MESSAGES

The following error messages may be displayed by AlphaXED or by the Alpha Micro Operating System to tell you that you entered an AlphaXED command incorrectly, or for some other reason AlphaXED can't do your request. Most of the error messages are self-explanatory, but to avoid any possible confusion, we discuss each one.

Access denied: (AMOS error message)

This message appears if you use UNYANK to write to a device other than the one you are logged onto and an account with a project number different from the one you are logged into. For example, you cannot UNYANK data from DSK1:[20,1] to DSK0:[30,3].

?Blank must precede macro definition

Add a blank space and try again.

Cannot allocate random file (filespec) - (AMOS error message)

This error message occurs for various AMOS file system conditions, as indicated by the (AMOS error message). For example, trying to edit a file on a write-protected disk, when the device is full, and so on.

Cannot insert - line too long

Shorten or break up the line and try again.

?Cannot FINISH - File opened for read only

Enter Q! at command mode to exit.

?Cannot SAVE - File opened for read only

Enter Q! at command mode to exit.

?Cannot RECESS - File opened for read only

Enter Q! at command mode to exit.

**?Cannot RECESS - There is a format mismatch in the existing .JRL file
File opened for READ ONLY.**

Enter Q! at command mode to exit.

?Cannot SAVE - File opened for read only

Enter Q! at command mode to exit.

Cannot SAVE - File partially on disk

This message appears when the file you are attempting to SAVE is larger than your memory partition. To keep the changes you've made so far to this file, FINISH from the file then call it up again.

Cannot XED or UNYANK file with .XXX extension

The file has an extension that means it contains data incompatible with AlphaXED. See Chapter 2 for a list of restricted extensions.

Cannot XED or UNYANK file with MEM: or RES: device name

Files currently located in either user memory (MEM:) or system memory (RES:) are not available for use.

CAPTURE START, APPEND, and END sequences not allowed in macro

Remove the sequence and try again.

?Command or option keyword may not be redefined

Change the name of what you were trying to define, and try again.

?Compile not supported for source file extension

You cannot compile the type of file you are in.

Cursor in block

You tried to do a block operation with MOVE, COPY, or UNYANK when the cursor was in the marked area of text. Move the cursor out of the block and try again.

%Cursor is not on an alphanumeric token

Place the cursor somewhere on the keyword you want defined.

?End (or start) of error list

You tried to move past the last error, or go back past the first error.

?Error in creating a RECESS file.

Check with your System Operator. There may be a disk problem, or not enough memory available.

?Error opening .JRL file - continuing without journaling

The journal file cannot be read. Check with your System Operator. There may be a disk problem, or not enough memory available.

?File has no VEDIT pseudo-op

You must have a VEDIT= line in your file to generate a edit level.

?File not completely memory resident

You tried to COMPILE a file that is partially on disk (too large to fit into memory). Exit to AMOS and compile from there, or see about increasing your memory partition size.

?Function key not implemented

The function key you pressed does not have a function at this time.

?The GO command is not allowed in the second level

You cannot go out of a file that was called from within XED (the files "above" it are still there). FINISH out of the file.

%GO command string truncated

Your GO command contained more than 100 characters. Either shorten it, or call a command file to execute the functions.

Input file already empty

When a file is too large to fit into memory, you can UNYANK the top portion of the file to the disk, then YANK the last part of the file into memory. If you issue the YANK command and the last part of the file has already been loaded into memory, this error message lets you know the YANK command is unnecessary and has no effect.

Improper format in MODULE command

Check your syntax and try again.

%Insufficient space to store module specification

MODULE specifications cannot exceed 36 characters and the one being processed contains more than 36.

!!Insufficient space to complete transfer!!

This message tells you there is not enough free space in memory for AlphaXED to do the operation you requested. When you edit a file too large to fit into memory, AlphaXED loads all that fits, then displays this message. You can edit the portion loaded into memory and access the remaining part by using the UNYANK and YANK commands. This message also appears if you try to YANK in a file or MOVE a block of text when the additional text would exceed the memory capacity.

Invalid command or option (type "help comand") or missing macro file

This message is AlphaXED's response to misspelled commands, or unrecognized commands in command mode. Check your spelling or make sure the command is valid and try again.

%Invalid image mode insertion character

After using **CTRL/G**, you cannot use **CTRL/M** (Carriage Return), **CTRL/@** (Null), the EOL character, or DEL.

Invalid initialization command: [command]

This message appears when first calling up AlphaXED if there is an invalid initialization command in XED.INI. Check the commands shown in the message for proper syntax, spelling errors, etc., and correct XED.INI as necessary.

Invalid relational op in macro conditional

Check your macro definition and look for incorrect conditions.

Invalid shift count

There are syntactic errors in the SHIFT command, or you are trying to SHIFT by an invalid amount—less than zero or more than 510.

Invalid search key

Various combinations of single and multiple wildcard characters are ambiguous. For example, two contiguous multi-character wildcards (**).

?Invalid value for option

Check your syntax and try again.

?Joined line > 510 chars - join not done

Break up the lines so joining them together will not exceed 510 characters.

JOURNAL option not allowed

You have the file open for read-only access, therefore, journaling is not needed.

%Keyword help available; menus not installed

See your System Operator about installing the menus.

?Label must be digit 0-9

Enter a digit, or press to get out of the LABEL or GOTO sequence.

%Label not located in XREF file

The label you are searching for was not found.

Line longer than 510 characters in file

The line you are trying to edit exceeds the maximum allowed by AlphaXED. To avoid loss of characters, break the line so it is less than 510 characters.

?Macro conditional expression syntax error

Check your syntax and try again.

?Macro may not contain embedded macro definition

You can't have a macro define a macro, so remove the macro definition.

Macro name must start with letter

Change the name and try again.

Macro name too long

Reduce the size and try again.

Macro syntax error - macro definition ignored

Check your syntax against the format of the macro definition to try to locate the error and correct it.

Macro text too large

Reduce the size and try again.

%Missing quote in MODULE specification

Add the missing quote and try again.

Named macro not found

Check your syntax. Make sure you're looking in the proper account, etc.

No block marked

This error message appears for COPY, DELETE, MOVE, SHIFT and UNYANK when no block is marked. Mark the text and try again.

%No context help available for this keyword

The keyword you specified is not a legal one for the language you are in—check your syntax and try again.

%No context help found for file type

You cannot get help from within your current file.

%No context help available for this keyword

There is no documentation for what you asked for. Make sure the keyword is correct for the language you are writing in.

No restore, not enough memory to store previous deleted text

The last text you deleted was larger than AlphaXED's ability to store it, so AlphaXED cannot restore the deleted text. The limit depends on your user memory partition size.

%Non-alphanumeric character in macro variable name

Remove the character and try again.

?Not enough memory

This message appears when not enough memory is available to do the operation you requested. See your System Operator about getting more memory.

?Not enough memory to perform shift

The SHIFT command may insert tabs and/or spaces in the text. If not enough memory is available to hold the inserted spaces, SHIFT is ignored.

?Not enough memory to perform yank

This message tells you there is not enough free space in memory for AlphaXED to perform the operation you requested. You attempted to YANK a file from another device, and there was not enough room in your memory partition to load that file and its device driver if necessary. The device driver must be loaded into either system or user memory. To remedy, exit your file and increase your memory allotment, or load the device driver into system memory.

Number not in source format

You tried to convert a number that was not in the proper format (or some non-numeric character). If the character you have the cursor on is the one you wish to convert, then check the CONVERT setting and make sure the first letter defines the format type as the number the cursor is on.

ON, OFF (TRUE, FALSE) expected

Answer with ON or OFF, or T or F.

Please SAVE file - Unable to expand JOURNAL file due to memory limitation

Your journal file is full—SAVE and continue editing.

?Repeat count must be digit 1 to 9

Enter a digit, or press to exit the repeat sequence.

Specification error

You made an error when typing the XED command line at monitor level. For example, you specify a file name that exceeds six characters. A carat symbol (^) marks the place on the line where the error is.

String not in file

The string you are searching for is not in your file. If you think the string should be in the file, check the SEARCHFOLD command which affects the way these commands treat capitalization. If SEARCHFOLD is off, AlphaXED accepts only perfect matches, including capitalization. If SBLK is on, AlphaXED only searches in the marked block, so check the setting of SBLK also.

There is a format mismatch in the existing .JRL file. No recovery.

You cannot recover your editing changes.

There is a format mismatch in the existing .JRL file.

You cannot recover your editing changes.

%There is no deleted text

You pressed RESTORE BLOCK, but there is nothing to restore.

?This AMOS command is not allowed

The AMOS command you tried to use could cause possible problems, and is not allowed from within XED.

%Token too long (no keyword exceeds 24 chars

The word you put the cursor on is too long to be a keyword, and so has no help definition.

Too many macro definitions

Reduce the number and try again.

%Type HELP COMAND for list of valid commands

You entered an invalid command. Use HELP COMAND if you need help.

Unable to fetch module

The file specification given in XED.INI for the MODULE command does not exist as an AMOS file. Be sure the file specification you gave exists as specified.

**%Uplevel edit of file with existing .TMP
Must be read-only (use /R switch).**

You can't open the same file twice for editing. Use /R to open it again.

!!WARNING - Line longer than 510 characters in file!

In AlphaXED no single line can be longer than 510 characters. Break up the line so it is less than 510 characters.

Warning: GO command string truncated

If a GO command string exceeds 100 characters, everything following the 100th character is ignored. Check to be sure the GO command in XED.INI is terminated by the dollar sign (\$) to signal GO's end.

APPENDIX C

AlphaXED QUICK REFERENCE LISTS

SCREEN EDITING COMMANDS

The key sequences listed in the "Alternate key" column below can be used on all terminals. They are useful when your terminal doesn't have the function or special key listed in the "Key Labeled" column. Letters shown as part of the "Alternate Key" must be entered in the case listed.

Alternate key sequences begin by pressing either **CTRL** and another key (at the same time), or by pressing **CTRL** and the underline character, releasing those, and then pressing another key.



Feature	Key Labeled	Alternate Sequence
Block copy	BLOCK COPY	CTRL / <u> </u> C
Block mark	MARK BLOCK	CTRL / P
Block move	BLOCK MOVE	CTRL / <u> </u> V
Block shift	BLOCK SHIFT	CTRL / <u> </u> Z
Capture start	CAPTURE START	CTRL / <u> </u> K
Capture execute	CAPTURE EXECUTE	CTRL / <u> </u> P
Capture end	CAPTURE END	CTRL / <u> </u> X
Capture append	CAPTURE APPEND	CTRL / <u> </u> A
Center screen	CENTER SCREEN	CTRL / S
Center line	CENTER LINE	CTRL / <u> </u> L
Char insert mode	AUTO INS CHAR	CTRL / Q
Clear marks	CLEAR BLOCK	CTRL / <u> </u> Q
Command mode	MENU or ESCAPE	CTRL / [
Cursor down	↓	CTRL / J
Cursor left	←	CTRL / H
Context Help	HELP	CTRL / <u> </u> H
Context Help Menu	Shift/HELP	CTRL / <u> </u> [
Convert Number Base	CONVERT	CTRL / <u> </u> G
Cursor right	→	CTRL / L
Cursor up	↑	CTRL / K

Feature	Key Labeled	Alternate Sequence
Delete Block	BLOCK DEL	CTRL/ [] D
Delete Character	CHAR DEL	CTRL/ D
Delete Line	LINE DEL	CTRL/ Z
Delete Prev Char	RUBOUT	--
Delete to End of Line	--	CTRL/ Y
Delete Word	WORD DEL	CTRL/ V ¹
End of Line	SHIFT/→	CTRL/ N
Find Next	MATCH NEXT	CTRL/ [] Y
Format Paragraph	FORMAT	CTRL/ [] F
Home Position	HOME	CTRL/ ^
Insert Character	CHAR INS	CTRL/ F
Insert Edit History	EDIT HIST	CTRL/ [] E
Insert Line	LINE INS	CTRL/ B
Insert Word	WORD INS	CTRL/ J
Join Line	SHIFT/↑	CTRL/ O
Last Page	SHIFT/HOME	CTRL/ E
Last Syntax Error	GOTO ERROR LAST	CTRL/ [] S
Mark Cursor Position	LABEL LINE	CTRL/ [] O
Match Brace	MATCH BRACE	CTRL/ [] Y
Next Page	NEXT SCREEN	CTRL/ T
Next Word	NEXT WORD	CTRL/ W
Next Syntax Error	GOTO ERROR NEXT	CTRL/ [] T
Option Menu	OPTION MENU	CTRL/ [] \
Previous Change	PREV CHG	CTRL/ [] B
Previous Page	PREV SCREEN	CTRL/ R
Previous Word	PREV WORD	CTRL/ A
Printer Page Break	NEW LINE	No alternate
Refresh Screen	--	CTRL/ @
Repeat Character	REPEAT	CTRL/ [] N
Return	RETURN	CTRL/ M
Return to Label	LABEL GOTO	CTRL/ [] U
Set Entry Mode	AUTO INS LINE	CTRL/ \
Start of Line	SHIFT←	CTRL/ U
Swap Window	SWAP WINDOW	CTRL/ [] W
Tab	TAB	CTRL/ I
Undelete Line/Block	RESTORE	CTRL/ [] R
Yank Module	YANK MODULE	CTRL/ [] M



¹ Not supported on AM-70 terminal

COMMAND MODE COMMANDS

Where: [n] represents a number, {spec} represents a file specification, and [a] [b] represents character strings.

Command	Purpose
CENTER	Center current line between margins.
CHARINS	Set character insert mode.
CLEAR	Clear block marks.
COMPILE {switches}	Compile source using appropriate compiler.
COPY	Copy marked block to current position.
COPYC	Copy marked block to current position and clear.
DELETE	Delete marked block.
FINISH	Update & exit file.
FORMAT	Format current paragraph.
GLOBAL a  b	Auto replace each string a with string b.
GO	Update file on disk, exit & process.
HELP {name}	Display list of topics, or text of topic {name}.
LINE n	Move cursor to line n.
MACRO name text	Remember text macro as name.
MOVE	Move marked block.
NEXT	Find next match for search or replace.
QUIT	Exit with no update.
Q!	Exit with no update, no query.
RECESS	Exit, update, and preserve context.
REPLACE a  b	Search & optional replace string a with string b.
SAVE	Update file on disk, no exit.
SAVEM	Save macro to file macro-name.MAC
SEARCH a	Search for string a.
SHIFT #	Shift block right ># or left <# of spaces.
SPLIT	Set horizontal split screen
UNSPLIT	Join horizontal split screen
UNYANK {file} {n}	Copy marked text to {file} name, or save {n} number of lines from this file to disk.
WHOLE a	Search whole file for string a.
XREF name	Display cross reference information for name.
YANK {file} {n}	Copy {file} name to current location, or get {n} more lines of this file from disk.

OPTION MENU SETTINGS

Command	Purpose	Default
AUTO CHAR	Turn auto character insert ON or OFF.	OFF
BACKWARD	Turn on backward searching	OFF
COLUMN n	Set comment column at n for ENTRY mode.	Varied
COMMA on/off	Comma inserted in AlphaC field (on), or not (off) during ENTRY mode.	OFF
COMMENT a	Set comment symbol to a in ENTRY mode.	Varied
COMPRESS on/off	Disregard spaces during search (on), or not (off).	OFF
CVT	Define type of numeric conversion	OH
DELTA ON/OFF	Turn auto increment value ON or OFF.	OFF
DELTA n	Set auto increment value for ENTRY mode.	5
ENTRY on/off	Use programmer's editing features in ENTRY mode (on), or not (off)	OFF
EOLN a	Set end-of-line character.	backquote
FIELD a	Set next-field character to a in ENTRY mode.	Varied
FIELD on/off	Turn next-field movement ON or OFF.	ON
FOLD on/off	Fold characters to upper case (ON), or not (OFF) in ENTRY mode.	ON
INDENT on/off	Move to 1st character next line.	OFF
INSERT on/off	Line insert mode on or off in ENTRY mode.	ON
MARGIN n	Set margin to column n.	0
MODEM	For using XED over a modem	OFF
MOUSE	Restores cursor to column for  or 	OFF
SBLK on/off	Searches marked block (on), or whole file (off).	OFF
SEARCHFOLD on/off	Make searches case sensitive (off), or not (on).	ON
SPACE on/off	Generate space (on), or not (off) in ENTRY mode.	ON
TAB n	Set tabs to every n columns.	Varied
TOKEN on/off	Search for isolated character (on), or not (off).	OFF
WIDTH n	Set formatting width of text to n columns.	79
WILDCARD=x,y	Selects wildcard characters.	?*
WRAP on/off	Words wrap to next line.	OFF

These commands may be entered from command mode also.

INITIALIZATION FILE COMMANDS

Though most commands function in the XED.INI file, this list only includes those commands unique to the initialization file. n represents a number, and a and str represents a character string.

Command	Purpose
DEFAULT list	Sets extensions to be assumed.
DISPLAY	Display screen during journal recovery.
GO	Define what happens after exit.
GO.C	Define what happens after exit from C.
GO.M68	Define what happens after exit from M68.
GO.BAS	Define what happens after exit from BASIC.
GO.BP	Define what happens after exit from BASIC PLUS.
GO.CBL	Define what happens after exit from COBOL.
JOURNAL	Set keystroke journaling.
MODULE "A","B"	Sets menu text "A" for file "B" for YANK MOD.
START setting	Start at HOME, END, or COMMAND.
:T	Display contents of XED.INI on execution.

SWITCHES

Switch	Purpose
/BATCH	Suppress most screen display output.
/BIN	CR and null characters transparent. Binary mode.
/NODISPLAY	Turns off display during journalling restore.
/NOJOURNAL	Turns off keystroke journaling.
/NOYANK	Open without text, for large files.
/READ	Read-only access to file.
/SUBROUTINE	Suppress periods displayed on loading.
/TRACE	Display XED.INI as processed.

APPENDIX D

TECHNICAL INFORMATION

The information in this appendix supplements the more general information provided in the chapters. The topics include:

- Technical Definitions
- Input Files
- Output Files
- Search Key
- Format Rules

TECHNICAL DEFINITIONS

AlphaXED has specific technical interpretations for locations within a file, as described in the next sections.

Beginning Of Line	Linefeed (0A hexadecimal) or beginning of file.
Blank Line	Any line which begins with a carriage return, line feed, or control character.
End Of Line	Line feed (0A hexadecimal). Although AlphaXED internally ends each line with a line feed, and uses the line feed to identify an end of line, AMOS automatically appends a carriage return (0D hexadecimal) to each line feed when the AlphaXED file is written to disk. If you want other programs to process an AlphaXED disk file, take into account each line ends with a carriage return/line feed pair.
White Space Character	Any character with an ASCII value less than or equal to blank (20 hexadecimal).

Word

A word is usually considered to be a lexicographic word or number together with any adjacent trailing punctuation; such as a period, or an isolated symbol such as a dash. The following example is considered as one word by the preceding definition:

Help!!!

AlphaXED finds no word break between the characters in the example because the three exclamation points are adjacent trailing punctuation. Using the same definition, this is not one word but two words:

!!!Help

AlphaXED determines a word break following the third exclamation point, making two words: "!!!" and "Help".

Word Group

A word-group is any contiguous sequence of characters other than white-space characters which meets one requirement in each of the following criteria:

- [∞]s preceded by at least one white-space character. Or, is preceded by the beginning-of-line instruction. Or, begins with an alphanumeric character and is preceded by at least one non-alphanumeric character or a beginning-of-line instruction.
- [∞]s followed by at least one white-space character. Or, is followed by an end-of-line instruction. Or, is terminated by a non-alphanumeric character and followed by at least one alphanumeric character or an end-of-line instruction.

For implementation ease, since the `RUBOUT` or `DEL` (FF hexadecimal) removes an existing character, in and of itself it has no status and is considered to be a non-alphanumeric, non-white-space character.

INPUT FILES

AlphaXED is designed to view and edit ASCII text files, especially programming language source files. It also has a limited capability to edit binary (data) files, using the /BIN switch. It makes implicit assumptions that its input file is formatted as records of ASCII text characters with upper bit (bit 7) equal to zero. Each record must be terminated by a carriage return/line feed sequence, and must be 510 or less characters long excluding the terminating carriage return/line feed.

Files not conforming to this format may still be examined by AlphaXED but the result of editing should be checked carefully by some other method. The presence of ASCII control characters, less than 20 hexadecimal, is a frequent cause of difficulty; in particular, isolated carriage returns or line feeds or nulls (OO Hex) may corrupt the screen display and/or the file content.

The presence of DEL characters (FF Hex) is also undesirable; AlphaXED tolerates them but does not let you insert them into your file.

AlphaXED recognizes some files as binary, such as those with extensions .WRT, .MON, etc. and disallows them as input files. As other types of binary files acquire standard extensions, the list of disallowed extensions can be expected to grow. In general, any file which is not a plain text file or programming language source file is **not** a suitable file.

While your partition size does not limit the size of file that may be edited, the largest memory-resident file that can be edited is 16 Megabytes. Larger files must be edited a portion at a time, using the YANK and UNYANK commands to swap the file sections to and from the disk.

OUTPUT FILES

AlphaXED's FINISH, SAVE, and RECESS commands rewrite a file to the disk, inserting a carriage return preceding each line feed in the text.

SEARCH KEY

The SEARCH, REPLACE and GLOBAL commands are initiated by preprocessing the search key with the search parameters in effect at the time the command is requested. If you choose to alter any commands affecting search or replace operations, such as WILDCARD, COMPRESS, and so on, do so before you request the search or replace operations. Changing any command affecting search and replace operations in mid-stream produces unreliable results.

A multi-character wildcard matches any sequence of one or more characters. However, AlphaXED doesn't accept two multi-character wildcards adjacent to one another in any search string for SEARCH, REPLACE, or GLOBAL. And, your search key must contain at least one character which is not a wildcard.

When a multi-character wildcard is used in a search key, an embedded occurrence of the target can be found within another occurrence. The search algorithm is lenient in this case and returns each embedded occurrence in turn when the MATCH NEXT function key is pressed. Therefore, use caution when using GLOBAL on a search key with a multi-character wildcard.

When a multi-character wildcard appears as the last character of the key, and the initial segment of the key is matched, the wildcard is defined to match the entire portion of the line which succeeds the found segment, provided at least one character is matched. When a multi-character wildcard appears as the first character of the key, and the last segment of the key is matched, the wildcard is defined to match the entire portion of the line which precedes the found segment, provided at least one character is matched. For example, the key "token*" matches an occurrence of the string "token" anywhere in the line except if it occurs as the last five characters in the line.

FORMAT RULES

The format feature can also format paragraphs of M68 style comments provided the paragraph is aligned on column one (each line of the comment must contain a semicolon in column zero, and a non-blank, non-control character in column one). The comment paragraph is terminated by a line that doesn't begin with a semi-colon, or a line which begins with a semi-colon followed by a blank or control character.

APPENDIX E

SYSTEM REQUIREMENTS

This appendix explains the hardware and software required to run AlphaXED. The topics are:

- The operating system you need
- How much memory you need
- The hardware you need
- Which terminal driver to use

OPERATING SYSTEM REQUIREMENTS

AlphaXED requires either AMOS/L 2.2 or later; or AMOS/32 2.2 or later.

MEMORY REQUIREMENTS

AlphaXED needs about 85K to edit (but not expand) a 20 block file. Most of this room is for XED.LIT and may be decreased if the XED.LIT program is loaded into system memory. However, since the availability of some features (reading files on foreign devices, restoring deleted blocks, etc.) depends on having sufficient free memory, we recommend a minimum partition of 150K be used.

HARDWARE REQUIREMENTS

AlphaXED is designed to take advantage of advanced terminal features which are fairly standard. In order to keep the memory requirements reasonable, it is necessary to drop support for terminals lacking these standard features, and to drop software features which become obsolete or are superseded by others. Terminals lacking a clear-to-end-of-line function are not supported. In general, AlphaXED performs less than optimally, and some features may not be available at all, on terminals of capability less than the AM-60, in particular those lacking an addressable bottom status line, insert/delete line or clear-to-end-of-screen capability.

TERMINAL DRIVERS AND TRANSLATION FILES

If you have an Alpha Micro compatible terminal (such as an AM-60) that uses the ALPHA.TDV driver, you must have a copy of the translation file ALPHA.VUX in account [7,0] on DSK0:. A translation file lets AlphaXED make use of the Alpha Micro compatible terminal's special function keys.

Non-Alpha Micro compatible terminals do not make use of these translation files. Therefore, if you have a non-Alpha Micro terminal, and you have renamed its terminal driver, be sure no .VUX translation file exists with that name. For example, if you rename a SOROC.TDV file to ALPHA.TDV, you must disable the ALPHA.VUX translation file or AlphaXED won't work on your SOROC terminal.

DO NOT disable any other .VUX files—if somebody else on your system has (or ever gets) an Alpha Micro terminal, their terminal will need the translation table.

AlphaXED decides which translation file to use by comparing the translation file name with the terminal driver name. The terminal driver defines the terminal to the system, giving information about the characteristics of the device.

Your operating system was shipped configured to boot up with a terminal driver program named ALPHA.TDV, which is configured specifically for an Alpha Micro terminal.

It is possible another driver program has been renamed to ALPHA.TDV at some point in your system's history. Therefore, the first thing you need to do is to determine if the ALPHA.TDV terminal driver defines a non-Alpha Micro terminal. To do this, use the TRMDEF command at monitor level. You see a display of the parameters that define the terminals to the system. The first column contains the terminal name and the sixth column contains the terminal driver name. If the terminal driver name is ALPHA and it defines a non-Alpha Micro terminal, then you must disable the ALPHA.VUX file.

To disable a translation file, log into DSK0:[7,0], and rename the file, using a name that will never be used as a terminal driver name. For example, from AMOS command level:

```
RENAME XYZZY.VUX=ALPHA.VUX RETURN
```

AlphaXED now should work properly on your terminal. Additional information on terminal drivers, interpreting the results of the TRMDEF command, and renaming files is included in your *System Operator's Guide*.

APPENDIX F

THE ASCII AND ISO LATIN I CHARACTER SETS CHART

The following pages contain the ASCII and ISO Latin I codes for the characters to which they are assigned in octal, decimal, and hexadecimal. Codes 000 through 031 decimal are undisplayable control-characters; remaining codes represent printable characters unless described otherwise.

The chart is divided into two sections. The first section, codes 000 through 127 decimal, belongs to the ASCII character set. The first section, codes 000 through 127 decimal, plus the second section, codes 128 through 255 decimal, both belong to the ISO Latin I character set.

SYMBOL	OCTAL	DEC.	HEX.	MEANING
NULL	000	000	00	Null (fill character)
SOH	001	001	01	Start of Heading
STX	002	002	02	Start of Text
ETX	003	003	03	End of Text
ECT	004	004	04	End of Transmission
ENQ	005	005	05	Enquiry
ACK	006	006	06	Acknowledge
BEL	007	007	07	Bell code
BS	010	008	08	Back Space
HT	011	009	09	Horizontal Tab
LF	012	010	0A	Line Feed
VT	013	011	0B	Vertical Tab

SYMBOL	OCTAL	DEC.	HEX.	MEANING
FF	014	012	0C	Form Feed
CR	015	013	0D	Carriage Return
SO	016	014	0E	Shift Out
SI	017	015	0F	Shift In
DLE	020	016	10	Data Link Escape
DC1	021	017	11	Device Control 1
DC2	022	018	12	Device Control 2
DC3	023	019	13	Device Control 3
DC4	024	020	14	Device Control 4
NAK	025	021	15	Negative Acknowledge
SYN	026	022	16	Synchronous Idle
ETB	027	023	17	End of Transmission Blocks
CAN	030	024	18	Cancel
EM	031	025	19	End of Medium
SS	032	026	1A	Special Sequence
ESC	033	027	1B	Escape
FS	034	028	1C	File Separator
GS	035	029	1D	Group Separator
RS	036	030	1E	Record Separator
US	037	031	1F	Unit Separator
SP	040	032	20	Space
!	041	033	21	Exclamation Mark
"	042	034	22	Quotation Mark
#	043	035	23	Number Sign
\$	044	036	24	Dollar Sign
%	045	037	25	Percent Sign
&	046	038	26	Ampersand
'	047	039	27	Apostrophe
(050	040	28	Opening Parenthesis
)	051	041	29	Closing Parenthesis
*	052	042	2A	Asterisk
+	053	043	2B	Plus

SYMBOL	OCTAL	DEC.	HEX.	MEANING
,	054	044	2C	Comma
-	055	045	2D	Hyphen or Minus
.	056	046	2E	Period
\	057	047	2F	Slash
0	060	048	30	Zero
1	061	049	31	One
2	062	050	32	Two
3	063	051	33	Three
4	064	052	34	Four
5	065	053	35	Five
6	066	054	36	Six
7	067	055	37	Seven
8	070	056	38	Eight
9	071	057	39	Nine
:	072	058	3A	Colon
;	073	059	3B	Semicolon
<	074	060	3C	Left Angle Bracket
=	075	061	3D	Equal Sign
>	076	062	3E	Right Angle Bracket
?	077	063	3F	Question Mark
@	100	064	40	Commercial At
A	101	065	41	Upper Case Letter
B	102	066	42	Upper Case Letter
C	103	067	43	Upper Case Letter
D	104	068	44	Upper Case Letter
E	105	069	45	Upper Case Letter
F	106	070	46	Upper Case Letter
G	107	071	47	Upper Case Letter
H	110	072	48	Upper Case Letter
I	111	073	49	Upper Case Letter
J	112	074	4A	Upper Case Letter
K	113	075	4B	Upper Case Letter

SYMBOL	OCTAL	DEC.	HEX.	MEANING
L	114	076	4C	Upper Case Letter
M	115	077	4D	Upper Case Letter
N	116	078	4E	Upper Case Letter
O	117	079	4F	Upper Case Letter
P	120	080	50	Upper Case Letter
Q	121	081	51	Upper Case Letter
R	122	082	52	Upper Case Letter
S	123	083	53	Upper Case Letter
T	124	084	54	Upper Case Letter
U	125	085	55	Upper Case Letter
V	126	086	56	Upper Case Letter
W	127	087	57	Upper Case Letter
X	130	088	58	Upper Case Letter
Y	131	089	59	Upper Case Letter
Z	132	090	5A	Upper Case Letter
[133	091	5B	Left Square Bracket
\	134	092	5C	Back Slash
]	135	093	5D	Right Square Bracket
^	136	094	5E	Circumflex
_	137	095	5F	Underline
‘	140	096	60	Grave Accent
a	141	097	61	Lower Case Letter
b	142	098	62	Lower Case Letter
c	143	099	63	Lower Case Letter
d	144	100	64	Lower Case Letter
e	145	101	65	Lower Case Letter
f	146	102	66	Lower Case Letter
g	147	103	67	Lower Case Letter
h	150	104	68	Lower Case Letter
i	151	105	69	Lower Case Letter
j	152	106	6A	Lower Case Letter
k	153	107	6B	Lower Case Letter

SYMBOL	OCTAL	DEC.	HEX.	MEANING
l	154	108	6C	Lower Case Letter
m	155	109	6D	Lower Case Letter
n	156	110	6E	Lower Case Letter
o	157	111	6F	Lower Case Letter
p	160	112	70	Lower Case Letter
q	161	113	71	Lower Case Letter
r	162	114	72	Lower Case Letter
s	163	115	73	Lower Case Letter
t	164	116	74	Lower Case Letter
u	165	117	75	Lower Case Letter
v	166	118	76	Lower Case Letter
w	167	119	77	Lower Case Letter
x	170	120	78	Lower Case Letter
y	171	121	79	Lower Case Letter
z	172	122	7A	Lower Case Letter
{	173	123	7B	Left Brace
	174	124	7C	Vertical Line
}	175	125	7D	Right Brace
~	176	126	7E	Tilde
DEL	177	127	7F	Delete
ISO LATIN I CHARACTER SET				
	200-246	128-159	80-9F	Not assigned
	247	160	A0	Required space
ı	250	161	A1	Inverted exclamation
¢	251	162	A2	Cent sign
£	252	163	A3	Pound sterling
¤	253	164	A4	Currency
¥	254	165	A5	Yen
ı	255	166	A6	Split vertical bar
§	256	167	A7	Section symbol
¨	257	168	A8	Umlaut or Dieresis

SYMBOL	OCTAL	DEC.	HEX.	MEANING
©	260	169	A9	Copyright symbol
ª	261	170	AA	Ord feminine
«	262	171	AB	Left guillemot
¬	263	172	AC	Not sign
-	264	173	AD	Discretionary hyphen
®	265	174	AE	Registered symbol
-	266	175	AF	Hyphen or macron
°	267	176	B0	Ring or degree
±	270	177	B1	Plus or minus
²	271	178	B2	Raised 2
³	272	179	B3	Raised 3
'	273	180	B4	Acute accent
µ	274	181	B5	Micro
¶	275	182	B6	Paragraph or pilcrow
•	276	183	B7	Raised dot
¸	277	184	B8	Cedilla
¹	300	185	B9	Raised 1
º	301	186	BA	Ord masculine
»	302	187	BB	Right guillemot
¼	303	188	BC	One quarter
½	304	189	BD	One half
¾	305	190	BE	Three quarters
¿	306	191	BF	Inverted question mark
À	307	192	C0	Capital A grave
Á	310	193	C1	Capital A acute
Â	311	194	C2	Capital A circumflex
Ã	312	195	C3	Capital A tilde
Ä	313	196	C4	Capital A umlaut
Å	314	197	C5	Capital A ring
Æ	315	198	C6	Capital AE ligature
Ç	316	199	C7	Capital C cedilla
È	317	200	C8	Capital E grave
É	320	201	C9	Capital E acute

SYMBOL	OCTAL	DEC.	HEX.	MEANING
Ê	321	202	CA	Capital E circumflex
Ë	322	203	CB	Capital E umlaut
Ì	323	204	CC	Capital I grave
Í	324	205	CD	Capital I acute
Î	325	206	CE	Capital I circumflex
Ï	326	207	CF	Capital I umlaut
ø	327	208	D0	Capital Eth
Ñ	330	209	D1	Capital N tilde
Ò	331	210	D2	Capital O grave
Ó	332	211	D3	Capital O acute
Ô	334	212	D4	Capital O circumflex
Õ	335	213	D5	Capital O tilde
Ö	336	214	D6	Capital O umlaut
×	337	215	D7	Multiplication symbol
Ø	330	216	D8	O slash
Ù	331	217	D9	Capital U grave
Ú	332	218	DA	Capital U acute
Û	333	219	DB	Capital U circumflex
Ü	334	220	DC	Capital U umlaut
Ÿ	335	221	DD	Capital Y acute
Ð	336	222	DE	Capital Thorn
ß	337	223	DF	Ess tset
à	340	224	E0	Lower case a grave
á	341	225	E1	Lower case a acute
â	342	226	E2	Lower case a circumflex
ã	343	227	E3	Lower case a tilde
ä	344	228	E4	Lower case a umlaut
å	345	229	E5	Lower case a ring
æ	346	230	E6	Lower case ae ligature
ç	347	231	E7	Lower case c cedilla
è	350	232	E8	Lower case e grave
é	351	233	E9	Lower case e acute
ê	352	234	EA	Lower case e circumflex

SYMBOL	OCTAL	DEC.	HEX.	MEANING
ë	353	235	EB	Lower case e umlaut
ì	354	236	EC	Lower case i grave
í	355	237	ED	Lower case i acute
î	356	238	EE	Lower case i circumflex
ï	357	239	EF	Lower case i umlaut
ø	360	240	F0	Lower case eth
ñ	361	241	F1	Lower case n tilde
ò	362	242	F2	Lower case o grave
ó	363	243	F3	Lower case o acute
ô	364	244	F4	Lower case o circumflex
õ	365	245	F5	Lower case o tilde
ö	366	246	F6	Lower case o umlaut
÷	367	247	F7	Division
ø	370	248	F8	Lower case o slash
ù	371	249	F9	Lower case u grave
ú	372	250	FA	Lower case u acute
û	373	251	FB	Lower case u circumflex
ü	374	252	FC	Lower case u umlaut
ý	375	253	FD	Lower case y acute
þ	376	254	FE	Lower case thorn
ÿ	377	255	FF	Lower case y umlaut

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Added brace matching to Chapter 9. Updated journaling in Chapter 6. Other small corrections.

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