

**USER'S GUIDE FOR**

**FIRST HAND**

Word Processor  
Data Base  
Spreadsheet

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for

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# INTRODUCTION

**WRITE** is a word-processing software tool. You can write without a pen, erase without an eraser, and move sentences without cutting and pasting or rewriting. It is a quick and efficient way to write and edit text, whether the document is a letter to a friend or a research report.

**TRACK** is an electronic worksheet that stores numerical information, such as batting averages or financial information. Titles, numbers, and formulas are entered in a spreadsheet. **TRACK** performs calculations and, most importantly, recalculates when you insert or change numbers and formulas. Finished spreadsheets can display budgets, cost comparisons, and projections neatly and efficiently.

**MANAGE** is a database management software tool, an electronic filing system. It stores information quickly, and sorts or finds stored information. **MANAGE** reviews the information in a file and then locates the requested data. It extracts the information and organizes it into a useful form.

Work can be saved on a data disk and used again later.

The three tools in **FIRST HAND** work together. **MANAGE** and **TRACK** files can be merged into **WRITE** files, producing one document with several types of data.

## User Tips

 *User tips (marked with the lightbulb symbol) give extra information about certain operations.*

## GETTING STARTED

### Necessary Hardware

**FIRST HAND** runs on the IBM PC, XT or AT, and many IBM-compatibles with at least one disk drive and a minimum of 256K of RAM. The program also runs on an Apple II/e, II/c, and II/gs with at least one disk drive and a minimum of 128K of RAM. A printer is optional.

## Installing DOS

**FIRST HAND** runs under DOS version 2.0 or later. (If your machine is already running under DOS, and the A> prompt is on the screen, skip this step.)

1. Open the disk drive door.
2. Insert DOS (version 2.0 or later) in drive A.
3. Close the disk drive door.
4. Turn on the monitor and computer. The red light on the disk drive goes on. A> appears on the screen. (See below, How to Begin.)

## Floppy Disks

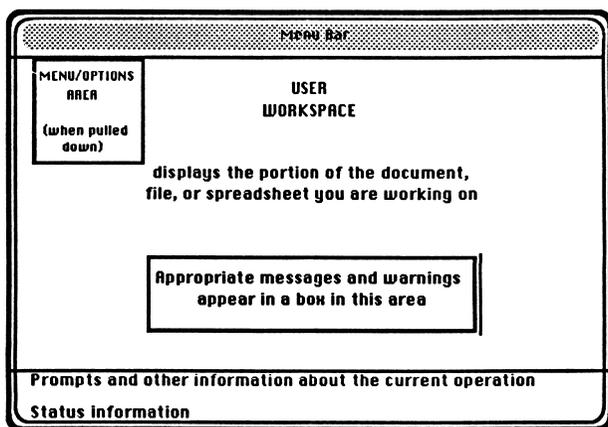
Work files are stored on a separate data disk, formatted with DOS. Use a formatted disk with other files on it, or format a new or old disk, following instructions in your DOS manual. (Caution! before formatting an old disk, be sure no one needs the old files.) Remember, if your machine has two drives, use Drive 1 for the tool program disk, and Drive 2 for your data disk.

## How to Begin

When the A> prompt appears, remove the DOS disk, insert the appropriate tool disk and type FIRST. If you have only one disk drive, press <ESC> when you are prompted to put your data disk on drive 2. Then use <F1> to pull down the File Menu. Move the highlight to Data drive and press <ENTER/RETURN>. Change the drive from 2 to 1. When prompted, insert your data disk into drive 1. 🍏 You can boot directly from the program disk. On the Apple use Data drive A for Data drive 1 and Data drive B for Data drive 2. 🍏

## Screen Design

The main screen areas are illustrated in the diagram on the following page. As you work, you learn where to look for information. When a menu is displayed, it is "pulled down" over the workspace area.



Once an option is selected, the pull-down menu is cleared from the workspace. You can also clear the workspace by pressing <F2> 🍏 <OPEN APPLE> 🍏 or <ESC>.

# KEYS

Listed below are some of the most frequently used keys:

## IBM:

<F1>

<F2>

<F3>

<F4>

<F5>

<ESC>

<ARROWS>

<BACKSPACE>

<DEL>

<INS>

## Apple:

<CLOSED APPLE> Help

<OPEN APPLE> Menu

<CTRL-S> Save

<CTRL-P> Open

<CTRL-P> Print

<ESC> cancel a command, back out of a screen

<ARROWS> move the cursor

<DELETE> erase "backward" (to the left of the cursor)

<CTRL-D> erase "forward" (erase the cursor character or space)

<CTRL-O> change between INSERT and OVERSTRIKE

## Command keys

When you see CTRL- (or ^) followed by a letter, hold down the Control key while you press the letter key.

## Screen Colors

With the IBM version, if you have a color monitor, you can select screen colors for each tool. Press CTRL-Z (when no menu is pulled down) to display the color selection screen. Follow the prompts to make changes in foreground and background colors. When you are satisfied, press CTRL-X to save your choices and return to the workspace.

(If some screen areas are difficult to read, and you are using a color card and a monochrome monitor, try different color settings to see if it helps.)

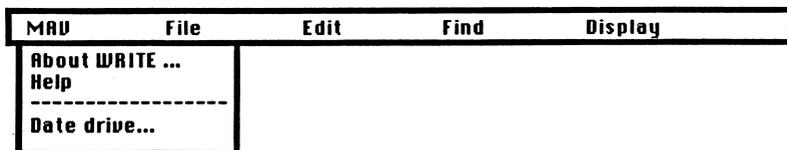
## Highlighting

Highlighting displays characters or screen areas on a color or white background. It is used to emphasize or mark something. Use arrow keys to highlight words, sentences, lines, and paragraphs.

## Choosing Menu Options

When you begin, the File menu is pulled down, with the "New..." option highlighted. Use right or left arrows to display a different menu. Use up or down arrows to highlight a menu option, and press <ENTER/RETURN> to select it. (If an option is not active, it is marked with a bar to the left of the option and you cannot select it.) Shortcut keys are listed next to some menu options. If you know which key to press, you can type in the appropriate keys without pulling down a menu and selecting. Some commands have sub-options. Sub-option choices appear in the prompt area at the bottom of the screen.

# MAV MENU OPTIONS



**About ...** displays name of the developer and the publisher of this software.

**Help** (<F1> or **Apple** <CLOSED APPLE>) is available from any part of the program. Some pages in the HELP BOOK give general information; others tell about the operation that is presently active. Most of the information in this guide is included in the HELP BOOK.

## Use the HELP BOOK

- for information about a specific operation.
- for an introduction to the tool. (Scroll through the first few HELP pages.)
- as a tutorial. (Start at page 1 and read the HELP BOOK.)
- to see command and shortcut keys, on the last two pages.

## Help commands

<b>IBM:</b>	<b>Apple:</b>	
<F1> (or Help from menu)	<CLOSED APPLE>	display HELP for the current operation.
<ESC>	<ESC>	exit the HELP BOOK (and return to your place in the program).
<ARROWS>	<ARROWS>	move forward or backward through the HELP BOOK.
<PgUp/PgDn>		
<HOME>	<CTRL-B>	go to Page 1
<END>	<CTRL-E>	go to the last page

**Data Drive** looks for the data disk and displays the directory of files made with the tool.

**WRITE** files have the extension **.WRI**  
**TRACK** files have the extension **.SPR**  
**MANAGE** files have the extension **.DAT**

If the wrong drive is selected, use the Data Drive command to enter the correct drive letter. For single-drive systems, the program prompts you to switch between the program disk and the data disk.

# FILE MENU OPTIONS

**New** begins a new file. Enter a filename (up to 8 characters). Then begin work.

**Open (<F4>)** loads any file saved on your data disk that was saved with one of the three tools. Select Open (when no file is open), highlight a filename, and press <ENTER/RETURN>.

**Close** closes a file. A prompt will ask you if you want to save your work before you close the file. If you say N for no, you close your file without saving it.

**Insert File** merges files. Locate the cursor where the file is to be inserted, select Insert File, type the name of the file to insert, and press <ENTER/RETURN>. Any file made with this program may be inserted into any file on which you are currently working. **WRITE** files may be created with **MANAGE** or **TRACK**.

**Save (<F3> or  <CTRL-S> )** saves the open file in its present version, and allows you to continue working on it. (To stop working, use Close.) A warning message appears when there is not enough room on your data disk to save the file. If this happens, remove the full data disk that is in the drive and insert another disk.



*Save the present version of a file before trying changes that might not work. If you don't like the new version, Close the file without saving.*

**MANAGE** saves in a different way from **WRITE** and **TRACK**. (See Save Record in the **MANAGE** section of this guide.)

**Copy File** duplicates files made with the current tool. To copy a file onto the same disk, select the filename and enter a new filename. To copy a file to a different drive, enter:

drive letter, colon, file name

When copying to a different drive, use the same filename or a new one.

**Rename** gives a new name to any file on your data disk.

**Erase** deletes files made with **FIRST HAND**. Use Erase to get rid of old files, and to free up space on your data disk.

**Quit** exits the program.

# WRITE

**WRITE** is a word processing tool. Use it to type, as on a typewriter. Unlike a typewriter, you can make changes and corrections before you put anything on paper. Work is saved on disk, so it can be edited at a later time. You can easily combine several **WRITE** files, or combine files made with **WRITE**, **MANAGE**, and **TRACK**.

The editing functions of **WRITE** include inserting, deleting, moving, copying, finding, and replacing text, and specifying margins, line spacing and page breaks. Printed text can be centered, underlined, or boldfaced. Because revising is so easy, **WRITE** is useful for creative writing or reports. It is also handy for creating documents that you will use more than once. For example, to write to several computer stores, you save your first letter and copy it; then you change the name and address to make other letters.

## GLOSSARY OF WRITER TERMS

**<ARROWS>** move the cursor around the workspace. Right and left arrow keys move the cursor one space at a time. Down and up arrows move the cursor one line at a time, to the equivalent place on the next line. Scroll by pressing the down arrow at the bottom edge of the work space (or the up arrow at the top edge). This scrolls the contents of the window so a new part is visible.

**<SHIFT>** for capital letters and symbols that are shown on the top half of keys.

**<BACKSPACE>** or  **<DELETE>**  erases "backward" (left of the cursor).

**<DEL>** or  **<CTRL-D>**  erases "forward" (cursor character or space). To erase more than a few characters, use Delete from the menu. (See Delete, below.)

**Word wrap** moves text to a new line if a word doesn't fit on the line. Don't press **<ENTER/RETURN>** at the end of each line.

**<ENTER/RETURN>** begins a new line. Press **<ENTER/RETURN>** twice to put an extra blank line between paragraphs.

**<TAB>** indents five spaces.

**Indent** a block of text by using **<CTRL-L>**. (See Left Margin, Right Margin, below.)

**<INSERT>** or  **<CTRL-O>**  enters characters at the cursor. Use **<ARROWS>** to locate the cursor; then type to enter text to the left of the cursor.

**Overstrike** enters characters, writing over existing characters.

# TO BEGIN A NEW FILE

1. Choose New from the File Menu.  
(Be sure you have a formatted data disk in the selected Data Drive.)
2. Name the file.
3. Begin typing text. Type in words, numbers, and spaces.

## FILE MENU OPTIONS

MAU	File	Edit	Find	Display
	New...			
	Open...			
	Close			
	Insert File...			
	-----			
	Save...			
	Print...			
	-----			
	Copy File...			
	Rename...			
	Erase...			
	-----			
	Quit			

**New** [See Introduction]  
**Open** [See Introduction]  
**Close** [See Introduction]  
**Insert File** [See Introduction]  
**Save** [See Introduction]  
**Copy File** [See Introduction]  
**Rename** [See Introduction]  
**Erase** [See Introduction]  
**Quit** [See Introduction]

**Print** (<F5> or  <CTRL-P> ) prints the file you are working on. Print values are pre-set as shown in the right-hand column below. They may be changed, within the limits in parentheses. The program does not allow you to use numbers beyond those limits. Values remain as set until changed again, or until you reload the tool. (Then they revert to the default values.)

Left Margin (1 - 65)	10
Right Margin (10 - 122)	75
Line Spacing (1 - 3)	1
Top Line (1 - 60)	7
Bottom Line (7 - 90)	60
Paper Length (6 - 90)	66
Stop between Pages (Y or N)	N
Page Numbering (Y or N)	Y
Start at Page	1
Stop after Page	99

Change "Stop between Pages" to Y for yes if you intend to feed sheets of paper by hand. If the Line Spacing does not come out as you expected, check your printer manual for setup routines.



*Use Preview Print before printing, to see the effects of control commands and print menu commands. (See below, Preview Print)*

## EDIT MENU OPTIONS

MAU	File	Edit	Find	Display
		Undo Copy... Move... Delete... ----- Overstrike		

**Undo** (<F9> or <CTRL-Z ) cancels the last Move, Copy or Delete command. (You cannot undo other commands.) You can only use the Undo function immediately after you've moved, copied, or deleted text and before pressing any other keys.



*Before trying something fancy, save your file. If you don't like the results, close the file without saving the new version.*

**Copy** (<F7>) duplicates a part of your document. Highlight the text to copy, move the cursor to the place for the copy and press <ENTER/RETURN>. The text will appear in both places. If your file is very large, you may need to divide it before you can copy text (See Copy File, above). Follow these directions to divide one file into two parts:

1. Save the file and copy it; name the copy "PART2" for example.
2. Load the original, and delete the last half; then save it.
3. Load "PART2," and delete the first half.

**Move** (<F8>) allows you to mark a part of your document and move it to another place in your document. Highlight the text to move, move the cursor to the new location and press <ENTER/RETURN>.

**Delete** allows you to mark a part of your document and erases it. Highlight the text to delete and press <ENTER/RETURN>.

**Insert** (INS or <CTRL-O> ) allows you to switch between Insert and Overstrike text entry mode. INS appears in the bottom right corner of the screen when "Insert" is selected.

# FIND MENU OPTIONS



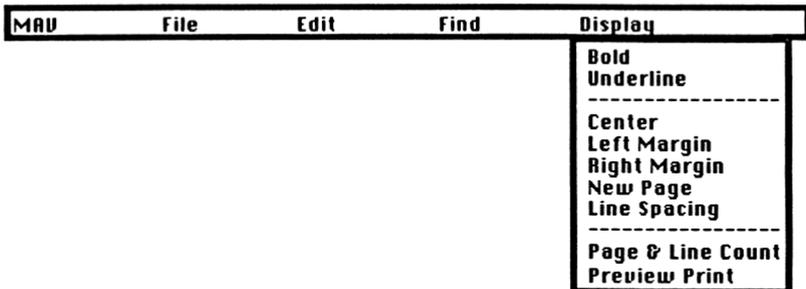
**Find** locates every occurrence of a "string" of characters. (A "string" is any combination of letters, numbers, symbols, and spaces that you enter. It can be one letter, part of a word, or several words, up to the limit of 25 characters.) Enter upper and lower case characters and spaces, exactly the way you want them found. Find starts at the cursor, loops through the end of the file and back to the cursor position until every instance of the string is found. Press <ESC> to cancel Find.



*To find a word whether or not it's capitalized, omit the first letter. (Type "ome" to find "Home" as well as "home.")*

**Replace** replaces strings of characters. For example, if you had typed "Jonson" instead of "Johnson," you could easily correct it everywhere it occurs. Type upper and lower case characters and spaces, exactly the way you want them found, and type exactly what you want used instead. Each time the string is found, the program asks if you want to replace it. Replace strings may be up to 25 characters. <ESC> stops the Replace command, but leaves all the changes already made.

# MENU OPTIONS



These commands change the way your document will look. When you use them, a highlighted symbol appears on the screen. (For example, C> marks the location of a centering command.) Erase unwanted symbols just as you erase *text*. (Symbols don't appear in print, but tell the printer what to do.)

**Bold (^B)** Select this command right before and after the characters you want to boldface. On screen, B> marks the beginning of boldface and <B the end.

**Underline (^U or  <CTRL-Y> )** Select this command right before and right after characters you want underlined. On the screen, U> marks the beginning of underlining and <U marks the end.

**Center (^C)** Select the center command to mark the beginning of the text you want centered. C> marks the beginning of centering. Everything will be centered until the next carriage return. (If text to center is longer than one line, both lines will be centered.)

**Left Margin (^L)** Each time you give this command, the left margin is indented 5 spaces. (Select this command twice for 10 spaces, etc.) The indentation remains in effect until the program encounters a carriage return in your text.



*To indent the first line of a paragraph five spaces, use TAB instead. If you use ^L the whole paragraph will be indented. To change the margins for an entire document, set the margins from the Print options menu. (See Print above.)*

**Right Margin (^R)** indents the right margin 5 spaces each time you press it. (Select this command twice for 10 spaces, etc.) The change is in effect until the program encounters a carriage return. To set off a long quotation in a research paper, change both the left and right margins.

**New Page (^N)** starts a new page. The symbol N> is displayed, and the cursor moves to the next line.

**Line Spacing (^S or  <CTRL-W> )** sets spacing at single, double, or triple ( 1> 2> or 3>). The spacing remains as set, until you change it. This command is useful when you want to change line spacing for part of a document.

**Page & Line Count** shows you the page and line for the current cursor position.

**Preview Print** displays a facsimile of a printed page on the left-hand side of the screen, and the text on the right. It shows the effects of formatting commands on your document--centering, spacing, etc. <ARROWS> move the cursors. Cancel Preview Print to resume editing the file, with the cursor at that location. Preview Print does not display on a computer without a graphics card.

## WRITE CAPACITY

### File

depending on the margins used, about 20 to 22 pages, double-spaced (less if single-spaced, more if triple-spaced).  14-16 double spaced pages  up to 25 characters, including spaces.

### String for Find or Replace

# TRACK

**TRACK** is an electronic "spreadsheet." On paper spreadsheets, printed lines mark off rectangles. You write words and numbers in the rectangles, and use your calculator or your math skills to add, subtract, multiply, and divide. Changes require an eraser; you start all over if there are too many changes.

With **TRACK** you type in words, numbers, and formulas in rectangles, called "cells," and then perform different operations and make changes in your work.

	JULY	AUGUST
EARNINGS	80.00	80.00
BONUSES	40.00	
TOTAL INCOME	120.00	80.00
EXPENSES	30.00	20.50
SAVED THIS MONTH	50.00	99.50
TOTAL SAVINGS	100.00	199.50

Prompts and other information about the current operation

Status information

Entered in this spreadsheet are:

columns	JULY and AUGUST
rows	EARNINGS, BONUSES, TOTAL INCOME, EXPENSES, SAVED THIS MONTH, and TOTAL SAVINGS
cell data	the value for AUGUST, EARNINGS is 80.00
formulas	TOTAL INCOME adds EARNINGS and BONUSES

Values and formulas can be changed to see how change affects the results, and then changed back if desired. Data can be displayed in different ways. (In the sample, the left-hand title column was made wider, to display longer titles.) Columns and rows can be deleted, inserted, or moved to new places on the spreadsheet. (In the sample, a row was inserted to separate the titles from the data.) One or several versions of the spreadsheet can be saved to use again, or printed.

## GLOSSARY OF SPREADSHEET TERMS

**Row** the cells in one horizontal line (including title cells and empty cells). The maximum is 250 rows (counting the title row).

**Column** the cells in one vertical line (including title cells and empty cells). The maximum is 27 columns (counting the title column).

**Title** the name of a row or column. When you begin, rows have 1 - 249 for titles; columns have A-Z. When you enter a title, it replaces the number or letter.

**Cell** the intersection of a row and a column. The cell in which you are presently working is highlighted.

**Cell Address** the location of a cell. It is given as column, comma, row. In the sample, 20.50 is in cell B,5. If you give its address in titles, it's AUGUST,EXPENSES.

**Expanded Formula** a formula expressed using titles. The Expanded Formula command changes the way cell addresses are expressed: B,2+B,3 becomes AUGUST,EARNINGS+AUGUST,BONUSES.

**Range** a rectangle of cells. A range can be part or all of a row or column, or a block of cells somewhere in the middle of the spreadsheet. To specify a range, enter a colon between two cell addresses: AUGUST,EARNINGS:AUGUST,BONUSES or B,2:B,3.

**Operation** the arithmetic function used in a formula. (See Formulas, below for the symbols to use.)

**Text** anything (letters, numbers, symbols) that you enter when the prompt reads TEXT instead of NUMBER.

**Cell Contents** the words, numbers, or formulas in a cell. A cell displays as many characters as will fit. When a cell is highlighted, the full text, number, or formula is displayed in the Status Area. A cell displays the result of a formula. Highlight a cell to display its formula in the Status Area (see Width, below, for widening cells).

**Best fit** numbers displayed in the form that fits the column width best.

**Integer** numbers displayed as whole numbers.

**Dollar** numbers displayed with two decimal places.

**Decimal** numbers displayed with five decimal places.

## TO BEGIN A NEW FILE:

1. Choose New from the File Menu.  
(Be sure you have a formatted data disk in the selected Drive.)
2. Name the file.

3. You will see a "window," a portion of the entire spreadsheet. The highlight is in cell A,1.
4. To move around the spreadsheet, use:  
 <ARROWS> to move up, down, left, or right  
 Goto or <TAB> then enter a cell address to go to a certain cell.  
 <HOME> to go to cell A,1.  
 <END> to go to the end of your work.
5. To Enter titles, highlight a cell, press <SPACE>, and type.  
 Titles entered in the title cells (the top row and left-hand column) remain on the screen, even when you "scroll" to another part of the spreadsheet.  
 Numbers entered in title cells do not calculate.
6. To enter text in the body of the spreadsheet, the status must be set at TEXT. To "toggle" from NUMBER to TEXT, press CTRL-T (or select Number from the Edit menu). Numbers entered as text do not calculate. (The program ignores them.)
7. To enter a number or formula, highlight a cell and type. Be sure the status is set to NUMBER. (See Formulas below.)
8. To correct data, highlight a cell, press <SPACE>, and change the contents. (To erase everything in a cell, use Blank. See below.)
9. To recalculate after entering numbers or formulas, select Calculate (or press <=>).

## FORMULAS

Formulas can be simple (with just one arithmetic operation) or complex (with several). When you enter a formula, it appears in the Status Area. Its calculated value is displayed in the cell. Enter formulas with or without spaces, using capital or lower case letters.

The formula symbols are:

+	addition
-	subtraction
*	multiplication
/	division
SUM	add a range of cells
AVE	average a range of cells
SIN	calculate the sine of an angle
COS	calculate the cosine of an angle
TAN	calculate the tangent of an angle
SQRT	calculate the square root of a number

Formulas are read from left to right and calculated in normal mathematical order:

1. SUM, AVE, SIN, COS, TAN, SQRT
2. Operations inside of parentheses
3. Multiplication and division
4. Addition and subtraction

## Symbols for entering formulas:

### Parentheses ( )

to enclose cells included in the range for a SUM or AVE formula.

Example: AVE(B,3:B,7) adds cells B,3 through B,7 and divides by the number of cells that are not empty.

to enclose a number or a cell address used for a SIN, COS, TAN, or SQRT calculation.

Example: SQRT(64)

to mark an operation to be performed first.

Example: 22+(3\*28/7)

### Colon :

to separate the first and last cell in a range.

Example: B,1:B,10

### Comma , (may be entered if you wish)

to separate the column and row in a cell address. Type the column first, then the row. (If you choose not to enter commas, the program will do it for you).

Example: AUGUST,EXPENSES or B,7

## SUM

to add the cells in the range that follows.

Example: SUM(A,1:A,10) adds the ten cells from A,1 through A,10.

## AVE

to average the cells in the range that follows.

Example: AVE(B,5:B,10) adds the values of the 6 cells in the range, then divides the total by the number of cells that have data in them.

## SIN, COS, TAN (IBM version only)

to calculate the sine, cosine or tangent of an angle.

Examples: SIN(90) calculates the sine of a right angle. TAN(C,6) calculates the tangent of the angle in cell C,6.

## SQRT (IBM version only)

to calculate the square root of a value.

Example: SQRT(25) calculates the square root of 25.



*Use the cell pointer command <F10> to enter the value of a cell into a formula. Locate the cursor in the cell to contain the formula and press <F10>. Then move the cursor to the cell that contains the desired value and press <ENTER/RETURN>. The address of the cell will be entered into your formula. This is an IBM only function.*

# WARNINGS AND ERROR MESSAGES

**???** Your formula cell refers to itself and it cannot be calculated.

**>>>** The calculated value is too large or too small (too close to zero) for the computer to calculate.

**XXX** The cell isn't wide enough to display its value without leaving out a significant part.

**Error in formula** Your formula is not valid. The program locates the cursor close to the place where the error occurs. This error message may also indicate that you have used <Backspace> or <DEL> to erase a cell, instead of Blank.

**Data in last column/row. Destroy? Y or N** Your copy or insert command will destroy data and, if you type Y the Undo command cannot cancel the command, nor can you escape.

**No more memory left** When this message appears, save your file right away. If you try to enter data, the results are unpredictable.

## FILE MENU OPTIONS

MAU	File	Edit	Find	Display
	New...			
	Open...			
	Close			
	-----			
	Save...			
	Print...			
	Copy for Writer...			
	-----			
	Copy File...			
	Rename...			
	Erase...			
	-----			
	Quit			

**New** [See Introduction]

**Open** [See Introduction]

**Close** [See Introduction]

**Save** [See Introduction]

**Copy File** [See Introduction]

**Rename** [See Introduction]

**Erase** [See Introduction]

**Quit** [See Introduction]

**Print** (<F5> or  <CTRL-P> ) prints the file you are working on. When you load TRACK, print values are set as in the right-hand column. They

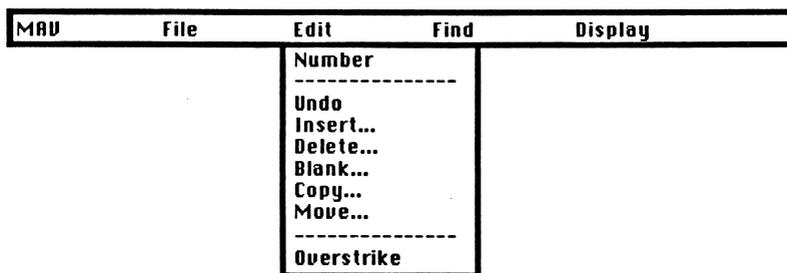
may be changed, within the limits in parentheses. The program does not allow you to use numbers beyond those limits. Values remain as set until changed again, or until you reload **TRACK**. (Then they revert to the default values.)

Left Margin (1 - 65)	10
Right Margin (10 - 122)	75
Line Spacing (1 - 3)	1
Top Line (1 - 60)	7
Bottom Line (7 - 66)	60
Paper Length (6 - 90)	66
Stop between Pages (Y or N)	N
Page Numbers (Y or N)	Y

Some spreadsheets (such as those with many columns, or those with wide margins) print on several pages, which you can tape together. Column titles print once for every two pages. (To print them on every page, choose Y for Stop between Pages.) Choose "Stop between Pages" to feed sheets of paper by hand. If the Line Spacing is not what you expected, check the printer manual for setup routines.

**Copy for Writer** saves the current **TRACK** file as a **WRITE** file. In **WRITE** you can Open the file or insert it into another **WRITE** file. Print menu selections made in **TRACK** will affect the appearance of the **WRITE** file.

## EDIT MENU OPTIONS



**Number** (^T) switches between NUMBER and TEXT.

**Undo** (F9 or <CTRL-Z> ) cancels a command of Insert, Delete, Blank, Copy, Move, Width, Best Fit, Dollar, Integer, or Decimal. You can only use the Undo command immediately after you've moved, copied, or deleted text and before pressing any other keys.

*Undo won't work after you recalculate. Before trying something fancy, save your file. If you don't like the results, close the file without saving the new version.*

**Insert** inserts blank rows or columns. Highlight the row below the new row's location, or the column to the right of the new column. Press <ENTER/RETURN>, then press < = > to recalculate. A warning appears if your insert command will destroy data in the last row or column.

**Delete (<F6>)** removes rows or columns (and the data they contain). Highlight the rows or columns to remove, and press <ENTER/RETURN>. After Delete, the spreadsheet closes up--no blank space is left.



*To get rid of a column or row and its contents, use Delete.  
To remove only the contents of cells, use Blank.*

**Blank** erases the contents of a cell, row, or column. Highlight the cell, column, or row to blank, and press < ENTER/RETURN>. The empty cell, column, or row remain. Use Blank (instead of the Delete key or <BACKSPACE>) to remove everything in a cell. (Otherwise, a formula error message appears.)

**Copy (<F7>)** copies the contents of a cell, one or more rows or columns, or a range of cells. Highlight the cells to copy and press <ENTER/RETURN>. Then highlight the location for the copy, press <ENTER/RETURN> again, and press < = > to recalculate. A warning appears if your copy command will destroy data.

**Move (<F8>)** relocates the contents of a cell, one or more rows or columns, or a range of cells. Highlight the part to move, and press <ENTER/RETURN>. Then highlight the new location, press <ENTER/RETURN> again, and press < = > to recalculate. A warning appears if your move command will destroy data.



*You can mark any rectangular block on the spreadsheet for purposes of Blank, Copy, or Move. Locate the cursor at one corner of the block to mark before you select the command. Give the chosen command (or select it from the menu), move the cursor to the opposite corner of the block, and press <ENTER/RETURN> to complete blocking the rectangle.*

**Insert (INS or  <CTRL-O> )** switches between Insert and Overstrike text entry mode.

## FIND MENU OPTIONS

MAU	File	Edit	Find	Display
			Calculate	=
			Goto	TAB

**Calculate (< = >)** recalculates spreadsheet values after changes.

**Goto (<TAB>)** This command, followed by a cell address, moves the highlight to that cell.

# ' MENU OPTIONS

<b>MRU</b>	<b>File</b>	<b>Edit</b>	<b>Find</b>	<b>Display</b>
				<b>Width</b> -----
				<b>Best fit</b>
				<b>Integer</b>
				<b>Dollar</b>
				<b>Decimal</b> -----
				<b>Expanded</b>

If you format the entire spreadsheet before you enter data, everything you enter appears in that format.

**Width** widens or narrows either columns or the whole spreadsheet. When you begin, width is set at 9 (8 characters and a space). Columns width can be as narrow as 2 (1 character plus a space), as wide as 19 (18 characters plus a space).

**Best Fit** displays data the best way possible, within the present cell width. (Numbers are rounded, text cells show as many characters as fit.) Best fit is the default setting when you begin a new file.

**Integer** displays values as whole numbers; 294.4 is displayed as 294.

**Dollar** displays values with two decimal places; 25 is displayed as 25.00.



*To display a dollar sign, set aside a narrow column, and enter the \$ symbol as text where you want it.*

**Decimal** displays values with five decimal places; 25 is displayed as 25.00000.

**Expanded Formula (^X)** displays formulas using cell titles (See Glossary, above.)

## TRACK CAPACITY

<b># of Columns</b>	27 including title column
<b># of Rows</b>	250 including title row
<b>Titles</b>	up to 19 characters
<b>Text</b>	display as many characters as fit in current column width
<b>Numbers</b>	up to 9 digits
<b>Decimals</b>	up to 5 decimal places
<b>Formulas</b>	up to 100 characters
<b>Column display</b>	up to 19 characters

# MANAGE

**MANAGE** is a "database manager," a tool used to store, organize and retrieve information. Information is entered; then the program puts it in order ("Sorts"), or selects specified parts ("Finds").

Suppose you wanted to put information from your address book into the computer. Two entries in your address book might look like this:

Sue Glenn  
47 Lakewood  
Greenwood, TX 70235  
(814) 555-4567

James Rodriguez  
22 Chester  
Sun Prairie, TX 70256  
(814) 555-6543

The same information looks like this on the **MANAGE** screen:

The screenshot shows a window titled "MANAGE" with a menu bar containing "File", "Edit", "Find", and "Display". The main area displays two entries for names and their corresponding details. The first entry is for Sue Glenn, and the second is for James Rodriguez. At the bottom of the window, there are two lines of text: "Prompts and other information about the current operation" and "Status information".

Name	Glenn, Sue
Street	47 Lakewood
Town	Greenwood
State	TX
Zipcode	70235
Phone number	814-555-4567
Name	Rodriguez, James
Street	22 Chester
Town	Sun Prairie
State	TX
Zipcode	70256
Phone number	814-555-6543

Prompts and other information about the current operation

Status information

After all the data is entered, **MANAGE** could do things like:

- Find everyone who lives in Texas.
- Find the people who live in Sun Prairie.
- Find the people who don't live in Sun Prairie.
- Put the file in alphabetical order by last names.
- Put the file in alphabetical order by town.
- Add new fields, for instance "Birthdate" or "Age."

Some uses for **MANAGE** include: mailing lists, an inventory of valuables, club or organization information, recipes, personal hobbies or collections. **MANAGE** is also useful for creating files for research reports.

## GLOSSARY OF SPREADSHEET TERMS

**File or Database** A collection of information about a subject.  
(The ADDRESS file holds records for a number of friends.)

**Fields** The categories of information about the subject.  
(Street is the second field in the ADDRESS file.)

**Field Name** The names or words used to describe each field.  
(The fields in the ADDRESS file are Name, Street, Town, State, Zipcode, and Phone number.)

**Value** The specific information (or "data") in a field.  
(The field value for Town in the record about Sue Glenn is Greenwood.)

**Record** All the data about one person or thing in a file.  
(Record #1 contains all the information about Sue Glenn.)

**Find** To select all the records with a certain field value.  
(Find records for friends who live in TX.)

**Sort** To arrange records in a chosen order.  
(Sort by Name, to alphabetize the file.)

## TO BEGIN A NEW FILE

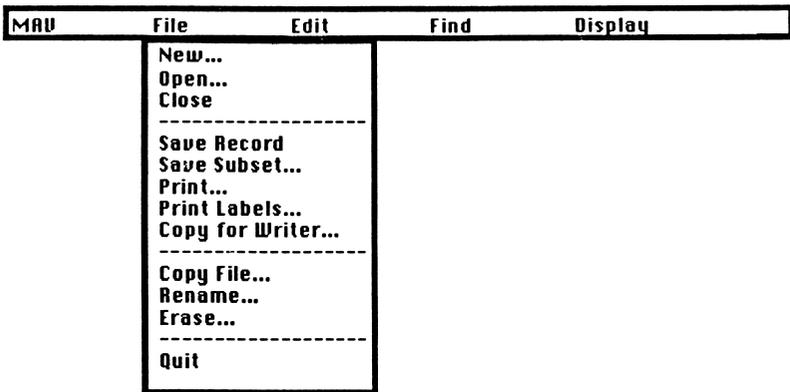
1. Choose New from the File Menu.  
(You must have a formatted data disk in the selected Data Drive.)
2. Name the file.
3. Name the first field and specify its maximum length. Then press <CTRL-A> or <PgDn> to name the next field.
4. When all the fields are named, press <CTRL-X> or <F10> to save the file structure.

Add a few records, and try using SORT and FIND to see if the file design works. If not, change the file structure, or erase the file and start again. It's easier to scrap a small test file than edit a lot of data. (See Add Record, Find, Sort Up or Sort Down below.)

## FILE MENU OPTIONS

**New** [See Introduction]

**Open** [See Introduction]



**Close** [See Introduction]  
**Copy File** [See Introduction]  
**Rename** [See Introduction]  
**Erase** [See Introduction]  
**Quit** [See Introduction]

**Save Record** (<F3> or  <CTRL-S> ) saves the record you have just entered or edited. The record remains on the screen. There is no Save command for **MANAGE**. When a file is created, its filename and structure are saved. The file is updated automatically whenever a record is added, edited, or deleted.

**Save Subset** saves the results of a find, sort, or display operation as a new, "subset" file. Records in a subset file are in the order that they were displayed, renumbered starting with 1.



*Create a subset file (with a new filename) when you want to change the order of the fields in your file, or get rid of some fields. (If you don't need the original file any more, erase it.)*

**Print** (<F5> or  <CTRL-P> ) prints the records you are presently working with, in their current order, with the fields chosen for display except for labels. See, below, Print Labels.) When you load **MANAGE**, print values are set as in the right-hand column on the following page. You can edit or erase the filename. New settings for Page Numbers or Style remain in effect until you change them or load the program. (Then they revert to the default values.)

Title	(filename)
Page Numbers (Y or N)	Y
Style	L
(S-Standard, L-List, C-Chart, N-No field names)	

What print formats mean:

Standard	prints records and field names as they are on the screen when you are entering records.
List	prints field names in a left-hand column, field values in a right-hand column.
Chart	prints up to four columns of 19 characters across the page.
No field names	prints data only, without field names.



**MANAGE** prints files single-spaced on continuous paper, in four standard styles. Make a Copy for Writer and print with **WRITE** if you want to use special size paper or change line spacing. (See below.)

**Print Labels** prints the active records in label form. Use Find and Sort before you select Print Labels, if you wish to print only certain records, and wish them to print in sorted order. (For instance, you can print labels in alphabetical order for just the people who live in Texas.)

Select Print Labels from the menu. A split screen is displayed, with field names displayed below the line and a label facsimile above. Use up and down arrows to highlight a field, use right and left arrows to highlight the target for that field, then press <ENTER/RETURN>. To erase a field from a target, select <BLANK THIS FIELD> when the incorrect target is highlighted. The first line can contain two fields (usually first name and last name). The fifth line can contain three fields (usually city, state, and zip). The program prints a comma after the first field on this line.

Labels may be from 5 to 14 lines long. The program will not print fields that do not contain data. (That means that your labels won't have any blank lines.) To print on form feed labels, set the label depth at the correct number of lines. Measure from the top edge of one label to the top edge of the next, and multiply by 6. (Since there are 6 lines to an inch, a 13-line label will print correctly on 2 1/6" labels. The maximum length is 14 lines--2 1/3 inches.)

When you're satisfied, press S for a Screen test. Records will be displayed, exactly as they will print. When you press P for a Print test, the program will print two labels. You can check to see that labels are printing the way you want before you press <CTRL-X> to print the entire file.



*If you might sometimes print labels with the last name first, enter first name and last name in separate fields. If you might sometimes print labels for addressing mail, enter an extra Title/name field in which you can enter names as they will appear on the top line of the label: Mr. Abraham Lincoln, Dr. Albert Schweitzer, Mr. and Mrs. George Washington, etc.*

**Copy for Writer** copies **MANAGE** data in a form that can be loaded into **WRITE**. It copies the active records, in their current order and format. Select Copy for Writer and choose "List" or "Chart" format. Name the new file. Open it in **WRITE** or insert it into another **WRITE** file and edit it as any other **WRITE** file.

**Erase** deletes files made **FIRST HAND**. Use Erase to get rid of old files, and to free up space on your data disk. Another way to clean house is to use DOS commands. (Remember, erase both the .DAT and the .HDR file in **MANAGE**.)



*When copying or erasing **MANAGE** files with DOS, copy or erase both the .DAT file and the .HDR file. Use \* as a short cut. For example, A>copy ADDRESS.\* will copy both files.*

## EDIT MENU OPTIONS

MANU	File	Edit	Find	Display
		Change File Structure... ----- Add Record Delete Record Copy Record ----- Overstrike		

### Change

displays the first field. Use <ARROWS> to move the cursor and make changes; then press <PgUp> or <PgDn> to move to another field, or press <CTRL-X> (or <F10>) to save the new structure. To delete fields, use **Save Subset**. (See above.)

**Add Record (^A)** After a file structure is saved, a blank form for Record #1 is displayed. Enter data, using the keys like a typewriter. Use up and down <ARROWS> or <ENTER/RETURN> to move from field to field. Select Add Record (or press <CTRL-A>) to add another record. If this is the last record, use Save Record (or <F3> or  <CTRL-S> ) to save it.

Enter data consistently in every record. For example, when entering months, type "October" or "10," but not both. Enter the part to use for Sorting first. For example, to sort friends according to last name, enter the last name first. (If you might want to sort by first name, enter it in a separate field.) If you combine information in one field, put information that you may want to sort first. **MANAGE** starts sorting at the beginning of a field.

**Delete Record (<F6>)** deletes the currently-displayed record.

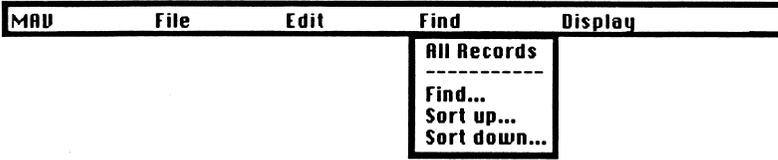
**Copy Record (<F7>)** copies the record. Use Copy Record to add a new record that is similar to an old one. Edit the copy, to avoid ending up with two identical records.



*Another way to choose a record to edit, copy, or delete is to select it from a display "As Chart."*

**Insert (INS or  <CTRL-O> )** switches between Insert and Overstrike text entry mode.

# FIND MENU OPTIONS



**All Records** restores all the records in a file after Find or Sort. Records will be back in their original order. (To display all fields, see All Fields, below.)

**Find** locates the records in a file that meet your criteria. When you select Find, field names are displayed. Use <ARROWS> to move to the field you want, and enter a "find string" (what you want found).

If you enter a "Find" string without any symbol, the program looks for records where the field value CONTAINS that string ANYWHERE IN THE FIELD.

If you use the EQUALS symbol ( = ), the program looks for records where the field value is an EXACT MATCH for the string, nothing more or nothing less.

If you use the NOT EQUAL TO symbol ( ~ ), the program looks for records where the field value is ANYTHING ELSE BUT EXACTLY THE VALUE you have typed in the chosen field (nothing more or nothing less) .

If you use the LESS THAN symbol ( < ), the program looks for field values that are either NUMERICALLY OR ALPHABETICALLY LOWER THAN the string.

If you use the MORE THAN symbol ( > ), the program looks for field values that are either NUMERICALLY OR ALPHABETICALLY HIGHER THAN the string.

Use the symbols below to find records:

Symbol:	Means	Example:	Means:
(none)	contain	Sue	all records where field contains the string Sue
=	equal to	=Glenn,Sue	all records where field contains Glenn, Sue
	(exact match)	=15	all records where field is 15
<	less than	<G	all records where the field starts with A-F
		<15	all records where field starts with a number less than 15
>	greater than	>G	all records where field starts with H-Z
		>15	all records where the field starts with a number greater than 15

Symbol: Means  
~ not

Example:  
~Glenn,Sue  
  
~15

Means:  
all records where the field  
is anything but Glenn, Sue  
all records where the field contains  
anything but exactly 15



*When you use the = and ~ symbols, be sure to specify the entire field value to find. ("exact match") Do not enter spaces in strings, unless you want the program to search for them.*

To perform multiple "finds," enter strings in several fields. For example, to find friends named Glenn who live anywhere but Oklahoma and who are younger than 14:

First, find by	Name	Glenn.
Next, find by	State	~OK
Last, find by	Age	<14.

(See above, Save Subset, for information about saving the results of a find operation.)

**Sort Up or Sort Down** Sorting puts records in order. You can sort the entire file, or sort the records selected by a Find procedure. **MANAGE** sorts the first 10 characters in a field.

Sort Up sorts                    in alphabetical order, from A to Z.  
    in numerical order, from lowest to highest.

Sort Down sorts                in alphabetical order, from Z to A.  
    in numerical order, from highest to lowest.

Letters are considered "higher" than numbers. That means that, if you Sort Down, the record beginning with a letter will sort before the record beginning with a number.

You may sort up to three fields at once. All the sorts must be either "up" or "down." First the program performs SORT-1. Then it sorts the results based on SORT-2, and finally SORT-3.

If you sorted the ADDRESS file...

SORT-1 by state  
SORT-2 by town  
SORT-3 by zip

the results would be in order...

alphabetically by state  
within state, alphabetically by town  
within town, numerically by zip.

(See Save Subset, above, for saving the results of a sort operation.)

## DISPLAY MENU OPTIONS

MAU	File	Edit	Find	Display
				All Fields Some Fields... ----- As List As Chart View/Edit

**All fields** redisplay all the fields in records after you have displayed "Some fields."

**Some fields** selects fields to display or print, and specifies the order in which they appear. Move to the first field you want displayed, and press <ENTER/RETURN>. (Press <ENTER/RETURN> again to un-select a field.) Then select other fields in the order you want. Press <CTRL-X> when you are satisfied.

**As List** displays records with field names in a left-hand column and field values in a right-hand column. To exit this display, select a different one.

**As Chart** displays up to four equal columns across the screen. If you don't choose fields, the program displays the first four fields. Use "Some Fields" to choose up to four fields to display, and their order. To exit this display, select a different one.

**View/Edit** When you edit or enter records, records are displayed in the View/Edit style. Commands from the Display Menu allow you to change the way records are displayed. Use the View/Edit command to return to the View/Edit mode after an "As List" or "As Chart" display.

## MANAGE CAPACITY

<b>File name:</b>	8 Characters
<b>File:</b>	500 records, depending on disk space and the maximum record size
<b>Record:</b>	200 Fields
<b>Field Values:</b>	500 characters
<b>Field Name:</b>	30 characters
<b>Search String:</b>	10 characters
<b>Sort Operations:</b>	3
<b>Chart Display:</b>	4 fields of 19 characters each
<b>Labels:</b>	5 to 14 lines