



RELEASE BULLETIN
819-095000-340

MULTIPLAN
(MS-DOS VERSION)

Model No: APC-S73M

1.0 INTRODUCTION:

Multiplan is a personal productivity tool that will help you analyze data. It is a powerful modeling and planning tool to be used in budgeting, resource and product planning, personal investments and sensitivity analyses. You get a chance to ask "What if?" type questions, to test out plans, and to forecast. Change a critical number, and watch the figures change across your worksheet.

Multiplan is an electronic worksheet of 255 rows long and 63 columns wide for words, numbers, and formulas. It allows you to connect several worksheets so that you can build up a chain of sheets that provide information to each other. With the consistent command structure and on line HELP feature, you will soon learn how to manipulate data to obtain the answers you need.

2.0 CONTENTS OF THE RELEASE:

2.1 Distribution Media

PART NO.	DESCRIPTION
819-076073-010M	Multiplan Diskette

2.2 Documentation

PART NO.	DESCRIPTION
819-095000-340	Multiplan Release Bulletin
158-999000-186	Multiplan User's Guide
158-020000-155	Multiplan Template

3.0 HARDWARE/SOFTWARE REQUIREMENTS:

3.1 Minimum Hardware Requirements

APC-H01 - Monochrome APC with single FDD

3.2 Minimum Software Requirements

APC-S02 - MS-DOS Operating System

4.0 INSTALLATION PROCEDURE:

PLEASE NOTE:

1. The distribution diskette is already installed for the NEC APC, refer to the (attached) Multiplan Quick Reference Guide for use of special keys on the APC.
2. If you will be using a hard disk, refer to the MS-DOS Release Bulletin, Section 6, for instructions on formatting the disk drive.
3. To use the MS-DOS COPY command on a single drive system, you will need to use a CONFIG.SYS file to assign additional disk buffers. To do this:
 - a) Create a file named CONFIG.SYS on your bootable MS-DOS system diskette, using EDLIN or the COPY command. This file must contain the statement:

```
BUFFERS=10
```

If CONFIG.SYS already exists on your system diskette, edit it to delete any other BUFFERS= statement, and add the BUFFERS=10 statement.

The most convenient way to create CONFIG.SYS is to use the COPY command to copy from the keyboard to the CONFIG.SYS file as follows: (User input is denoted by lower case, but may be entered in either upper or lower case.)

```
A>copy con config.sys      Press <RETURN>
buffers=10                 Press <RETURN>
Press <CTRL><Z>            Press <RETURN>
      1 File(s) copied
```

```
A>
```

- b) Reboot the system diskette. (Press and hold the <FNC> <CTRL> and <BREAK/STOP> keys together, in that order. When the screen clears, release the keys).

Floppy Diskette-Based:

REPLACE the following paragraphs with the "Getting Started" section of the Multiplan User's Guide:

1. Formatting Diskettes

- a) Boot the MS-DOS operating system diskette from drive A.
- b) Enter **FORMAT/S** at the A> prompt if you have a single drive system. Enter **FORMAT B:/S** at the A> prompt if you have a dual drive system.
- c) At this point, follow the instructions on the screen for inserting a blank diskette into the appropriate drive. If you have a single drive system, be sure to remove the MS-DOS diskette and put a blank diskette into drive A to be formatted.
- d) On a single drive system, remove the blank diskette and reinsert the MS-DOS diskette into drive A and strike any key when ready. In one second, exchange the MS-DOS diskette for the formatted diskette and strike any key when ready.
- e) The diskette is now formatted and the MS-DOS system has been loaded on the blank diskette. This was specified with the "/S" entered with the format command.
- f) Refer to the MS-DOS System User's Guide for further information.

2. Making A Backup (Working) Copy

An internal command called "COPY" is supplied on the MS-DOS operating system diskette, which will be used to copy files from one diskette to another. Use this command to make a working copy of Multiplan. Then, store the original diskette in a safe place in case the working copy is damaged. Also, use this command (or the DISKCOPY utility) periodically to make backup copies of often used diskettes. Refer to the MS-DOS System User's Guide for further information.

To use COPY:

- a) Boot the MS-DOS operating system diskette from drive A. Remove the diskette from drive A.
- b) Insert the distribution copy of the Multiplan diskette into drive A. If you have a single drive system, go to step C and the system will prompt you when to insert your formatted diskette into drive A. If you have a dual drive system, insert a formatted diskette into drive B.

c) Enter the following:

COPY *.* B: Press <RETURN>

d) All the files will be copied from the distribution diskette to your Multiplan working copy diskette. At the A> prompt, store the Multiplan distribution copy diskette in a safe place. You will be using your Multiplan working copy diskette from now on. Label the Multiplan working copy diskette.

3. Loading the Multiplan Diskette

To load the Multiplan diskette, turn on the APC and insert the Multiplan working copy diskette into drive A. Place the template that comes with this guide in the slot above the function keys on the keyboard. The following appears as the autostart routine begins (If the date and time are correct, press <RETURN>, else enter the correct date [MM-DD-YY] and time [HH:MM]:

```
MS-DOS version x.xx
Copyright 1981,82,83 Microsoft Corp.
Command v. x.xx
A> echo off
Current date is XXX 99-99-1999
Enter new date:
Current time is 12:01:00.00
Enter new time:
Loading Multiplan...
```

The screen will show the Multiplan version number and copyright notice for three seconds. Then the initial Multiplan display screen will appear.

Hard Disk-Based:

REPLACE the following paragraphs with the "Getting Started" section of the Multiplan User's Guide:

1. Follow steps 1 through 2 as outlined in the Floppy Diskette-Based section.
2. Use the COPY command (introduced earlier) to copy the complete contents of the Multiplan working copy diskette to the selected hard disk (disk drive E:). Then all the Multiplan execution files will reside on the hard disk.
3. Alter the file AUTOEXEC.BAT on your Multiplan working copy diskette using the EDLIN.COM utility. You need to change Multiplan's default drive so that the hard disk is used automatically. Insert a new first line to the

AUTOEXEC.BAT file. The first line should read "E:" (the default hard disk drive). Refer to the MS-DOS System User's Guide for further information regarding the EDLIN utility.

5.0 ENHANCEMENTS:

None.

6.0 CAUTIONS:

1. It is recommended that no more than one application package reside on any given floppy, because the application packages may require soft key setups.
2. Use the ^ (carat key) for exponents.
3. If you are using the hard disk, the file COMMAND.COM must reside with the MP files on the hard disk drive (for example; drive E) and also on the drive specified with the Transfer Option Setup <drive designator>.
4. Only use function keys 1 through 10 (unshifted). The other function keys are left over from the MS-DOS operating system key setup.
5. Testing was done on Normal files. For this release, the option to use file modes SYLK (symbolic) and other (DIFTM) has not been tested. Refer to the Transfer Option command for more details.
6. To view the keys specific to the NEC APC, select Help Keyboard (Next) from the command menu.
7. Corrections to the Multiplan User's Guide
 - page 41 Value in screen display should be \$2000.00
 - page 150 Values for Sales should be:
\$10000.00 \$30600.00 \$30906.00
\$31215.06 \$31527.21
Values for Gross Profits should be:
\$15000.00 \$15600.00 \$15906.00
\$16215.06 \$16527.21
 - page 246, 247 The "dash" code (-) is very faint.
 - page 339 The example should be:
Replace \$15,000 in cell R1C1.
Place RC[-1]* 1.3 in cell R1C2 (etc.).
 - page 345 The example should use double quotes:
REPT(MID("-+",SIGN(num) + 2, 1),
ABS(num))

7.0 PROBLEMS FIXED:

None.

MULTIPLAN QUICK REFERENCE GUIDE

ACTION	DESCRIPTION	FUNCTION KEY		CONTROL KEY
PAGE UP	Scrolls the window up, by twenty rows	F1		<CTRL><R>+< >
PAGE DOWN	Scrolls the window down, by twenty rows	F2		<CTRL><R>+< >
PAGE LEFT	Scrolls the window left, by seven columns	F3		<CTRL><R>+<->
PAGE RIGHT	Scrolls the window right, by seven columns	F4		<CTRL><R>+<->
NEXT WINDOW	Moves the cell pointer from one window to another	F5	;	<CTRL><W>
REFERENCE	Relative reference created with direction keys is changed to absolute reference	F6	@	
WORD LEFT	Moves the edit cursor one word to the left	F7		<CTRL><O>
WORD RIGHT	Moves the edit cursor one word to the right	F8		<CTRL><P>
CHARACTER LEFT	Moves the edit cursor one character to the left	F9		<CTRL>
CHARACTER RIGHT	Moves the edit cursor one character to the right	F10		<CTRL><N>
UP ARROW	Moves the cell pointer up			<CTRL><E>
DOWN ARROW	Moves the cell pointer down			<CTRL><X>
LEFT ARROW	Moves the cell pointer to the left		-	<CTRL><S>
RIGHT ARROW	Moves the cell pointer to the right		-	<CTRL><D>
NEXT UNLOCKED CELL	Moves the cell pointer to the next cell with a status of "unlocked"			<CTRL><F>
RECALCULATE	Causes the worksheet to be recalculated		!	
HOME	Moves the cell pointer to row 1, column 1 of the worksheet			<CTRL><Q>
END	Moves the cell pointer to the lower right cell of the worksheet			<CTRL><Z>

ACTION	DESCRIPTION	FUNCTION KEY		CONTROL KEY
CANCEL	Cancels the current command			<CTRL><C>
DELETE	Erases the character(s) that are highlighted			<CTRL><Y>
HELP	Help information is displayed		HELP or ?	
RETURN/ENTER	Executes the command instruction		RE- TURN	<CTRL><M>
BACKSPACE	Deletes all characters to the left in edit mode. At the command menu, moves the cursor to the previous command		BACK SPACE	<CTRL><H>
TAB	Moves the cursor to the next field		TAB	<CTRL><I>
SPACE	Select the next item from the command menu		SPACE BAR	