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RUNNING MULTIPLAN

At the Model 100 Main Menu, use the arrow keys to position the cursor over the Multiplan program name or over the name of a worksheet. Press (ENTER).

Press (F8) to return to the Model 100 MENU.

MOVING THE CELL POINTER

to RICI.

worksheet.

Direction Keys. Moves cell pointer in the direction indicated. Continue moving cell pointer to scroll contents of window.

Home. Moves cell pointer

End. Moves cell pointer to

lower right corner of the

active portion of the

CTRL

(SHIFT) + Direction Kev

Page Scroll. Scroll to show the next window of the worksheet in the indicated direction.

See also: Transfer Goto command

ACTION KEYS

(BREAK) (CTRL)(C)	Cancels present operation and returns to main command line menu.
(ENTER)	Carries out a completed command selected by a function key.
(F1)-(F8)	Selects Multiplan commands
(LABEL)	Displays the command line on the bottom line of the screen display.
(<u>TAB</u>)	Moves to, and selects, entire contents of next field in a command line.
!	Recalculates entire worksheet. If typed in a formula, the formula is replaced by its result.
=	Tells Multiplan that the cell contains a formula.
œ	Changes relative cell references to absolute references.

MULTIPLAN COMMANDS

(F1) – Edit Command

Lets you edit contents of a cell and responses in command fields. You can select the Edit command from any other Multiplan command to edit your responses.

Modes:

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Edit Mode lets you use the direction keys to move the edit cursor within the command field.

Value Mode lets you use the direction keys to enter cell references while editing a command field. Press (F_1) twice to enter the value mode of the Edit command.

Editing Keys

(BACKSPACE)	Deletes character to the left of the cursor
(<u>délete</u>)	Deletes character at current cursor position. Replacement text may be typed in.
	Moves the edit cursor left one character if in the Edit mode; otherwise, moves the cell pointer left one cell and enters cell reference into the command field.
	Moves the edit cursor right one character if in the Edit mode; otherwise, moves the cell pointer right one column and enters the cell reference into the command field.
Ð	Value mode only. Moves the moves cell pointer down one row and enters the cell reference into the command field.
	Value mode only. Moves cell pointer up one row and enters the cell reference into the command field.

(F2) - Blank Command

Replaces the contents of the specified cell(s) with blanks.

BLANK cells: cell(s)

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Multiplan uses the active cell as a proposed response.

(F3) – Copy Command

Duplicates the contents of cell or group of cells.

RGHT DOWN FROM

Copy Right ($\boxed{F2}$) copies the contents of one or more cells to the specified number of cells to the right of the cell pointer.

RIGHT # cells: 1 at: RC

Copy Down ((F3)) copies the contents of one or more cells to the specified number of cells below the cell pointer.

DOWN # cells: 1 at: RC

Copy From $(\overline{F4})$ copies the contents of one or more cells to another location.

FROM:RC to: RC

Note: *RC* denotes the current cell as Multiplan's proposed response.

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(F4) – Format Command

Changes the display format or width of one or more cells.

Cell Wide

Format Cells (F_2) lets you change the alignment and format.

Cells: RC #Dec: 2 Left Cen Rght Fix Gen \$

Format Width ((F3)) sets the column width of all cells. The width can be from 4 to 36. The default is 9.

(F5) - Name Command

Assigns a name which can be used to identify one or more cells in a command or formula.

NAME: refer to: RC

Note: *RC* denotes the current cell as Multiplan's proposed reponse.

(F6) – Options Command

Controls two Multiplan options and displays the contents or formula of the current cell

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FORMULA: (formula of RC) Calc ! Beep Mute

- Calc recalculates all formulas when you change a cell.
- recalculates all cells only when you press ①.
- Mute turns off the audible alarm that indicates errors.
- Beep turns on the audible alarm that indicates errors.

(F7) - Transfer Command

Loads a worksheet into memory, saves the active worksheet to cassette or disk, clears the active worksheet or moves the cell pointer.

Transfer Load $((\underline{F2}))$ loads a worksheet saved in Normal mode from either cassette or disk or a SYLK file from RAM. The active worksheet is replaced.

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LOAD filename: filename
Norm SYLK
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Note: RC denotes the current cell as Multiplan's proposed response.

WIDTH of cells: 9

(F8) — Exit Muitipian

The filename may be:

CAS:filename saves the worksheet to cassette. The filename is optional.

drive:filename saves the worksheet to disk.

Transfer Save ((F3)) saves the active worksheet to either cassette or disk in Normal mode or to RAM in SYLK mode.

SAVE filename: filename Norm SYLK

The filename is the same as Transfer Load.

Transfer Clear $(\underline{F4})$ clears all cells in the active worksheet.

CLEAR sheet - Enter Y to confirm:

Transfer Goto $((F_5))$ moves the cell pointer to the specified cell.

GOTO cell: RC

Note: *RC* denotes the current cell as Multiplan's proposed response.

Exits Multiplan and saves the active worksheet to RAM.

(PASTE) - Insert

Lets you insert row(s) or column(s) in the worksheet before the specified cell.

PASTE #: 1 before: *RC* Row Col

(PRINT) - Print Window

Prints the current window as displayed on the screen.

(SHIFT)(PRINT) -Print Worksheet

Prints all or a portion of the active worksheet using the specified width.

width: 70

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from: R1:99

Note: *RC* denotes the current cell as Multiplan's proposed response.

FORMULAS

Formulas are composed of constants, references to cells, and functions.

Cell References

Rn or Cn	Active row or column.
RnCn	Intersection of row and column.
Rn:m or Cn:m	Range of rows or columns.
R[+n] or C[+n]	Row <i>n</i> below the active row or the column <i>n</i> to the right of the active column. The + sign may be omitted.
$\mathbb{R}[-n]$ or $\mathbb{C}[-n]$	Row n above the active row or the column n to the left of the active column.
RnCn,RnCn	Union of two cells.

Operations on Numeric and Text Values

+	Add	
-	Subtract	
1	Divide	
*	Multiply	
•	Exponentiation	
%	Percent	

Functions

,	ABS(n)	Absolute value of n.
•	AND(list)	True if all values in <i>list</i> are true; otherwise returns false.
	ATAN(n)	Arctangent of π in radians.
	AVERAGE(list)	Average of values in <i>list</i> = (SUM/COUNT).
	COS(n)	Cosine of the angle π given in radians.
	COLUMN()	Current column number.
	COUNT(list)	Number of values given as arguments or by reference.
	EXP(n)	e to the power n
	FALSE()	Logical value False
	IF(<i>logical</i> , Then value	e, Else value) Returns Then value if <i>logical</i> is true; Else value if false.
•	INDEX(area,subscrip	ts) Returns the value from cell in area indicated by subscripts.

INT(n)	Integer portion of n		MAX(list)	Largest values in <i>list</i> .
truncated toward 0.			MIN(list)	Smallest values in list.
ISERROR(value)	Returns True if <i>value</i> is an error value.	·	MOD(divisor,divider	,
ISNA(value)	Returns True if <i>value</i> is #N/A value.	,		Remainder of the integer division of dividend/divisor.
LN(n)	Base e logarithm of л.		NA()	Returns the #N/A (not available) value.
LOG 10(n)	Base 10 logarithm of n .		NOT(logical)	Returns the opposite of the <i>logical</i> value.
LOOKUP(value,table	 Searches for value in the first row or or column of table. Returns the contents 		NPV(rate,list)	Net present value of cash
	of a cell from the last row or column of table. Table			flow represented by the values in <i>list</i> .
	is a group of cells on the worksheet.		OR(list)	True if any value in <i>list</i> is true; otherwise returns
	The dimensions of table			false.
	determine the direction of the search.		PI()	Value of pi (3.14159).
	Table of Columns X0 X X 5		ROUND(n,m)	n rounded to m decimal
value between	number returned			places.
154 201		,	ROW()	Current row number.
25			SIGN(n)	Returns -1 if $n < 0$, 0 if
30	00 X X 22		51014(11)	n=0, otherwise 1 is
35	XX X 27	•		returned.
40	-			
45	x x 38			

SIN(n)	Sine of the angle <i>n</i> specified in radians.			DELETING FILES	
SQRT(n)	Square root of n.	,	All files are deleted using the KILL command in BASIC.		
STDEV(list)	Standard deviation of the values in <i>list</i> .		1.	At the Model 100 Main Menu, place the cursor over BASIC and press (ENTER).	
SUM(list)	Sum of values in list.		2.	Type KILL "name.ext" (<u>ENTER</u>).	
TAN(n)	Tangent of the angle <i>n</i> .		3.	Type MENU (ENTER) (or press (F8) to return to the Model 100 Main Menu. The	
TRUE()	The logical value True.			deleted file should no longer be on the Model 100 Main Menu.	
	Error Values				
#N/A	Data not available.				

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cell.

areas.

Name not defined.

Overflow or illegal

Reference to nonexistent

Intersection of disjoint

Wrong type of value used.

arithmetic.

Division by 0.

#NAME?

#NUM!

#DIV/0

#REF!

#NULL!

#VALUE1