

Cheatography

MMBasic Cheat Sheet

by DNSGeek via cheatography.com/171119/cs/46930/

Keywords	Keywords (cont)	Keywords (cont)
' Single line comment	ARRAY SLICE This command copies a specified set of values from a sourcearray(), [d1] [,d2] [,d3] [,d4] [,d5] destinationarray()	BLIT FRAMEBUFFER from, to, xin, yin, xout, yout, width, height [,colour]
/* ... */ Multi line comment	ARC x, y, r1, [r2], a1, a2 [, c]	BLIT MEMORY address, x, y [,col]
ADC FREQUENCY [freq]	This changes the sampling frequency of the ADC conversion without having to close and re-open	BLIT MEMORY address, x, y [,col]
ADC CLOSE	Releases the pins to normal usage	BLIT MEMORY address treated as a packed array of colour nibbles to the current graphical output as specified by FRAMEBUFFER WRITE
ADC OPEN freq, n_channels[, interrupt]	This allocates up to 4 ADC channels for use and sets them to be converted at the specified frequency	BLIT COMPRESSED address%, x, y [,col]
ADC START array1!() [,array2!() [,array3!() [,array4!() [,C1min] [,C1max] [,C2min] [,C2max] [,C3min] [,C3max] [,C4min] [,C4max]]]]	This starts conversion into the specified arrays. The arrays must be floating point and the same size. 'Cxmin' and 'Cxmax' will scale the readings.	BLIT x1, y1, x2, y2, w, h
ADC RUN array1%(), array2%()	Runs the ADC continuously in double buffered mode.	BOX x, y, w, h [, lw] [,c] [,fill]
ARRAY ADD in(), value, out()	This adds (or appends for strings) the value 'value' to every element of the matrix in() and puts the answer in out().	BYTE (var\$, bytено)=value
ARRAY INSERT targetarray(), [d1] [,d2] [,d3] [,d4] [,d5], sourcearray()	This is the opposite of ARRAY SLICE	CALL usersubname\$ [,user-subparameters...]
ARRAY SET value, array()	Sets all elements of array() to value	CAT S\$, N\$
	BLIT READ [#]b, x, y, w, h	Appends N\$ to S\$
	BLIT WRITE [#]b, x, y [,mode]	
	BLIT LOAD[BMP] [#]b, fname\$ [,x] [,y] [,w] [,h]	
	BLIT CLOSE [#]b	



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Not published yet.
Last updated 24th August, 2025.
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Keywords (cont)		Keywords (cont)		Keywords (cont)	
CHAIN	Invokes program <i>fname\$</i> and keeps the variables intact	CONTINUE	Resume running a program that has been stopped by an END statement, an error, or CTRL-C	DEFINEFONT	This will define an embedded font which can be used alongside or to replace the built in font(s) used on an attached LCD panel.
CHDIR <i>dir\$</i>	Changes the current working directory to <i>dir\$</i>	CONTINUE	Skip to the end of a DO FOR or a FOR/NEXT loop	#Nbr	
CIRCLE <i>x, y, r [,lw] [, a] [, c] [, fill]</i>	Draw a circle centered at <i>x</i> and <i>y</i> with a radius of <i>r</i> on the display	COPY	Copy file <i>fname1\$</i> to new file <i>fname2\$</i>	END	Ends the font definition
CLEAR	Delete all variables	COPY	Wildcard copy. The bulk copy is triggered if <i>fname\$</i> contains a '*' or a '?' character. <i>dirname\$</i> must be a valid directory name and should NOT end in a slash character	DEFINEFONT	
CLOSE	Closes the file(s) with the specified file number(s)	CPU	Will force a restart of the CPUs. This will clear all variables and reset everything	DEVICE	Generate an extremely accurate bit sequence on pin <i>pinno</i>
CMM2		RESTART		BITSTREAM	<i>n_transitions,</i> array%()
LOAD RUN	Loads and or runs a program from disk using the CMM2 program loading mechanism	CPU SLEEP	Will cause the processors to sleep for <i>n</i> seconds		
COLOR <i>fore [, back]</i>	Sets the default color for commands that display on the screen	CSUB <i>name [type][, type] [, ...]</i>	Defines the binary code for an embedded machine code program module written in C or ARM assembler.	MM.DEVICE\$	The device or platform that MMBasic is running on
COLOUR		END CSUB	Ends the CSUB definition	MM.DISPLAY	Returns a 1 if a display is configured, else 0
MAP <i>inarray%(), outarray%() [,colorumap%()]</i>	Generates RGB888 colors in <i>outarray%</i> from color codes (0- 15) in <i>inarray%</i>	DATA	Stores numerical and string constants to be accessed by READ	MM.ERRNO	A non-zero value means an error occurred
CONFIGURE	Configures a board as per the <i>cfg</i> specified equivalent of OPTION RESET	DATE\$ = "- DD-MM-- YY[YY]" "- DD/MM/YY[- YY]" "YYYY-MM- DD" "YYYY/- MM/DD"	Set the date of the internal clock/calendar	MM.ERRMSG\$	The error message
CONFIGURE	Lists all the various configurations available for the firmware version			MM.FLAGS	Returns the system flags register
CONST <i>id = expression [, id = expression][, ...]</i>	Creates constant identifier <i>id</i> and sets it to the value of <i>expression</i> . This value cannot be changed once set.			MM.FON-THEIGHT	Returns the height of the current font
				MM.FON-TWIDTH	Returns the width of the current font
				MM.HRES	Returns the horizontal resolution of the configured display
				MM.VRES	Returns the vertical resolution of the configured display

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Last updated 24th August, 2025.
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Predefined Read Only Variables (cont)

MM.HEIGHT	Returns the number of characters high the configured display is with the current font
MM.WIDTH	Returns the number of characters wide the configured display is with the current font
MM.HPOS	Returns the current horizontal position
MM.VPOS	Returns the current vertical position
MM.INFO\$(-AUTORUN)	Returns the current setting of OPTION AUTORUN
MM.INF-O(ADC)	Returns the number of the buffer currently ready to read when using ADC RUN (1 or 2). Returns 0 if nothing ready.
MM.INF-O(ADC DMA)	Returns 1 if the ADC DMA is active
MM.INF-O(BOOT)	Tells you the reason of the last system restart
MM.INF-O(BOOT COUNT)	The number of restarts since the last flash ram format
MM.INFO\$(-CPU-SPEED)	Returns the current CPU speed
MM.INFO\$(-LCDPANEL)	Returns the value of the configured LCD panel, or a blank string if none
MM.INFO(L-CD320)	Returns 1 if the configured LCD panel can run OPTION LCD320
MM.INFO\$(-SDCARD)	Returns the status of the SD card
MM.INFO\$(-CURRENT)	Returns the name of the current program

Predefined Read Only Variables (cont)

MM.INF-O(-PATH)	Returns the path of the current program
MM.INF-O(DISK SIZE)	Return the size of the active drive
MM.INF-O(-DRIVE)	Returns active drive "A:" or "-B:"
MM.INF-O(E-XISTS FILE fname\$)	Returns 1 if the file specified exists, returns -1 if fname\$ is a directory, otherwise returns 0.
MM.INF-O(E-XISTS DIR dirname\$)	Returns 1 if the directory exists, else 0
MM.INF-O(FREE SPACE)	Returns the amount of free space available on the current drive
MM.INF-O(F-ILESIZE file\$)	Returns the size of file <i>file\$</i> or 0 if not found

ALL variables start with MM., e.g. MM.VER, MM.FLAGS, etc.



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