

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 Copies an area of a specific 'from' framebuffer N, F, or L to another different 'to' framebuffer N, F, or L.
/* ... */ Multi line comment	ARC x, y, r1, [r2], a1, a2 [, c]	BLIT MEMORY Copies an area of memory treated as a packed array of colour nibbles to the current graphical output as specified by FRAMEBUFFER WRITE
ADC FREQUENCY [freq]	This changes the sampling frequency of the ADC conversion without having to close and re-open	BLIT
ADC CLOSE	Releases the pins to normal usage	COMPRESSED Acts the same as BLIT MEMORY but assumes the data is compressed and ignores the top bit in the width and height
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 x1, y1, x2, y2, w, h Copy one section of the display screen to another part of the display
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.	BOX x, y, w, h [, lw] [,c] [,fill] Draws a box on the display with the top left hand corner at 'x' and 'y' with a width of 'w' pixels and a height of 'h' pixels
ADC RUN array1%(), array2%()	Runs the ADC continuously in double buffered mode.	BYTE (var\$, bytено)=value Sets byte <i>bytено</i> in string <i>var\$</i> to integer value <i>value</i> . <i>value</i> can be in the range 0- 255.
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().	CALL usersubname\$ [,user-subparameters,...] Call subroutine <i>usersubname\$</i>
ARRAY INSERT targetarray(), [d1] [,d2] [,d3] [,d4] [,d5], sourcearray()	This is the opposite of ARRAY SLICE	CAT S\$, N\$ Appends <i>N\$</i> to <i>S\$</i>
ARRAY SET value, array()	Sets all elements of array() to value	
	BLIT READ [#]b, x, y, w, h Will copy a portion of the display to the memory buffer '#b'. 32 buffers are available ranging from #1 to #32.	
	BLIT WRITE [#]b, x, y [,mode] Will copy the memory buffer '#b' to the display. 32 buffers are available ranging from #1 to #32.	
	BLIT LOAD[BMP] [#]b, fname\$ [,x] [,y] [,w] [,h] Will load a blit buffer from a 24-bit bmp image file.	
	BLIT CLOSE [#]b Will close the memory buffer '#b'	



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Page 1 of 3.

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Keywords (cont)		Keywords (cont)		Keywords (cont)	
CHAIN fname\$ [cmdline\$]	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 #Nbr	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 dir\$	Changes the current working directory to <i>dir\$</i>	CONTINUE	Skip to the end of a DO FOR or a FOR/NEXT loop	END	Ends the font definition
CIRCLE x, y, r [,lw] [, a] [, c] [, fill]	Draw a circle centered at <i>x</i> and <i>y</i> with a radius of <i>r</i> on the display	COPY fname1\$ TO fname2\$	Copy file <i>fname1\$</i> to new file <i>fname2\$</i>	DEFINEFONT	
CLEAR	Delete all variables	COPY fname\$ TO dirname\$	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	DEVICE	Generate an extremely accurate bit sequence on pin <i>pinno</i>
CLOSE [#]fnbr [, [#]fnbr]	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	BITSTREAM pinno, n_transitions, array%()	
CLS [color]	Clears the screen	RESTART			
CMM2	Loads and or runs a program from disk using the CMM2 program loading mechanism	CPU SLEEP n	Will cause the processors to sleep for <i>n</i> seconds		
COLOR fore [, back]	Sets the default color for commands that display on the screen	CSUB name [type][, type] [, ...]	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 MAP inarray%(), outarray%() [, colormap%()]	Generates RGB888 colors in <i>outarray%</i> from color codes (0- 15) in <i>inarray%</i>	END CSUB	Ends the CSUB definition	MM.DISPLAY	Returns a 1 if a display is configured, else 0
CONFIGURE cfg	Configures a board as per the <i>cfg</i> specified equivalent of OPTION RESET	DATA constant[, constant][, ...] [Stores numerical and string constants to be accessed by READ	MM.ERRNO	A non-zero value means an error occurred
CONFIGURE LIST	Lists all the various configurations available for the firmware version	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
CONST id = expression [, id = expression][, ...]	Creates constant identifier <i>id</i> and sets it to the value of <i>expression</i> . This value cannot be changed once set.			MM.FLAGS	Returns the system flags register
				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

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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Page 3 of 3.

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