

Editing Key	words
ASSEM	Switches into assembler mode.
BANK [bank[- bank][, on/off]]	Display the current bank number, or change to the bank specified. If on/off specified will enable or disable the banks.
BASIC	Switches out of assembler mode.
COMP ["filen- ame"[, devnum]]	Will compile the program in memory and optionally save it to a file. <i>filename</i> must be 12 characters or less if specified.
DELETE [start - end]	Will delete a range of lines from <i>start</i> to <i>end</i> from your program. With no parameters, acts like NEW.
DESC line#, label	Create a subroutine <i>label</i> and start the code at <i>line#</i> .
ERROR	Will display the errors.
EXEC (>) command block	Will run a single line in immediate mode. Shorthand >
FAST	Enables speed up of some commands
FIND text	Searches the program in the current bank for lines containing <i>text</i> . Do not use quotes if searching for keywords. If searching for assembly, put a left bracket in front of the instruction.
LIST [line#[- line#]]	Will display the program in memory. Can optionally only display lines between the given parameters.
LISTER	A scrollable LIST. If <i>line#</i> specified, will start at that line.

Editing Ke	eywords (cont)
LITE [0/1]	With no parameter or a 1, will enable LITE mode. 0 will disable.
LLIST [line#[- line#[, printe- r?]]]	Displays extended details about the program in memory. if the value of <i>printer?</i> is 1, the output will be sent to a printer.
NEW [bank[- bank]]	Clears the current program bank, or banks specified.
OLD [bank[- bank]]	Attempts to restore the program in the current bank, or banks specified.
PLIST [line#[- line#]]	Sends the program LIST to a printer.
QUIT	Quit Vision BASIC.
RENUM start - end, new[, step]	Will renumber the lines from <i>start</i> to <i>end</i> to <i>new</i> , using a <i>step</i> of 10 if not specified.
RUN [line#]	Runs the compiled, in memory program. If the program is not compiled or has been altered, will compile first. If <i>line#</i> specified, will start at that line number, otherwise will start from the first line of the program.
SLOW	Run at normal C64 speeds.
VLIST [num]	Will display all of the variables from the program in memory. If <i>num</i> specified, will send the output to a printer.



[line#]

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programs



Vision BASIC Cheat Sheet

by DNSGeek via cheatography.com/171119/cs/35885/

Disk and File Commands		
DEVICE devnum	Sets the device number for the default device.	
DIR [num]	Lists the current device's directory. If num is supplied, will be sent to a printer	
DISK ["comma- nd"[, devnum]]	Equivalent to OPEN 15,devnum,15,"command":CLOSE 15. Uses default device if not specified. Initializes the device if command not specified.	
GSAVE on	Saves a copy of the C64 RAM to the GeoRAM expanded memory. If <i>on</i> is 1, enables back-up feature.	
LOAD "fil- ename"[, devnum]	Load a file from the default device. If filename not specified, will use last specified filename.	
SAVE "fil- ename"[, devnum]	Save a file to the default device. Filename must be 12 characters or less. If filename not specified, will use last specified filename.	
VERIFY "filename" [, devnum]	Verify the program in memory against a file on the default device. If filename not specified, will use last specified filename.	

Commands	related	to	using	disk	drives	

Variables	
variable\$	At the end of a variable name, a \$ specifies that the variable is a STRING.
CLR	Clears the memory used by all variables.
DECIMAL variable[, variable[,]]]	Creates new decimal variables.
DIM [DECIMAL] variab- le(value)	Create array variable of value size.
GLOBAL	Restores the global variable scope

Variables (cont)	
LET	Assigns a simple value to a simple variable. Useful for speed.
LOCAL	Starts a local scope for variables.
TAG tag = value	Creates a TAG named <i>tag</i> with the value <i>value</i> . Like a label in assembler.
VARIABLES [address]	Moves the program variable table to <i>address</i> or 32768 if not specified.
Variables must	start with a letter, and can be up to 8 characters long

Variables **must** start with a letter, and can be up to 8 characters long.

Numbers and the symbols !, @, #, %, & and ? are allowed in variable names.

Anything past 8 characters is silently ignored.

Variable names can *contain* keywords, but cannot start with keywords.

Strings must be terminated with a dollar (\$) sign.

All variables are assumed to be integer variables by default.

Tags cannot be to the left of an equals sign in a math expression.

Math	
vov AND vov	Performs a logical (bitwise) AND.
vov OR vov	Performs a logical (bitwise) OR.
vov EOR vov	Performs a logical (bitwise) Exclusive OR.
ABS(vov)	Returns the absolute value of vov.
INT(vov)	Returns the integer value of vov, rounded down.
SGN(vov)	Returns the sign of vov.
WHOLE(vov)	Returns the integer value of vov without rounding.
FRAC(vov)	Returns the fractional value of <i>vov</i> , stripped of the sign.
ABS(vov)	Returns the absolute value of vov.
RANDOM [seed]	Initializes the random number table. If no parameter, will use SID voice 3, otherwise will be seeded with seed.
RND [0]	Generate a random number. If 0 supplied, will limit numbers to 0-255, otherwise 0-65535.



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Math (cont)

 π The value of PI in decimal.

Parentheses are **not** allowed in mathematical expressions. e.g. A=4*(3+4) is not allowed and would need to be expressed as A=3+4:A=A*4

Order of operations is **not** followed. All expressions are strictly evaluated from left to right.

e.g. 4+3*5-2*6 would be evaluated as 4+3=7, 7*5=35, 35-2=33, 33*6=198.

The functions USR, FRE, POS, SQR, LOG, EXP, COS, SIN, TAN and ATN are not available.

Speedy Math	
ADD $vop = vov + vov$	
COMPARE vov, vov	Both parameters must be 2 byte ints.
DEC vop	Decrements vop by 1.
DOUBLE vop	Multiplies vop by 2.
HALF vop	Divides vop by 2.
INC vop	Increments vop by 1.
SUBTRACT vop = vov -	VOV

These commands only with with non-arrayed *integer* variables, tags and pointers, except **INC**, **DEC**, **HALF** and **DOUBLE** which also work

on non-arrayed decimal variables.

Bitmap Commands	
BITMAP [bmp, multic- olor, map, drawto, screen, color1, color2, color3, clearcol, clear map]	Turns modes <i>bmp</i> and <i>multicolor</i> on (1) or off (0).
BMPCLR [clearmap[, clearcol]]	Clears the currently visible bitmap screen if <i>clearmap</i> is 1, and color screen if <i>clearcol</i> is set to 1. If neither argument is specified, will clear both.
BMPCOL screen, color1, color2, color3, clearcol[, clearmap]	Sets the bitmap colors that will be used, and defines which screen to use. If clearmap is added and set to 1, will clear the bitmap.

Bitmap Comma	ands (cont)	
BMPLOC map, drawto	map sets with bitmap screen will be visible (0-7). drawto sets with screen will be drawn to with the drawing commands.	
HLINE x, y, len, color	Draws a straight, horizontal line starting at (x, y) and continuing to the right for <i>len</i> pixels with color <i>color</i>	
LIMITS width, height, x- pos, y-pos, colorplot	Limits the area on the bitmap that drawing commands will affect.	
LINE <i>x1</i> , <i>y1</i> [, <i>x2</i> , <i>y2</i> [, <i>color</i>]]	Draws a line on the bitmap from $(x1, y1)$ to $(x2, y2)$, in color <i>color</i> if specified. If $x2$ and $y2$ are not specified, will draw a line from $(x1, y1)$ to the current coordinate.	
PLOT x, y, color	Draws a pixel on the bitmap at coordinates (x, y) in color <i>color</i> .	
VLINE x, y, len, color	Draws a straight, vertical line starting at (x, y) and going down for <i>len</i> pixels with color <i>color</i>	
All parameters can be either values or variables. If a parameter is left off, a default or previous value will be used.		

Sprite	Com	man	ids

Sprite Commands	
ALLMOBS x0, y0, x1, y1,	Allows you to set all of the sprite
x2, y2, x3, y3, x4, y4, x5,	positions in a single command.
y5, x6, y6, x7, y7	
CODE values	Any code following this command will be
	stored in memory at the location
	indicated by the "code" pointer.



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Sprite Commands (cont)		ands (cont)
	COLLISION selection	Copies the collision registers and zeros the copied register. If <i>selection</i> is 0, copies the sprite-to-sprite register, if 1 copies the sprite-to-foreground register.
	DETECT mob#[, mob#[, mob#[,]]]	Used after the COLLISION command. Checks is the specified sprites were involved in a collision.
	MOB number, on, multicolor, priority, x, y, x-add, y- add	Chooses which sprite to make current. Initializes the sprite. <i>number</i> chooses which sprite (0-7). <i>on</i> turns it on or off, <i>multicolor</i> enables or disables multicolor mode, <i>priority</i> enables or disables background priority, <i>x</i> , <i>y</i> choose the initial coordinates, <i>x-add</i> and <i>y-add</i> set the offsets.
	MOBCLR	Clears all of the sprite registers. Recommended to use at the beginning of your program if you're using sprites, and also when you want to clear the screen of sprites.
	MOBCOL color, shared1, shared2	Sets the sprite colors. <i>color</i> sets the color of the current sprite, <i>shared1</i> sets the first color shared by all multicolor sprites, <i>shared2</i> sets the second.
	MOBEXP x- expan, y- expan	Enables and disables the <i>x-expan</i> sion and the <i>y-expan</i> sion of the current sprite.

Sprite Commands (cont)		
MOBPAT shape#, bank	Moves the CODE pointer to point at the specified sprite she's data. <i>shape#</i> specifies the shape to point at, <i>bank</i> specifies the bank where the coded data will be sent.	
MOBSET shape#, number, number, number,	Initialize a sprite from The Spreditor.	
MOBXY x, y, x-add, y-add	Moves the current sprite to the coordinates (x, y). x-add and y-add set the offsets.	
SHAPE byte[, byte[, byte[,]]]	Changes the current sprite's shape. IF more than 1 shape specified, will set the shape for the following sprites.	

Commands begin with MOB as a carryover from Simon's BASIC.

Interrupt Commands		
HALTINT	Stops the interrupt totally, returning interrupts to normal.	
INTEND flag	Should be the last statement in your interrupt routine. If <i>flag</i> is 0, JMP to BASIC's hardware timer routine, 1 will RTI.	
INTERRUPT raster, line#	Create a new raster interrupt at line raster (50-249) which calls the code at <i>line#</i> .	
RASTER raster	Selects the next raster line to interrupt.	
STARTINT	Should be the first command in your interrupt routine.	

Lets you program raster interrupts.

It is critical to halt your interrupts before exiting your program.



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Using Machine Language	
Branching and Jumping	Simply put the line number after the branch or jump command, e.g. <code>JMP1000</code>
Tags and variables	Can be used in place of values and addresses
LABEL	Identical to TAG
ML-safe commands	START, GOTO, GOSUB, RETURN., REM, TAG, PROC, MODULE, LOCAL, GLOBAL, ADD< SUBTRACT, COMPARE, HALF, DOUBLE, VARIABLES, HALT, RESUME, VERSION, DEBUG, STARTINT, RASTER, BYTES, STRINGS
START [* =]address	Specifies the starting location for an ML program. Must be placed at the vey beginning on your ML program, and only used once.
Mnemonics must be enclosed in [] brackets, e.g. 100 [LDA1: ORA #1: STA1]; TURN BASIC ROM ON	

BASIC Keywords	
ASC(string)	Returns the ASCII value of string
BUTTON joynum[, button#]	Returns 1 if the joystick button is pressed, 0 if not. Use <i>button#</i> of 1, 2 or 3 to access those buttons, default is 1,
BYTES count[, byte[, tag[, alignment]]]	When compiling, will insert <i>count</i> bytes of value <i>byte</i> (default 0), with a (string) label of <i>tag</i> , aligned to <i>alignment</i> .
CHR\$(vov[, count])	Appends ASCII character <i>vov</i> to a string, 1 or <i>count</i> times.
CLOCK [jiffies]	Sets the CLOCK to jiffies if specified, or 0 if not.
CLOSE file#, file#,	Close 1 or more files.

A semicolon (;) starts a comment in ML mode.

BASIC Keywords (cont)		
CLS [pokec- ode[, color]]	Clears the current text screen. Uses space if pokecode not specified. Colors will not be changed unless <i>color</i> is specified.	
CMD file#[, string]	Redirects all I/O to file <i>file#</i> . Optionally sends <i>string</i> to the file.	
COPY start, end, new	Copies the memory from addresses <i>start - end</i> to address <i>new</i>	
DATA val, val,	Hold data to be READ later.	
DEBUG 0 / 1	Enable (1) or disable (0) DEBUG mode, which reduces the number of passes for compilation. Will result in slower and larger programs.	
DEF type var[, var, var,]	Allows you to define all variable types in a more structured fashion. <i>type</i> can be TAG, LABEL, INT, INTEGER or DECIMAL.	
DETEXT(type)	Returns how much extended memory of <i>type</i> is attached to the system.	
DO line#, times	Run line <i>line# times</i> times.	
DUP\$(string, count)	Duplicates string string count times.	
ELSE statement	If the prior IF <i>expression</i> evaluated to FALSE, statement will be executed.	
END	End the execution of the program and returns screen to normal.	
FETCH count, destination, reu[, bank]	Copies <i>count</i> bytes from an attached REU at address <i>reu</i> and bank <i>bank</i> to C64 address <i>destination</i>	



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BASIC Keywords (cont)		
FILL start, end[, byte[, step]]	Fills the memory from address <i>start</i> to address <i>end</i> with value <i>byte</i> (default 0) incrementing the address by <i>step</i> (default 1)	
FOR var=start TO end [STEP val]	Defines a FOR loop that iterates variable <i>var</i> from the value <i>start</i> to the value <i>end</i> , defaulting to incrementing by 1 if STEP is not defined, or by <i>val</i> if it is defined.	
GET variable	Read a character and put in it variable	
GET# file#, variable	Read a character from file# and put in it variable	
GOSUB line#[, line#[,]]	Runs a subroutine at <i>line#</i> . If more than 1 line# is specified, will run each one in the order they are specified.	
GOTO tag line_number	Jumps to the <i>line_number</i> or <i>tag</i> in the program	
HALT	Will stop compilation at this point. All previous code will be compiled.	
IF expression [AND OR EOR expression]	Evaluates the <i>expression</i> and sets a flag that will be acted upon when the program reaches a THEN statement.	
INPUT var, var,	Read lines and put the values in var.	
INPUT# file#, var[, var[,]]	Read lines from file file# and store them in var	
JOIN vop = low, high	The opposite of SPLIT	
JOY(<i>joynum</i>)	Returns the value of the joystick port joynum. joynum	

BASIC Keywords (cont)	
KEYPRESS [vov[, vov]]	If vov not specified, will wait for any keypress, otherwise will wait for vov to be pressed. If a second vov is specified will act like an IF block and will be FALSE for first char or TRUE for second char.
LEFT\$(string, count)	Returns <i>count</i> characters from the left of <i>string</i>
LEN(string)	Returns the length of string.
LOC(x, y)	Moves the cursor to location <i>x</i> , <i>y</i> on the current text screen.
LONGPEEK(address)	Will return a single value from <i>address</i> on a SuperCPU.
LONGPOKE address, val, val, val, val,	Will poke into the extended memory of a SuperCPU.
MID\$(string, position, count)	Returns <i>count</i> characters, starting at index <i>position</i> from <i>string</i> .
MODULE filename[, devnum[, address]]*	When compiling, write this section to separate module file <i>filename</i> for reusability. The default device will be used if not specified. Address 49152 will be used for loading if not specified.
MODULE END	The end of the module to be written
NEXT var[, var[,]]	The end of the FOR loop. <i>var</i> must match the FOR loop you are continuing.
ON var GOSUB GOTO line#, line#,	Will jump to <i>line#</i> that matches the value of <i>var</i> .



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is typically 1 or 2.

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BASIC Keywords (cont)		
OPEN file#, dev#, secondary, string	Open a connection to device <i>dev#</i> assigning it to file <i>file#</i> with a secondary parameter of <i>secondary</i> and send <i>string</i> through the open file.	
PADBUT joynum	Returns 1 if the paddle button is pressed, 0 if not.	
PADDLE joynum	Returns the value of the paddle, 0-255. Paddles 1-2 are in <i>joynum</i> 1, 3-4 are in 2. Returned values are bitreversed.	
PAUSE seconds[, jiffies]	Will pause execution for <i>seconds</i> seconds. If an optional <i>jiffies</i> is specified, will pause for an additional (<i>jiffies</i> /60)s.	
PEEK(vov[, index])	Will return the memory at address <i>vov</i> , optionally offset by <i>index</i> .	
POKE address, vov, vov, vov,	Will put values <i>vov</i> in consecutive memory starting at <i>address</i> . Can also be used with strings.	
POLL port#	Tells the C64 which set of paddles you're polling. <i>port#</i> is 1 for joystick port 1, 2 for 2. Allows substitution of the required delay. Read the docs for more info.	
PRINT expression	Prints expression to the current text screen	
PRINT# file#, expression	Print expresion to file file#	
READ vop, vop,	Read values from a DATA statement	
REM	Turns the rest of the line into a comment.	

BASIC Keywords (co	nt)
RESTORE [line#]	Resets the pointer to the start of all DATA statements, or to the DATA statement on line line#
RESUME	Will resume compilation after a HALT. Must be at the beginning of a line, or it will be ignored.
RETURN	Ends a subroutine and sends program flow back to the GOSUB statement.
REUPEEK(address, bank)	Will return the value from an attached REU at address in bank bank
REUPOKE address, bank, val, val, val,	Will write the values to an attached REU starting at <i>address</i> in bank <i>bank</i>
RIGHT\$(string, count)	Returns <i>count</i> characters from the right of <i>string</i>
SPC(vov)	Prints vov spaces
SPLIT <i>low, high[,</i> high2] = vov	Splits a variable into low and high bytes.
STASH count, address, reu[, bank]	Copies <i>count</i> C64 memory bytes at address <i>address</i> to the attached REU address <i>reu</i> in bank <i>bank</i>
STATUS	Reads and clears the STatus
STOP	Stops the program execution but does not reset the screen.
STR\$(vov)	Converts number vov into a string.
STRINGS [size]	With no parameter, stretches the string field to 53247, otherwise to <i>size</i> .



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Vision BASIC Cheat Sheet

by DNSGeek via cheatography.com/171119/cs/35885/

BASIC Keyw	BASIC Keywords (cont)		
SWAP count, c64, reu[, bank]	Swaps the main memory at address <i>c64</i> with the memory on the attached REU at address <i>reu</i> in bank bank		
SWITCH start, end, start2	Swaps the memory at addresses <i>start - end</i> with the memory starting at address <i>start2</i>		
SYS address[, A, X, Y, ST]	Starts execution of ML code at <i>address</i> . If the A, X, Y and ST values are specified, they will be loaded into the registers before starting.		
TAB(vov)	Moves the cursor to vov on the current line.		
THEN statement	If the prior IF <i>expression</i> evaluated to TRUE, statement will be executed.		
TRAP line# [, vop]	Sends control of your program to <i>line#</i> on error. <i>vop</i> if specified must be a non-arrayed int which will have the address of the error stored in it.		
VAL(string)	Returns the mathematical value of string.		
VERSION number	Specifies which version of Vision BASIC needed to compile the block of code.		
WAIT address, and, eor	Will wait for a non-0 result from PEEKing <i>address</i> and filtering with AND <i>and</i> and EOR <i>eor</i>		

FOR-TO-STEP-NEXT loops and DO loops will only work on integer

POKE 2383,0 to disable the PADDLE bit-reversing.

Functions and subroutines		
POINT vop = line#	Sets <i>vop</i> to the address of the compiled code for line <i>line#</i> .	
POINT TAG <i>tag =</i> <i>line#</i>	Creates a tag and points it to the address of the compiled code for line <i>line#</i> .	
PROC tag[. vop[, vop[,]]]	Defines the start of a subroutine named <i>tag</i> with parameters <i>vop</i> .	
PASS <i>vop[, vop[, vop[,]]]</i>	Defines paramaters <i>vop</i> for a subroutine. Must be the first command after PROC if you're passing parameters.	
RETURN	End the subroutine and send execution back to the calling line.	
SEND vov	Will make the subroutine return the value <i>vov</i> . This must be the final command before RETURN if used.	
TAG tag[= vov]	Creates a TAG named <i>tag</i> . If <i>vov</i> is not specified, tag will get the current address in the program. Used like a LABEL in assembler.	

Call a subroutine like

tag.vo p,v op,vop

Strings and string variables cannot be returned from subroutines.

Sound Commands	
ADSR attack, decay, sustain,	Specifies the <i>attack</i> , <i>decay</i> , <i>sustain</i> and <i>release</i> parameters for the current voice.
cutoff freq	Sets the cutoff frequency to <i>freq</i> for the SID filtering system.
FILTER voice1, voice2, voice3,	filtering system. Enables or disables the filters of <i>voice1</i> , <i>voice2</i> , <i>voice3</i> , the output of the <i>external</i> input
ext, resonance	and the resonance value.



variables.

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Sound Commands (cont)			
FREQ freq	Specifies that the current voice will play frequency freq.		
PULSE width	Specifies the pulse waveform width for the current voice.		
SIDCLR	Clears the sound registers		
VOICE num	Chooses which voice will be used (1-3)		
VOL volume, low, band, high, disconnect	Controls the main volume and filter selection. Can enable or disable the <i>low, band</i> and <i>high</i> pass filters. If <i>disconnect</i> is enables, disconnects the output of voice 3.		
WAVE gate, wave, ring, sync test	Enables or disables the <i>gate. wave</i> is 1 (triangle), 2 (sawtooth), 4 (pulse) or 8 (noise). <i>ring</i> chooses ring modulate oscillators. <i>sync</i> chooses sync modulate oscillators. <i>test</i> enables or disables the voice oscillator.		
All parameters can be values or variables. If a parameter is left off, a previously used value will be used, or a 0 if no value has been specified before.			
	The commands FREQ, PULSE, ADSR, and WAVE require you to set a current VOICE before calling them.		
0 disables, 1 enables			

Text Video Commands				
BANK bank	Selects the active 16K memory bank for video. This is not for setting REU banks. You will probably not need to ever use this command.			
BLANK [blank[, bg, bars1, bars2]]	Blanks or restores the screen. 1 blanks the screen, 0 un-blanks. bg changes the background color, 0-15. bars changes the bar colors.			

Text Video Commands (cont)			
CATCH rasterline	Acts like a WAIT command for the rasterline. rasterline can be 0-255.		
CHARPAT character, charset	Moves the "code" pointer to point at a specific character image. <i>character</i> is the character that you want to point at, <i>charset</i> is the character set that the character is in.		
CHARSET charset	Selects the desired character set.		
COLORS text, border, screen, color1, color2, color3	Sets the color registers.		
COPYSET charset[, case]	Copies the C64 character set to location <i>charset</i> . If <i>case</i> is 0, copy uppercase, if 1 copy lowercase.		
EXTENDED on[, color1, color2, color3]	Turns on or off extended color mode. If colors are supplied, will set the 3 background colors.		
LOWERCASE [disable]	Changes the character set to lowercase. If <i>disable</i> is 1, disables keyboard toggling between upper and lower case.		
MULTI on[, color2]	Turns on or off multicolor mode. If colors are specified, will set the background colors.		
NORMAL clear	Resets the screen to normal text mode. 1 will clear the line link table, 0 will not.		



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Text Video Commands (cont)

UPPERCASE Changes the character set to uppercase. If disable is 1, disables keyboard toggling between upper and [disable]

lower case.

PANX Pans the screen horizontally. panvalue (will be bitpanvalue, reversed) can be 0-7 (0=none), if columns is 0, sets columns

38 column screen, 1 sets 40 column screen.

PANY Pans the screen vertically. panvalue (will be bit-reversed) can be 0-7 (3=none). If rows is 0, 24 row panvalue,

screen, if 1, 25 row screen. rows

VIDLOC Moves the text screen to and of the 64 1K screens screen. available. screen chooses which 1K to use, printto chooses which screen to print to (you will probably printto, charset, clear

want this to be equal to screen), charset selects the location of the character set. clear of 1 will clear the

line link table, 0 will not.

POKE 2384,0 to disable the bit-reversing of PANX, PANY.



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