

Editing Keywords

ASSEM

Switches into assembler mode.

C

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Editing Keywords (cont)

BANK Display the current bank number, or change to the
[bank[- bank specified. If on/off specified will enable or
bank][, disable the banks.
on/off]]

Editing Keywords (cont)

BASIC Switches out of assembler mode.



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Editing Keywords (cont)

COMP ["fi- Will compile the program in memory and optionally
lename"[, save it to a file. *filename* must be 12 characters or
devnum]] less if specified.

Editing Keywords (cont)

DELETE Will delete a range of lines from *start* to *end* from your
[start - program. With no parameters, acts like NEW.
end]



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Editing Keywords (cont)

DESC *line#*, Create a subroutine *label* and start the code at
label *line#*.

Editing Keywords (cont)

ERROR Will display the errors.



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Editing Keywords (cont)

EXEC (>) *command* Will run a single line in immediate mode.
block Shorthand >

Editing Keywords (cont)

FAST Enables speed up of some commands



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Editing Keywords (cont)

FIND Searches the program in the current bank for lines containing *text*. Do not use quotes if searching for keywords. If searching for assembly, put a left bracket in front of the instruction.

Editing Keywords (cont)

LIST Will display the program in memory. Can optionally only display lines between the given parameters.
[*line#*] -
[*line#*]]



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Editing Keywords (cont)

LISTER A scrollable LIST. If *line#* specified, will start at that
[*line#*] line.

Editing Keywords (cont)

LITE With no parameter or a 1, will enable LITE mode. 0 will
[0/1] disable.



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Editing Keywords (cont)

LLIST [*line#*[- *line#*[, *printer?*]]] Displays extended details about the program in memory. if the value of *printer?* is 1, the output will be sent to a printer.

Editing Keywords (cont)

NEW [*bank*[- *bank*]] Clears the current program bank, or banks specified.



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Editing Keywords (cont)

OLD *[bank[- bank]]* Attempts to restore the program in the current bank, or banks specified.

Editing Keywords (cont)

PLIST *[line#[- line#]]* Sends the program LIST to a printer.



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Editing Keywords (cont)

QUIT	Quit Vision BASIC.
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Editing Keywords (cont)

RENUM <i>start - end, new[, step]</i>	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.
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Editing Keywords (cont)

RUN Runs the compiled, in memory program. If the program is
[line#] not compiled or has been altered, will compile first. If *line#*
specified, will start at that line number, otherwise will start
from the first line of the program.

Editing Keywords (cont)

SLOW Run at normal C64 speeds.



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Editing Keywords (cont)

VLIST Will display all of the variables from the program in memory.
[*num*] If *num* specified, will send the output to a printer.

Keywords related to writing, editing, modifying and displaying programs

Disk and File Commands

DEVICE *devnum* Sets the device number for the default device.



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Disk and File Commands (cont)

DIR	Lists the current device's directory. If num is supplied, will
<i>[num]</i>	be sent to a printer

Disk and File Commands (cont)

DISK	Equivalent to OPEN 15,devnum,15,"command":CLOSE
<i>["comma- nd", devnum]]</i>	15. Uses default device if not specified. Initializes the device if command not specified.



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Disk and File Commands (cont)

GSAVE Saves a copy of the C64 RAM to the GeoRAM expanded memory. If *on* is 1, enables back-up feature.

Disk and File Commands (cont)

LOAD "*filena-*
me"[, *devnum*] Load a file from the default device. If filename not specified, will use last specified filename.



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Disk and File Commands (cont)

SAVE "*filename*",
devnum] Save a file to the default device. Filename must be 12 characters or less. If filename not specified, will use last specified filename.

Disk and File Commands (cont)

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



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Variables

variable\$ At the end of a variable name, a \$ specifies that the variable is a STRING.

Variables (cont)

CLR Clears the memory used by all variables.



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Variables (cont)

DECIMAL *variable*[, *variable*[, *variable*[, ...]]]
Creates new decimal variables.

Variables (cont)

DIM [DECIMAL] *variable*(-*value*)
Create array *variable* of *value* size.



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Variables (cont)

GLOBAL	Restores the global variable scope
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Variables (cont)

LET	Assigns a simple value to a simple variable. Useful for speed.
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Variables (cont)

LOCAL	Starts a local scope for variables.
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Variables (cont)

TAG <i>tag</i> = <i>value</i>	Creates a TAG named <i>tag</i> with the value <i>value</i> . Like a label in assembler.
----------------------------------	-----------------------------------------------------------------------------------------



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Variables (cont)

VARIABLES Moves the program variable table to *address* or *[address]* 32768 if not specified.

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.



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Math (cont)

$\vee \vee$ OR $\vee \vee$

Performs a logical (bitwise) OR.

Math (cont)

$\vee \vee$ EOR $\vee \vee$

Performs a logical (bitwise) Exclusive OR.

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Math (cont)

ABS(*vor*) Returns the absolute value of *vor*.

Math (cont)

INT(*vor*) Returns the integer value of *vor*, rounded down.

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Math (cont)

SGN(*vor*) Returns the sign of *vor*.

Math (cont)

WHOLE(*vor*) Returns the integer value of *vor* without rounding.

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Math (cont)

FRAC(*von*) Returns the fractional value of *von*, stripped of the sign.

Math (cont)

ABS(*von*) Returns the absolute value of *von*.

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Math (cont)

RANDOM Initializes the random number table. If no parameter, will use SID voice 3, otherwise will be seeded with *seed*.

Math (cont)

RND 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 $vop = vov + vov$



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Speedy Math (cont)

COMPARE *vov*, *vov* Both parameters must be 2 byte ints.

Speedy Math (cont)

DEC *vop* Decrements *vop* by 1.

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Speedy Math (cont)

DOUBLE *vop*

Multiplies *vop* by 2.

Speedy Math (cont)

HALF *vop*

Divides *vop* by 2.

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Speedy Math (cont)

INC *vop* Increments *vop* by 1.

Speedy Math (cont)

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.



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Bitmap Commands

BITMAP [<i>bmp, multicolor, map, drawto, screen, color1, color2, color3, clearcol, clear map</i>]	Turns modes <i>bmp</i> and <i>multicolor</i> on (1) or off (0).
-----------------------------------------------------------------------------------------------------	-----------------------------------------------------------------

Bitmap Commands (cont)

BMPCLR [<i>clear-map, clearcol</i>]]	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.
----------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------



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Bitmap Commands (cont)

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 Commands (cont)

BMPLOC *map* sets with bitmap screen will be visible (0-7). *drawto map, drawto* sets with screen will be drawn to with the drawing commands.



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Bitmap Commands (cont)

HLINE *x*, *y*, *len*, *color*
Draws a straight, horizontal line starting at (*x*, *y*) and continuing to the right for *len* pixels with color *color*

Bitmap Commands (cont)

LIMITS *width*, *height*, *x-pos*, *y-pos*, *colorplot*
Limits the area on the bitmap that drawing commands will affect.



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Bitmap Commands (cont)

LINE	Draws a line on the bitmap from $(x1, y1)$ to $(x2, y2)$, in color <i>color</i> if specified. If <i>x2</i> and <i>y2</i> are not specified, will draw a line from $(x1, y1)$ to the current coordinate.
------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Bitmap Commands (cont)

PLOT <i>x, y, color</i>	Draws a pixel on the bitmap at coordinates (x, y) in color <i>color</i> .
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Bitmap Commands (cont)

VLINE *x, y, len, color* Draws a straight, vertical line starting at (*x, y*) and going down for *len* pixels with color *color*

All parameters can be either values or variables. If a parameter is left off, a default or previous value will be used.

Sprite Commands

ALLMOBS *x0, y0, x1, y1, x2, y2, x3, y3, x4, y4, x5, y5, x6, y6, x7, y7* Allows you to set all of the sprite positions in a single command.



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Sprite Commands (cont)

CODE Any code following this command will be stored in
values.... memory at the location indicated by the "code" pointer.

Sprite Commands (cont)

COLLISION Copies the collision registers and zeros the copied
selection register. If *selection* is 0, copies the sprite-to-sprite
register, if 1 copies the sprite-to-foreground register.



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Sprite Commands (cont)

DETECT *mob#[*, Used after the COLLISION command. Checks is
mob#[, *mob#[*, the specified sprites were involved in a collision.
...]]]

Sprite Commands (cont)

MOB Chooses which sprite to make current. Initializes the
number, sprite. *number* chooses which sprite (0-7). *on* turns it on
on, or off, *multicolor* enables or disables multicolor mode,
multicolor, *priority* enables or disables background priority, *x*, *y*
priority, choose the initial coordinates, *x-add* and *y-add* set the
x, *y*, *x-add*, *y-add* offsets.

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Sprite Commands (cont)

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.

Sprite Commands (cont)

MOBCOL Sets the sprite colors. *color* sets the color of the current sprite, *shared1* sets the first color shared by all multicolor sprites, *shared2* sets the second.



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Sprite Commands (cont)

MOBEXP <i>x-expan, y-expan</i>	Enables and disables the <i>x-expansion</i> and the <i>y-expansion</i> of the current sprite.
--------------------------------	-----------------------------------------------------------------------------------------------

Sprite Commands (cont)

MOBPAT <i>shape#, bank</i>	Moves the CODE pointer to point at the specified sprite <i>shape#</i> , 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.
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Sprite Commands (cont)

MOBSET *shape#, number, number, number, ...* Initialize a sprite from The Spreditor.

Sprite Commands (cont)

MOBXY *x, y, x-add, y-add* Moves the current sprite to the coordinates (*x, y*). *x-add* and *y-add* set the offsets.



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Sprite Commands (cont)

SHAPE Changes the current sprite's shape. IF more than 1
byte[, byte[, shape specified, will set the shape for the following
byte[, ...]]] sprites.

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

Interrupt Commands

HALTINT Stops the interrupt totally, returning interrupts to normal.



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Interrupt Commands (cont)

INTEND Should be the last statement in your interrupt routine. If
flag *flag* is 0, JMP to BASIC's hardware timer routine, 1 will
RTI.

Interrupt Commands (cont)

INTERRUPT Create a new raster interrupt at line *raster* (50-249)
raster, line# which calls the code at *line#*.



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Interrupt Commands (cont)

RASTER *raster* Selects the next raster line to interrupt.

Interrupt Commands (cont)

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>
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Using Machine Language (cont)

Tags and variables	Can be used in place of values and addresses
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Using Machine Language (cont)

LABEL	Identical to TAG
-------	------------------

Using Machine Language (cont)

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
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Using Machine Language (cont)

START Specifies the starting location for an ML program. Must
[* = be placed at the very beginning on your ML program, and
]address only used once.

Mnemonics must be enclosed in [] brackets, e.g.

```
100 [LDA1: ORA #1: STA1]; TURN BASIC ROM ON
```

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

BASIC Keywords

ASC(*string*) Returns the ASCII value of *string*



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BASIC Keywords (cont)

BUTTON Returns 1 if the joystick button is pressed, 0 if not.
joynum[, Use *button#* of 1, 2 or 3 to access those buttons,
button#] default is 1,

BASIC Keywords (cont)

BYTES *count*[, When compiling, will insert *count* bytes of value
byte[, *tag*[, *byte* (default 0), with a (string) label of *tag*, aligned
alignment]]] to *alignment*.



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BASIC Keywords (cont)

CHR\$(*vor* [, *count*]) Appends ASCII character *vor* to a string, 1 or *count* times.

BASIC Keywords (cont)

CLOCK [*jiffies*] Sets the CLOCK to *jiffies* if specified, or 0 if not.



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BASIC Keywords (cont)

CLOSE *file#, file#, ...* Close 1 or more files.

BASIC Keywords (cont)

CLS Clears the current text screen. Uses space if *pokecode* not specified. Colors will not be changed unless *color* is specified.

[pokecode[, color]]



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BASIC Keywords (cont)

CMD *file#*[, *string*] Redirects all I/O to file *file#*. Optionally sends *string* to the file.

BASIC Keywords (cont)

COPY *start*, *end*, *new* Copies the memory from addresses *start* - *end* to address *new*



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BASIC Keywords (cont)

DATA *val, val, ...* Hold data to be READ later.

BASIC Keywords (cont)

DEBUG Enable (1) or disable (0) DEBUG mode, which reduces
0 / 1 the number of passes for compilation. Will result in slower
and larger programs.



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BASIC Keywords (cont)

DEF *type* *var*[, *var*,
var, ...] Allows you to define all variable types in a more structured fashion. *type* can be TAG, LABEL, INT, INTEGER or DECIMAL.

BASIC Keywords (cont)

DETEXT(*type*) Returns how much extended memory of *type* is attached to the system.



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BASIC Keywords (cont)

DO *line#, times* Run line *line# times* times.

BASIC Keywords (cont)

DUP\$(*string, count*) Duplicates string *string count* times.

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BASIC Keywords (cont)

ELSE If the prior IF *expression* evaluated to FALSE,
statement *statement* will be executed.

BASIC Keywords (cont)

END End the execution of the program and returns screen to
normal.



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BASIC Keywords (cont)

FETCH *count*, Copies *count* bytes from an attached REU at
destination, *reu*[, address *reu* and bank *bank* to C64 address
bank] *destination*

BASIC Keywords (cont)

FILL *start*, Fills the memory from address *start* to address *end*
end[, *byte*[, with value *byte* (default 0) incrementing the address
step]] by *step* (default 1)



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BASIC Keywords (cont)

FOR *var*=*start*
TO *end*
[STEP
val]

Defines a FOR loop that iterates variable *var* from the value *start* to the value *end*, defaulting to incrementing by 1 if STEP is not defined, or by *val* if it is defined.

BASIC Keywords (cont)

GET *variable* Read a character and put in it *variable*

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BASIC Keywords (cont)

GET# <i>file#</i> , <i>variable</i>	Read a character from <i>file#</i> and put in it <i>variable</i>
----------------------------------------	---------------------------------------------------------------------

BASIC Keywords (cont)

GOSUB <i>line#</i> [, <i>line#</i> [, ...]]	Runs a subroutine at <i>line#</i> . If more than 1 <i>line#</i> is specified, will run each one in the order they are specified.
---------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------



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BASIC Keywords (cont)

GOTO *tag / line_number* Jumps to the *line_number* or *tag* in the program

BASIC Keywords (cont)

HALT Will stop compilation at this point. All previous code will be compiled.



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BASIC Keywords (cont)

IF <i>expression</i>	Evaluates the <i>expression</i> and sets a flag that will
[AND OR EOR	be acted upon when the program reaches a
<i>expression</i>]	THEN statement.

BASIC Keywords (cont)

INPUT <i>var, var, ...</i>	Read lines and put the values in <i>var</i> .
----------------------------	-----------------------------------------------



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BASIC Keywords (cont)

INPUT# *file#*, *var*[, *var*[, ...]] Read lines from file *file#* and store them in *var*

BASIC Keywords (cont)

JOIN *vop* = *low*, *high* The opposite of SPLIT



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BASIC Keywords (cont)

JOY(*joynum*) Returns the value of the joystick port *joynum*. *joynum* is typically 1 or 2.

BASIC Keywords (cont)

KEYPRESS 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.



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BASIC Keywords (cont)

LEFT\$(*string*,
count) Returns *count* characters from the left of
string

BASIC Keywords (cont)

LEN(*string*) Returns the length of *string*.



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BASIC Keywords (cont)

LOC(*x*,
y) Moves the cursor to location *x*, *y* on the current text screen.

BASIC Keywords (cont)

LONGPEEK(*address*) Will return a single value from *address* on a SuperCPU.



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BASIC Keywords (cont)

LONGPOKE *address, val,* Will poke into the extended memory of
val, val, ... a SuperCPU.

BASIC Keywords (cont)

MID\$(*string,* Returns *count* characters, starting at index
position, count) *position* from *string*.



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BASIC Keywords (cont)

MODULE When compiling, write this section to separate module
filename[, file *filename* for reusability. The default device will be
devnum[, used if not specified. Address 49152 will be used for
address]]* loading if not specified.

BASIC Keywords (cont)

MODULE END The end of the module to be written



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BASIC Keywords (cont)

NEXT *var*[, *var*[, ...]] The end of the FOR loop. *var* must match the FOR loop you are continuing.

BASIC Keywords (cont)

ON *var* GOSUB | GOTO *line#*, *line#*, ... Will jump to *line#* that matches the value of *var*.



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BASIC Keywords (cont)

OPEN *file#*, Open a connection to device *dev#* assigning it to file
dev#, *file#* with a secondary parameter of *secondary* and
secondary, send *string* through the open file.
string

BASIC Keywords (cont)

PADBUT *joynum* Returns 1 if the paddle button is pressed, 0 if
not.



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BASIC Keywords (cont)

PADDLE Returns the value of the paddle, 0-255. Paddles 1-2 are in *joynum* 1, 3-4 are in 2. Returned values are bit-reversed.

BASIC Keywords (cont)

PAUSE Will pause execution for *seconds* seconds. If an optional *jiffies* is specified, will pause for an additional (*jiffies*/60)s.



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BASIC Keywords (cont)

PEEK(*vov*[,
index]) Will return the memory at address *vov*, optionally
offset by *index*.

BASIC Keywords (cont)

POKE *address*, Will put values *vov* in consecutive memory
vov, *vov*, *vov*, ... starting at *address*. Can also be used with strings.



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BASIC Keywords (cont)

POLL Tells the C64 which set of paddles you're polling. *port#* is 1
port# for joystick port 1, 2 for 2. Allows substitution of the required
delay. Read the docs for more info.

BASIC Keywords (cont)

PRINT *expression* Prints *expression* to the current text screen



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BASIC Keywords (cont)

PRINT# *file#*, *expression*

Print *expression* to file *file#*

BASIC Keywords (cont)

READ *vop*, *vop*, ...

Read values from a DATA statement

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BASIC Keywords (cont)

REM	Turns the rest of the line into a comment.
-----	--------------------------------------------

BASIC Keywords (cont)

RESTORE	Resets the pointer to the start of all DATA statements, or to the DATA statement on line <i>line#</i>
---------	-------------------------------------------------------------------------------------------------------



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BASIC Keywords (cont)

RESUME Will resume compilation after a HALT. **Must** be at the beginning of a line, or it will be ignored.

BASIC Keywords (cont)

RETURN Ends a subroutine and sends program flow back to the GOSUB statement.



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BASIC Keywords (cont)

REUPEEK(*address*, *bank*) Will return the value from an attached REU at *address* in bank *bank*

BASIC Keywords (cont)

REUPOKE *address*, *bank*, *val*, *val*, *val*, ... Will write the values to an attached REU starting at *address* in bank *bank*



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BASIC Keywords (cont)

RIGHT\$(<i>string</i> , <i>count</i>)	Returns <i>count</i> characters from the right of <i>string</i>
--------------------------------------------	--------------------------------------------------------------------

BASIC Keywords (cont)

SPC(<i>vov</i>)	Prints <i>vov</i> spaces
-------------------	--------------------------



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BASIC Keywords (cont)

SPLIT *low, high[, high2]* = Splits a variable into low and high
vov bytes.

BASIC Keywords (cont)

STASH *count, Copies count C64 memory bytes at address
address, reu[, address to the attached REU address reu in bank
bank]* bank



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BASIC Keywords (cont)

STATUS	Reads and clears the STatus
--------	-----------------------------

BASIC Keywords (cont)

STOP	Stops the program execution but does not reset the screen.
------	------------------------------------------------------------



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BASIC Keywords (cont)

STR\$(<i>vvv</i>)	Converts number <i>vvv</i> into a string.
---------------------	-------------------------------------------

BASIC Keywords (cont)

STRINGS <i>[size]</i>	With no parameter, stretches the string field to 53247, otherwise to <i>size</i> .
--------------------------	---------------------------------------------------------------------------------------



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BASIC Keywords (cont)

SWAP *count*, Swaps the main memory at address *c64* with the
c64, *reu*[, memory on the attached REU at address *reu* in bank
bank] *bank*

BASIC Keywords (cont)

SWITCH *start*, Swaps the memory at addresses *start* - *end* with
end, *start2* the memory starting at address *start2*



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BASIC Keywords (cont)

SYS Starts execution of ML code at *address*. If the A, X, Y and ST values are specified, they will be loaded into the registers before starting.

address,
A, X, Y,
ST]

BASIC Keywords (cont)

TAB(*von*) Moves the cursor to *von* on the current line.



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BASIC Keywords (cont)

THEN	If the prior IF <i>expression</i> evaluated to TRUE,
<i>statement</i>	<i>statement</i> will be executed.

BASIC Keywords (cont)

TRAP	Sends control of your program to <i>line#</i> on error. <i>vop</i> if
<i>line#</i> [,	specified must be a non-arrayed int which will have the
<i>vop</i>]	address of the error stored in it.



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BASIC Keywords (cont)

`VAL(string)` Returns the mathematical value of *string*.

BASIC Keywords (cont)

`VERSION number` Specifies which version of Vision BASIC needed to compile the block of code.



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BASIC Keywords (cont)

WAIT Will wait for a non-0 result from PEEKing *address* and filtering with AND *and* and EOR *eor* and, *eor*

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

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

Functions and subroutines

POINT *vop* = Sets *vop* to the address of the compiled code for *line#* line *line#*.



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Functions and subroutines (cont)

POINT TAG	Creates a tag and points it to the address of the
<i>tag = line#</i>	compiled code for line <i>line#</i> .

Functions and subroutines (cont)

PROC <i>tag[. vop[,</i>	Defines the start of a subroutine named <i>tag</i>
<i>vop[, ...]]]</i>	with parameters <i>vop</i> .



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Functions and subroutines (cont)

PASS *vop*[, *vop*[, *vop*[, ...]]] Defines parameters *vop* for a subroutine. Must be the first command after PROC if you're passing parameters.

Functions and subroutines (cont)

RETURN End the subroutine and send execution back to the calling line.



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Functions and subroutines (cont)

SEND Will make the subroutine return the value *vov*. This must be
vov the final command before RETURN if used.

Functions and subroutines (cont)

TAG Creates a TAG named *tag*. If *vov* is not specified, tag will get
tag = the current address in the program. Used like a LABEL in
vov assembler.

Call a subroutine like

`tag.vop, vop, vop`

Strings and string variables cannot be returned from subroutines.



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Sound Commands

ADSR <i>attack</i> , <i>decay</i> , <i>sustain</i> , <i>release</i>	Specifies the <i>attack</i> , <i>decay</i> , <i>sustain</i> and <i>release</i> parameters for the current voice.
---------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

Sound Commands (cont)

CUTOFF <i>freq</i>	Sets the cutoff frequency to <i>freq</i> for the SID filtering system.
-----------------------	---------------------------------------------------------------------------



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Sound Commands (cont)

FILTER *voice1*,
voice2, *voice3*,
ext, *resonance* Enables or disables the filters of *voice1*, *voice2*,
voice3, the output of the *external* input and the
resonance value.

Sound Commands (cont)

FREQ *freq* Specifies that the current voice will play frequency *freq*.



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Sound Commands (cont)

PULSE <i>width</i>	Specifies the pulse waveform width for the current voice.
-----------------------	-----------------------------------------------------------

Sound Commands (cont)

SIDCLR	Clears the sound registers
--------	----------------------------



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Sound Commands (cont)

VOICE *num* Chooses which voice will be used (1-3)

Sound Commands (cont)

VOL Controls the main volume and filter selection. Can enable or disable the *low*, *band* and *high* pass filters. If *disconnect* is enables, disconnects the output of voice 3.

volume,
low, *band*,
high,
disconnect

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Sound Commands (cont)

WAVE Enables or disables the *gate*. *wave* is 1 (triangle), 2 (sawtooth), 4 (pulse) or 8 (noise). *ring* chooses ring modulate oscillators. *sync* chooses sync modulate oscillators. *test* enables or disables the voice oscillator.

gate,
wave,
ring,
sync
test

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 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.

bank



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Text Video Commands (cont)

BLANK Blanks or restores the screen. 1 blanks the screen, 0
[blank], *bg*, un-blanks. *bg* changes the background color, 0-15.
bars1, *bars* changes the bar colors.
bars2]]

Text Video Commands (cont)

CATCH Acts like a WAIT command for the rasterline.
rasterline rasterline can be 0-255.



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Text Video Commands (cont)

CHARPAT Moves the "code" pointer to point at a specific
character, character image. *character* is the character that you
charset want to point at, *charset* is the character set that the
character is in.

Text Video Commands (cont)

CHARSET *charset* Selects the desired character set.



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Text Video Commands (cont)

COLORS *text, border, screen, color1, color2, color3* Sets the color registers.

Text Video Commands (cont)

COPYSET Copies the C64 character set to location *charset*. If *charset* is 0, copy uppercase, if 1 copy lowercase.
charset,
case



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Text Video Commands (cont)

EXTENDED *on*[, *color1*, *color2*, *color3*] Turns on or off extended color mode. If colors are supplied, will set the 3 background colors.

Text Video Commands (cont)

LOWERCASE [*disable*] Changes the character set to lowercase. If *disable* is 1, disables keyboard toggling between upper and lower case.



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Text Video Commands (cont)

MULTI *on*[, *color1*, *color2*] Turns on or off multicolor mode. If colors are specified, will set the background colors.

Text Video Commands (cont)

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 lower case.

Text Video Commands (cont)

PANX Pans the screen horizontally. *panvalue* (will be bit-reversed) can be 0-7 (0=none), if *columns* is 0, sets 38 column screen, 1 sets 40 column screen.



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Text Video Commands (cont)

PANY Pans the screen vertically. *panvalue* (will be bit-reversed) can be 0-7 (3=none). If *rows* is 0, 24 row screen, if 1, 25 row screen.

Text Video Commands (cont)

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