Foenix F256jr BASIC Reference Manual

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Introduction

This manual is meant to be as complete as possible an introduction to the various hardware features of the F256jr. In it, I will attempt to explain each of the major subsystems of the F256jr and provide simple but practical examples of their use.

About the Machine

Ports

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IEC Serial Port supports the Commodore serial bus. A Commodore disk drive (1541, 1571, 1581, *etc.*), a Commodore compatible serial printer, or other device supporting the Commodore serial bus can be connected here.

Example: Print an A to the Screen

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lda $0001        ; Save the current MMU setting
pha

lda #$02         ; Swap I/O Page 2 into bank 6
sta $0001

lda #'A'         ; Write 'A' to the upper left corner
sta $C000

pla              ; Restore the old MMU setting
sta $0001
```

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Writing Programs in SuperBASIC

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Using Procedures

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Variables, arrays and typing

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Graphics

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Sprites

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Sound

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Cross Development of BASIC Programs

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```

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Keyword Reference

This describes the keywords in SuperBASIC. Some that are naturally grouped together, such as graphics, have their own section.

!

! is an indirection operator that does a similar job to DEEK and DOKE, e.g. accesses memory. It can be used either in unary fashion (!47 reads the word at location 47) or binary (a!4 reads the word at the value in address a+4). It can also appear on the left-hand side of an assignment statementm when it functions as a DOKE, writing a 16 bit value in low/high order. It reads or writes a 16 bit address in the 6502 memory map.

Example:

```
10 !a = 42
20 print !a
30 print a!b
40 a!b=12
```

' and Rem

Comment. ' and rem are synonyms. The rest of the line is ignored. The only difference between the two is when listing, ' comments show up in reverse to highlight them. Remarks should be in quotes for syntactic consistency.

Example: Simple comments

```
10 ' "This is a title comment"
20 REM
30 REM "Another comment"
```

abs()

Returns the absolute value of the parameter

Example:

```
10 print abs(-4)
```

alloc()

Allocate the given number of bytes of memory and return the address. Can be used for data structures or program memory for the assembler.

Example:

```
10 myAssemblerCode = alloc(128)
```

asc()

Returns the ASCII value of the first character in the string, or zero if the string is empty.

Example:

```
10 print asc(''*'')
```

and $

and $ are used to type variables. # is a floating point value, $ is a string. The default type is integer. Variables are not stored internally by name but by reference. This means they are quick to access but means they are always in existence from the start of a program if used in it. Integers are 32 bit ; Floats have a 31 bit mantissa and byte exponent. So variables and arrays are as follows:

Example:

```
100 an_integer  = 42
110 a_float#  = 3.14159
120 a_string$ = ''hello world''
```

?

? is an indirection operator that does a similar job to PEEK and POKE, e.g. accesses memory. It is the same as ? except it operates on a byte level.

Example:

```
100 ?a = 42
110 print ?a
120 print a?b
130 a?b=12
```

$

Hexadecimal constant prefix. $2A is the same as the decimal constant 42.

Example:

```
100 print \$2a
110 !\$7ffe = 31702
```

*

Multiply

Example:

```
100 print 4*2
```

+

Add or string concatenation.

Example:

```
100 sum = 4+2
110 prompt$ = ''hello ''+''world !''
```

-

Subtract

Example:

```
100 print 44 - 2
```

%

Binary modulus operator. The second value must be non-zero.

Example:

```
100 print 42 \% 5
```

.

Sets the following label to the current assembler address. So the example below sets the label 'mylabel' at the current address and you can write things like bra mylabel. Note also that this is an integer variable.

Example:

```
100 .mylabel
```

and

Signed division. An error occurs if the divisor is zero. Backslash is integer division, forwar slash returns a floating point value.

```
100 print 22//7
110 print 22\\7
```

< <= <> = > >=

Comparison binary operators, which return 0 for false and -1 for true. They can be used to either compare two numbers or two strings.

Example:

```
100 if a<42 then "a is not the answer to life the universe and everything"
110 if name$="" then input name$
```

@

Returns the address of a l-expr, normally this is a variable of some sort, but it can be an array element or even an indirection. (print @!42 prints 42, the address of expression !42, not that it's useful at all ….)

Example:

```
100 print @fred, @a(4)
```

&

Binary and operator. This is a binary operator not a logical, e.g. it is the binary and not a logical and so it can return values other than true and false

Example:

```
100 print count \& 7
```

XOR

Binary exclusive or operator. This is a binary operator not a logical, e.g. it is the binary and not a logical and so it can return values other than true and false

Example:

```
100 print a  $0e
```

|

Binary or operator. This is a binary operator not a logical, e.g. it is the binary and not a logical and so it can return values other than true and false

Example:

```
100 print read.value | 4
```

« »

Binary operators which shift an integer left or right a certain number of times logically. Much quicker than multiplication.

Example:

```
100 print a << 2,32 >> 2
```

assemble

Initialises an assembler pass. Apart from the simplest bits of code, the assembler is two pass. It has two parameters. The first is the location in memory the assembled code should be stored, the second is the mode. At present there are two mode bits ; bit 0 indicates the pass (0 1st pass, 1 2nd pass) and bit 1 specifies whether the code is listed as it goes. Normally these values will be 0 and 1, as the listing is a bit slow. 6502 mnemonics are typed as is. Two passes will normally be required by wrapping it in a for/next loop

Example:

```
100 assemble $6000,1:lda #42:sta count:rts
```

Normally these are wrapped in a loop for the two passes for forward references.

Example:

```
100 for pass = 0 to 1
110 assemble $6000,pass *2
120 bra forward
130 <some code>
140 .forward:rts
150 next
```

This is almost identical to the BBC Microcomputer's inline assembler.

assert

Every good programming language should have assert. It verifies contracts and detects error conditions. If the expression following is zero, an error is produced.

Example:

```
100 assert myage = 42
```

bitmap

Turns the bitmap on or off, or clears it. Only one bitmap is used, and it is located at $10000 in F256 Memory Space. Can be postfixed with ON OFF or CLEAR with a colour.

Example:

```
100 bitmap on:bitmap clear \$1c
```

chr$()

Convert an ASCII integer to a single character string.

Example:

```
100 print chr\$(42)
```

circle

Draws a circle, using the standard syntax. The vertical height defines the radius of the circle. See the section on graphics for drawing options

Example:

```
100 circle here solid to 200,200
```

clear

Clears all variables to zero or empty string, and erases all arrays. Done when a program is RUN

Example:

```
100 clear
```

deek() peek()

Deek and Peek read two or one bytes respectively from the 6502 memory

Example:

```
100 print deek(42),peek(1)
```

doke poke

Doke and Poke write two or one bytes respectively to 6502 memory

Example:

```
100 poke 4096,1: doke \$c004,\$a705
```

dim

Dimension number or string arrays with up to two dimensions, with a maximum of 254 elements in each dimension.

Example:

```
100 dim a\$(10),a_sine#(10)
110 dim name\$(10,2)
```

end

Ends the current program and returns to the command line

Example:

```
100 end
```

event()

Event tracks time. It is normally used to activate object movement or events in a game or other events, and generates true at predictable rates. It takes two parameters ; a variable and an elapsed time. If that variable is zero, then this function doesn't return true until after that many tenths of seconds has elapsed. If it is non-zero, it tracks repeated events, so if you have event(evt1,70) this will return true every second – the clock operates at the timer rate, 70Hz. Note that if a game pauses the event times will continue, so if you use it to have an event every 20 seconds, this will work – but if you pause the game, then it will think the game time has elapsed. One way out is to zero the event variables when leaving pause – this will cause it to fire after another 20 seconds. If the event variable is set to -1 it will never fire, so this can be used to create one shots by setting it to -1 in the conditional part of the line

Example:

```
100 if event(event_move,10) then move()
```

false

Returns the constant zero.

Example:

```
100 print false
110 for to/downto next
```

Loop which repeats code a fixed number of times, which must be executed at least once. The step is 1 for to and -1 for downto. The final letter on next is removed.

Example:

```
100 for i = 1 to 10:print i:next i
110 for i = 10 downto 1:print i:next
```

frac()

Return the fractional part of a number

Example:

```
100 print frac(3.14159)
```

gfx

Sends three parameter command directly to the graphics subsystem. Often the last two parameters are coordinates (not always). It is not advised to use this for general use as programs would be somewhat unreadable. This is a direct call to the graphics library.

```
100 gfx 22,130,100
```

gosub

Call a routine at a given line number. This is provided for compatibility only. Do not use it except for typeins of old listings or I will hunt you down and torture you.

Example:

```
100 gosub 1000
```

goto

Transfer execution to given line number. See GOSUB ; same result. If it's for typing in old programs, fair enough, but please don't use it for new code.

Example:

```
100 goto 666:rem ''will happen if you use goto. you don't need it''
```

hit()

Tests if two sprites overlap. This is done using a box test based on the size of the sprite (e.g. 8x8,16x16,24x24,32x32) The value returned is zero for no collision, or the lower of the two coordinate differences from the centre, approximately. This only works if sprites are positioned via the graphics system ; there is no way of reading Sprite memory to ascertain where the physical sprites are.

Example:

```
100 print hit(1,2)
```

if then else endif

If has two forms. The first is classic BASIC, e.g. if <condition> then <do something>

Example:

```
100 if name=''benny'' then my_iq = 70
```

The second form is more complex. It allows multi line conditional execution, with an optional else clause. This is why there is a death threat attached to GOTO. This is better. Note the endif is mandatory, you cannot use a single line if then else. The instruction does not have to all be on the same line.

Example:

```
100 if age < 18:print ''child'':else:print ''adult'':endif
```

image

Draws a possibly scaled or flipped sprite image on the bitmap, using the standard syntax. Flipping is done using bits 7 and 6 of the mode (e.g. 80 and 40) in the colour option. This requires both sprites and bitmap to be on. For more information see the graphics section.

Example:

```
100 image 4 dim 3 colour 0,$80 to 100,100
```

input

Input uses the same syntax as print, except that where there is a variable a value is entered into that variable, rather than the variable being printed.

Example:

```
100 input a\$
```

int()

Returns the integer part of a number

Example:

```
100 print int(3.14159)
```

isval()

This is a support for val and takes the same parameter, a string This deals with the problem with val() that it errors if you give it a non-numeric value. This checks to see if the string is a valid number and returns -1 if so, 0 if it is not.

Example:

```
100 print isval(''42'')
110 print isval(''i like chips in gravy'')
```

joyb()

Returns a value indicating the status of the fire buttons on a gamepad, with the main fire button being bit 0. Takes a single parameter, the number of the gamepad.

Example:

```
100 if joyb(0) & 1 then fire()
```

joyx() joyy()

Returns the directional value of a gamepad in the x and y axes respectively as -1,0 or 1, with 1 being right and down. Each takes a single parameter which is the number of the pad.

Example:

```
100 x = x + joyx(0)
```

left$()

Returns several characters from a string counting from the left

Example:

```
100 print left\$("mystring",4)
```

len()

Returns the length of the string as an integer

Example:

```
100 print len(''hello, world'')
```

let

Assignment statement. The LET is optional. You can also use a where a is a reference ; so ptr = a ; ptr = 42 is the same in practice as a = 42.

Example:

```
100 let a = 42
110 a\$=''hello''
120 a\#=22.7
```

line

Draws a line, using the standard syntax which is explained in the graphics section.

Example:

```
100 line 100,100 colour $e0 to 200,200
```

list

Lists the program. It is possible to list any part of the program using the line numbers, or list a procedure by name.

Example:

```
100 list
110 list 1000
120 list 100,200
130 list ,400
140 list myfunction()
```

local

Defines the list of variables (no arrays allowed) as local to the current procedure. The locals are initialised to an empty string or zero depending on their type.

Example:

```
100 local test\$,count
```

max() min()

Returns the largest or smallest of the parameters, there can be any number of these (at least one). You can't mix strings and integers.

Example:

```
100 print max(3,42,5)
```

mid$()

Returns a subsegment of a string, given the start position (first character is 1) and the length, so mid$("abcdef",3,2) returns "cd".

Example:

```
100 print mid\$(''hello'',2,3)
110 print mid\$(''another word'',2,99)
```

new

Erases the current program

Example:

```
100 new
```

not()

Unary operator returning the logical not of its parameter, e.g. 0 if non-zero -1 otherwise.

Example:

```
100 print not(42)
```

palette

Sets the graphics palette. The parameters are the colour id and the red, green and blue graphics component. On start up, the palette is rrrgggbb

Example:

```
100 palette 1,255,128,0
```

playing()

Returns true if a channel is currently playing a sound.

Example:

```
100 print playing(0)
```

plot

Plot a point in the current colour using the standard syntax which is described in the graphics section.

Example:

```
100 plot to 100,200
```

print

Prints to the current output device, either strings or numbers (which are preceded by a space). Print a ' goes to the next line. Print a , goes to the next tab stop. A return is printed unless the command ends in ; or , .

Example:

```
100 print 42,''hello''''''world''
```

proc endproc

Simple procedures. These should be used rather than gosub. Or else. The empty brackets are mandatory even if there aren't any parameters (the aim is to use value parameters).

Example:

```
100 printmessage(''hello'',42)
110 end
120 proc printmessage(msg\$,n)
130 print msg\$+''world  x ''+str\$(n)
140 endproc
```

rnd() random()

Generates random numbers. this has two forms, which is still many fewer than odo. rnd() behaves like microsoft basic, negative numbers set the seed, 0 repeats the last value, and positive numbers return an integer 0 <= n < 1. random(n) returns a number from 0 to n-1

Example:

```
100 print rnd(1),random(6)
```

read / data

Reads from DATA statements the types must match. For syntactic consistency, string data must be in quote marks

Example:

```
100 read a\$,b
110 data ''hello world''
120 data 59
```

rect

Draws a rectangle, using the standard syntax described in the graphics section

Example:

```
100 rect 100,100 colour $ff to 200,200
```

restore

Resets the data pointer to the start of the program

Example:

```
100 restore
```

repeat until

Conditional loop, which is tested at the bottom.

Example:

```
100 count = 0
110 repeat
120 count = count + 1:print count
130 until count = 10
```

return

Return from GOSUB call. You can make up your own death threats.

Example:

```
100 return
```

right$()

Returns several characters from a string counting from the right

Example:

```
100 print right\$("last four characters",4)
```

run

Runs the current program after clearing variables as for CLEAR.

```
100 run
```

sgn()

Returns the sign of an number, which is -1 0 or 1 depending on the value.

Example:

```
100 print sgn(42)
```

sound

Generates a sound on one of the channels. There are four channels, corresponding to the. Channel 3 is a noise channel, channels 0-2 are simple square wave channels generating one note each. Sound has two forms

Example:

```
100 sound 1,500,10
```

generates a sound of pitch 1000 which runs for about 10 ticks (one tick is about 0.5s). The actual frequency is 111,563 / <pitch value>. The pitch value can be from 1 to 1023 Sounds can be queued up , so you can play 3 notes in a row e.g.

Example:

```
100 sound 1,1000,10:sound 1,500,10:sound 1,250,10
```

An adjuster value can be added which adds a constant to the pitch every tick, which allows the creation of some simple warpy effects.

Example:

```
100 sound 1,500,10,10
```

Creates a tone which drops as it plays (higher pitch values are lower frequency values) Channel 3 operates slightly differently. It generates noises which can be modulated by channel 2- see the SN76489 data sheet. However, there are currently 8 sounds, which are accessed by the pitch being 16 times the sound number.

Example:

```
100 sound 3,6*16,10
```

Is an explosiony sort of sound. You can just use the constant 96 of course instead. Finally this turns off all sound and empties the queues. Sound off

spc()

Return a string consisting of a given number of spaces

Example:

```
100 a\$ = spc(32)
```

sprite

Manipulate a hardware sprite using the standard modifiers. Also supported are sprite image <n> which turns a sprite on and selects image <n> to be used for it, and sprite off, which turns a sprite off. Sprite data is stored at $30000 onwards, beginning with a 512 byte index. Sprites cannot be scaled and flipped as the hardware does not permit it. Sprites have their own section.

Example:

```
100 sprite 4 image 2 to 50,200
```

sprites

Enables and Disables all sprites. When turned on, all the sprite records are cleared to zero.

Example:

```
100 sprites on
```

stop

Stops program with an error

Example:

```
100 stop
```

text

Draws a possibly scaled or flipped string from the standard font on the bitmap, using the standard syntax. Flipping is done using bits 7 and 6 of the mode (e.g. $80 and $40) in the colour option,

Example:

```
100 text ''hello'' dim 2 colour 3 to 100,100
```

timer()

Returns the current value of the 70Hz Frame timer, which will wrap round in a couple of days.

Example:

```
100 print timer()
```

val()

Converts a number to a string. There must be some number there e.g. "-42xxx" works and returns 42 but "xxx" returns an error. To make it useable use the function isval() which checks to see if it is valid.

Example:

```
100 print val(''42'')
110 print val(''413.22'')
```

str$()

Converts a string to a number, in signed decimal form.

Example:

```
100 print str$(42),str$(412.16)
```

true

Returns the constant -1

Example:

```
100 true
```

while wend

Conditional loop with test at the top

Example:

```
100 islow = 0
110 while islow < 10
120 print islow
130 islow = islow + 1
140 wend
```

zap ping shoot and explode

Simple commands that generate a simple sound effect

Example:

```
100 ping:zap:explode
```