Frequently Encountered Problem

~~20130929~~ ~~20160108~~ 20160113

Code below are simplized.

Finding out mistakes is not easy, because there are actually several hundred lines in code.

1. Minus value

wvariable value

: calc value W@ d1000 - value W! value W@ . ;

Word'calc' correctly operate if value's data is more than d1000.

But if it want to correctly operate any value, value should define 'variable'.

2. Array

fl

variable data1 d150 allot

When copy/paste this, it occur error on PropForth.

Prop0 Cog6 ok

– Executing copy/paste –

fl   ← Echo from PropForth

Prop0 Cog6 ok

CON:Prop0 Cog5 RESET – last status: 246 UNKNOWN ERROR

Because word'fl' use input buffer. (refering word'(fl) inside StartKernel-1.f)

In case of DevKernel, error don't happen at d137.

To avoid this error, memory should be allocated to data1 before loading forth codes.

This is performed by manual.

Procedure; variable data1 here W@ d146 + here W!

[here] is top address for free space.

(1) Allocating 4byte to data1 (because it is variable)

(2) Loading [here] on stack

(3) Add d146(150-4=146) to [here]address

(4) Save value to here

3. Miss-alignment

Copy/paste statements after reboot on DevKernel

wvariable t

wvariable Font -2 allot

h10 c, h20 c, h30 c, h40 c, h50 c, h60 c, h70 c, h80 c,

: test1 Font C@ . ;

: test2 Font W@ . ;

: test3 Font L@ . ;

'test1' and 'test2' have no problem. Result is h40302010.
Result of test3 might be h2010004F.
Font 4 dump

44CE 0004:
44CE: 10 20 30 40 50 60 70 80 C& 44 85 74 65 73 74 31   . O@P'p..D.test1
 [Font L@] get address[44CC].
Alignment of 'wvariable' and 'variable' is different.
If needing 'Font L@', code be should 'variable Font -4 allot'.

4. Changing dictionary by mistake

variable array 6 allot
: test1 d10 0 do i . loop ;
: test2 array d14 0 do dup 0 swap C! 1+ loop drop ;

After executed 'test2', any word can't execute.
Because lfa of 'test1' is deleted by 'test2'.

5. Prompt"Cog6 ok" don't be displayed when copy/paste statements.

When copy/paste whole forth statements from editor to TeraTerm, sometimes prompt
still display "Cog5 ok".
Prompt"Cog6 ok" return back by hitting return-key.
This is bug in "fl".
To avoid, last line be must empty line.

fl
…
…
…   ← Last line don't include any(character space,tab,)