

# Frequently Encountered Problem

~~20130929~~ 20160108

Code below are simplified.

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 is 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

(2) Loading here onn stack

(3) Add d146 to address(d150-4=d146)

(4) Set [here] address on stack

## 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, )