

RAMDISK

2016/08/30

PropForth use word'fl' to load forth code.
Word'fl' use free area because of loading /compiling forth code.
Free area of Development-kernel is 15kbyte.
So big forth code cannot load.

Size of sample1.f is 33kbyte. This use word'fl'.
Loading this file below;

```
9224 characters overflowed
Prop0 Cog6 ok
```

```
CON:Prop0 Cog5 RESET - last status: 0 ok
```

SRAM on RAMDISK is 512k x 16bit.
Low8bit of SRAM is 0 – h3FFFF.
High8bit of SRAM is 4FFFF – h7FFFF.
Setting 19bit-address by using presetable-counter and shift-register.

After loading RAMDISK_0.3.f, execute word'initRAM'.

```
Prop0 Cog6 ok
initRAM
Prop0 Cog6 ok
```

Size of sample2.f also is 33kbyte. This use word'fIRAM'.
sample2.f(33kbyte) is loadable because word'fIRAM' use RAMDISK(512kbyte).
sample2 is same as sample1 except for word'fIRAM'.

Loading is successful.

Word'fIRAM' change connection between cog7 and cog6.
output for cog7 → input for cog6
 output for cog6 → input for cog5
input for cog7 ←----- output for cog5

Characters flow out from cog7 to cog6.
Cog6 pass through cog5 except for comment[\\,{}] and space and tab.
Cog5 compile them and register to dectionary.
Cog5 pass through cog7 received characters from cog6.

Contents in RAMDISK below;

```
Prop0 Cog6 ok
0 500 dumpDISK
00000 01F4:
00000: 0D 0D 0D 0D 0D 3A 20 65 72 72 5F 6D 73 67 20 2E      ;....: err_msg . <-- first word'err' in sample2
00010: 22 20 49 32 43 20 65 72 72 6F 72 22 20 3B 0D 3A      " I2C error" ;.:
00020: 20 65 72 72 3F 20 69 66 20 65 72 72 5F 6D 73 67      err? if err_msg
00030: 20 63 72 20 74 68 65 6E 20 3B 0D 0D 6C 6F 63 6B      cr then ;..lock
00040: 64 69 63 74 20 63 72 65 61 74 65 20 5F 65 65 73      dict create _ees
00050: 74 61 72 74 20 66 6F 72 74 68 65 6E 74 72 79 0D      tart forthentry.
00060: 24 43 5F 61 5F 6C 78 61 73 6D 20 77 2C 20 68 31      $C_a lxasm w, h1
00070: 32 32 20 20 68 31 31 33 20 20 31 2D 20 74 75 63      22 h113 1- tuc
00080: 6B 20 2D 20 68 39 20 6C 73 68 69 66 74 20 6F 72      k - h9 lshift or
00090: 20 68 65 72 65 20 57 40 20 61 6C 69 67 6E 6C 20      here W@ alignl
000A0: 68 31 30 20 6C 73 68 69 66 74 20 6F 72 20 6C 2C      h10 lshift or l
000B0: 0D 7A 31 5B 69 78 6E 57 20 6C 2C 20 7A 31 5B 69      .z1[ixnW l, z1[i
000C0: 78 6E 58 20 6C 2C 20 7A 32 57 79 50 5B 55 20 6C      xnX l, z2WyP[U l
000D0: 2C 20 7A 32 30 69 50 61 6B 20 6C 2C 20 7A 33 72      , z20iPak l, z3r
000E0: 79 50 57 30 20 6C 2C 20 7A 31 62 69 78 6E 57 20      yPW0 l, z1bixnW
000F0: 6C 2C 20 7A 32 57 79 50 5B 56 20 6C 2C 20 7A 32      l, z2WyP[V l, z2
00100: 30 69 50 61 6B 20 6C 2C 0D 7A 33 72 79 50 57 30      0iPak l,.z3ryPW0
00110: 20 6C 2C 20 7A 31 62 69 78 6E 58 20 6C 2C 20 7A      l, z1bixnX l, z
00120: 31 53 56 30 31 58 20 6C 2C 20 7A 6C 30 20 6C 2C      1SV01X l, zL0 l,
00130: 20 7A 43 57 20 6C 2C 20 7A 57 30 30 30 30 20 6C      zCW l, zW0000 l
00140: 2C 20 7A 47 30 30 30 30 20 6C 2C 0D 66 72 65 65      , zG0000 l,.free
00150: 64 69 63 74 0D 0D 3A 20 53 72 20 5F 65 65 73 74      dict..: Sr _eest
00160: 61 72 74 20 3B 0D 0D 3A 20 5F 65 65 73 74 6F 70      art ;... _eestop
00170: 0D 5F 73 63 6C 69 20 20 20 20 5C 20 52 65 6C      ._scli _¥ Rel
00180: 65 61 73 65 20 73 63 6C 20 0D 5F 73 64 61 69 20      ease scl ._sdai
00190: 20 20 20 20 5C 20 52 65 6C 65 61 73 65 20 73 64      _¥ Release sd
001A0: 61 0D 3B 0D 0D 3A 20 62 75 73 5F 63 6C 72 20 64      a.;...: bus_clr d
001B0: 31 30 20 30 20 64 6F 20 5F 73 63 6C 6C 20 5F 73      10 0 do _scli _s
001C0: 63 6C 6F 20 5F 73 63 6C 69 20 6C 6F 6F 70 20 3B      clo _scli loop ;
001D0: 0D 0D 0D 6C 6F 63 6B 64 69 63 74 20 63 72 65 61      ...lockdict crea
001E0: 74 65 20 5F 65 65 77 72 69 74 65 20 66 6F 72 74      te _eewrite fort
001F0: 68 65 6E 74 72 79 0D 24 43 5F 61 5F 6C 78 61 73      hentry.$C_a_lxas
```

Prop0 Cog6 ok

fIRAM_in L@ . fIRAM_out L@ .
21069 21069 Prop0 Cog6 ok

```
Prop0 Cog6 ok
20800 500 dumpDISK
05140 01F4:
05140: 70 0D 64 72 6F 70 0D 63 6C 72 5F 76 72 61 6D 20      p.drop.clr_vram
05150: 30 20 76 69 64 58 20 57 21 20 0D 63 22 20 46 6F      0 vidX W! .c" Fo
05160: 72 74 68 22 20 6C 63 64 5F 73 74 72 69 6E 67 0D      rth" lcd_string.
05170: 64 69 73 70 5F 4F 4C 45 44 5F 4C 43 44 0D 64 69      disp_OLED_LCD.di
05180: 73 70 5F 72 65 76 65 72 73 65 0D 64 32 30 30 30      sp_reverse.d2000
05190: 20 64 65 6C 6D 73 0D 64 69 73 70 5F 4F 4C 45 44      delms.disp_OLED
051A0: 5F 4C 43 44 0D 64 32 30 30 20 64 65 6C 6D 73      _LCD.d2000 delms
051B0: 0D 64 69 73 70 5F 6E 6F 72 6D 61 6C 0D 64 32 30      .disp_normal.d20
051C0: 30 30 20 64 65 6C 6D 73 0D 64 69 73 70 5F 4F 4C      00 delms.disp_OL
051D0: 45 44 5F 4C 43 44 0D 3B 0D 0D 3A 20 64 65 6D 6F      ED_LCD.;...: demo <--- last word'demo4' in
sample2.f
051E0: 34 0D 64 65 6D 6F 32 0D 73 63 72 6F 6C 6C 5F 48      4.demo2.scroll_H
051F0: 20 0D 64 65 6D 6F 33 0D 73 63 72 6F 6C 6C 5F 56      .demo3.scroll_V
05200: 48 20 0D 30 20 42 6C 69 6E 6B 0D 64 35 30 30 30      H.0 Blink.d5000
05210: 20 64 65 6C 6D 73 0D 64 69 73 5F 46 61 64 65 2F      delms.dis_Fade/
05220: 42 6C 69 6E 6B 0D 31 20 46 61 64 65 4F 75 74 0D      Blink.1 FadeOut.
05230: 64 35 30 30 30 20 64 65 6C 6D 73 0D 64 69 73 5F      d5000 delms.dis_
05240: 46 61 64 65 2F 42 6C 69 6E 6B 0D 3B 0D 1D 00 84      Fade/Blink.;...
05250: F6 68 B6 E3 FA 9D 41 E8 A5 42 C5 C8 A5 16 D6 4C      .h...A..B....L
05260: 00 30 76 E9 B8 34 5C BC 92 83 05 C0 E9 B6 F8 59      .0v..4¥.....Y
05270: C8 28 B1 04 21 03 9F B7 71 28 F3 31 CA C3 A9 96      .(.!...q(.1....
05280: D2 C0 4B 12 68 48 7C 01 00 00 A1 80 BC 88 04 02      ..K.hH|.....
05290: BB E2 D0 78 AA 49 74 0A 02 1D 08 D9 0B 38 5D AA      ..x.It.....8].
052A0: C5 14 04 2D F3 93 41 24 8D BE F0 60 6A B0 F4 F4      ...-..A$....`j...
052B0: 08 22 11 E4 48 06 81 E6 94 03 74 47 45 60 94 C4      ."..H.....tGE...
052C0: 44 F4 3E 2D AC 0B 91 31 AA 5A 84 06 05 58 40 19      D.>-...1.Z...X0.
052D0: 18 68 B4 E8 C8 82 84 AD CB 95 0C 0B 28 13 21 74      .h..K.....(!t
052E0: 6E 08 47 07 78 3D A8 F0 92 70 95 99 8B 1B 35 AE      n.G.x=...p....5.
052F0: EA 55 5D 20 0D 02 13 92 AC 64 C0 4C 91 40 F2 A4      ,U] .....d.L.@..
05300: 27 18 83 21 81 38 3D 87 04 CB 24 07 D6 8F 56 7C      ,..!..8=...$....V|
05310: 60 77 89 87 24 13 82 60 88 C9 05 3D 89 20 8D 9B      `w..$.`....=...
05320: 48 92 FE 81 48 B2 4D B9 47 2C D1 70 47 43 6C 45      H...H..M.G,.pGCLE
05330: 61 B0 C6 98 A2 12 53 D1 B8 30 84 F6 0E 69 1A 13      a.....S..0...i..
```

Prop0 Cog6 ok

Writing 0 – hFF whole RAMDISK(512kbyte)

Prop0 Cog6 ok
2048 test

.....Prop0 Cog6 ok

0 300 dumpDISK

00000 012C:

00000:	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	.....
00010:	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	.....
00020:	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	!"#\$%&'()*+,-./
00030:	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F	0123456789:;<=>?
00040:	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F	@ABCDEFGHIJKLMNO
00050:	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F	PQRSTUVWXYZ[^\`_
00060:	60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F	`abcdefghijklmnopqrstuvwxyz
00070:	70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F	pqrstuvwxyz{|}~.
00080:	80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F	.....
00090:	90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F	.....
000A0:	A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF	.....
000B0:	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF	.....
000C0:	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF	.....
000D0:	D0	D1	D2	D3	D4	D5	D6	D7	D8	DA	DB	DC	DD	DE	DF	.....
000E0:	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF	.....
000F0:	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF	.....
00100:	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	.....
00110:	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	.....
00120:	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	!"#\$%&'()*+,-./

Prop0 Cog6 ok

262000 300 dumpDISK

3FF70 012C:

3FF70:	70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F	pqrstuvwxyz{|}~.
3FF80:	80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F	.....
3FF90:	90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F	.....
3FFA0:	A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF	.....
3FFB0:	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF	.....
3FFC0:	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF	.....
3FFD0:	D0	D1	D2	D3	D4	D5	D6	D7	D8	DA	DB	DC	DD	DE	DF	.....
3FFE0:	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF	.....
3FFF0:	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF	.....
40000:	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	.....
40010:	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	.....
40020:	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	!"#\$%&'()*+,-./
40030:	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F	0123456789:;<=>?
40040:	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F	@ABCDEFGHIJKLMNO
40050:	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F	PQRSTUVWXYZ[^\`_
40060:	60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F	`abcdefghijklmnopqrstuvwxyz
40070:	70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F	pqrstuvwxyz{|}~.
40080:	80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F	.....
40090:	90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F	.....

Prop0 Cog6 ok

524000 300 dumpDISK

7FEE0 012C:

7FEE0:	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF	.....
7FEF0:	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF	.....
7FF00:	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	.....
7FF10:	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	.....
7FF20:	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	!"#\$%&'()*+,-./
7FF30:	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F	0123456789:;<=>?
7FF40:	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F	@ABCDEFGHIJKLMNO

```
7FF50: 50 51 52 53 54 55 56 57 58 59 5A 5B 5C 5D 5E 5F  PQRSTUVWXYZ[¥]^_
7FF60: 60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F  `abcdefghijklmnopqrstuvwxyz
7FF70: 70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F  pqrstuvwxyz{|}~.
7FF80: 80 81 82 83 84 85 86 87 88 89 8A 8B 8C 8D 8E 8F  .....
7FF90: 90 91 92 93 94 95 96 97 98 99 9A 9B 9C 9D 9E 9F  .....
7FFA0: A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC AD AE AF  .....
7FFB0: B0 B1 B2 B3 B4 B5 B6 B7 B8 B9 BA BB BC BD BE BF  .....
7FFC0: C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 CA CB CC CD CE CF  .....
7FFD0: D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 DA DB DC DD DE DF  .....
7FFE0: E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF  .....
7FFF0: F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF  .....
80000: 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F  ..... <--- data in address[0 to hF]
```

Prop0 Cog6 ok