

OLED-LCD(Controller:SSD1306)

20140413

Reference;
i2c_utility_0.2.1.f
OLED_disp_0.3.f
Font_converter_0.1.f

Only connecting sda, scl and power, SSD1306 don't reply.

```
Prop0 Cog6 ok
i2c_detect
  0 1 2 3 4 5 6 7 8 9 A B C D E F
00: - - - - -
10: - - - - -
20: - - - - -
30: - - - - -
40: - - - - -
50: 50 - - - - -
60: - - - - -
70: - - - - -
i2c_device:1

Prop0 Cog6 ok
```

When resetting SSD1306, it reply.

```
Prop0 Cog6 ok
ssd1306_reset i2c_detect
  0 1 2 3 4 5 6 7 8 9 A B C D E F
00: - - - - -
10: - - - - -
20: - - - - -
30: - - - - - 3C - - - - <-- SSD1306'saddress is h3C.
40: - - - - -
50: 50 - - - - -
60: - - - - -
70: - - - - -
i2c_device:2

Prop0 Cog6 ok
```

Prop0 Cog6 ok
page_test <-- Displaying 8X8 on PAGE mode



Prop0 Cog6 ok
hrz_test <-- Displaying 8X8 on Horizontal mode



Prop0 Cog6 ok
 vrt_test <-- Displaying 16X32(Propeller ROM Font) by Vertical mode



```
Prop0 Cog6 ok  
lcd_off      <-- Only Display-Off
```

```
Prop0 Cog6 ok  
lcd_on       <-- Display-On
```

```
Prop0 Cog6 ok  
power_off    <-- LCD-Power Off
```

OLED_disp_0.2.f is only sending font-data to SSD1306's GDDRAM.

When using as display, it should define v-ram, WORD displaying 1-character, WORD displaying string and WORD controlling position inside v-ram.

GDDRAM inside SSD1306 is row-type.

So, I convert 8X8-font(column-type) to 8X8-font(row-type) by Font_converter_0.1.f.