S5D9 Lab LED pin write with timer interrupt

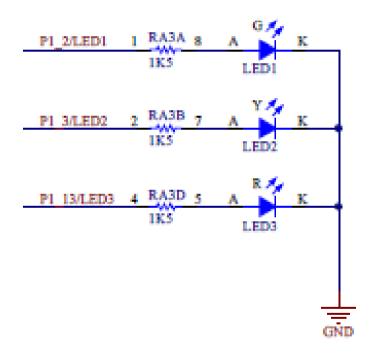
By

Michael Li
(2/2/2018)

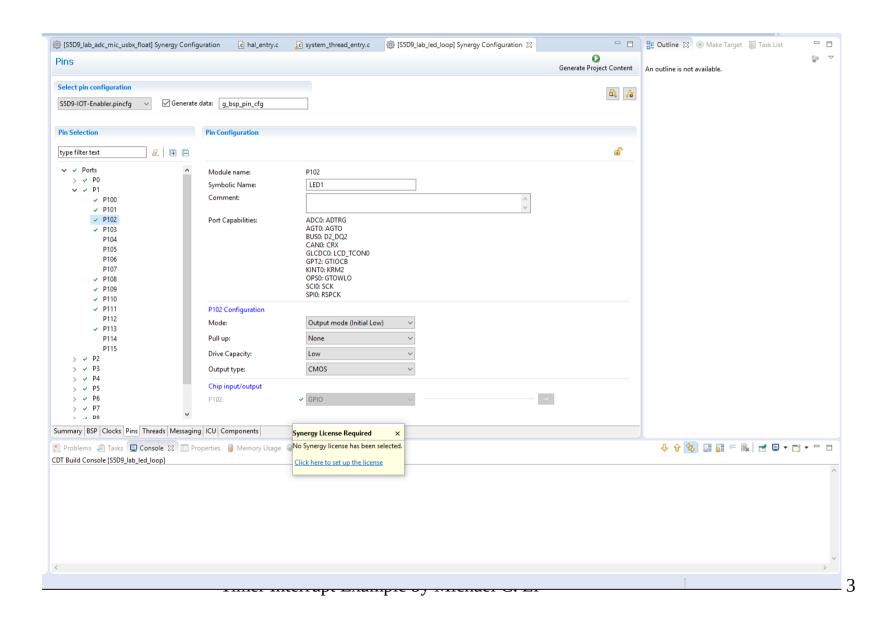
https://www.miketechuniverse.com

E2 Studio 5.4.0.023 SSP 1.3.0

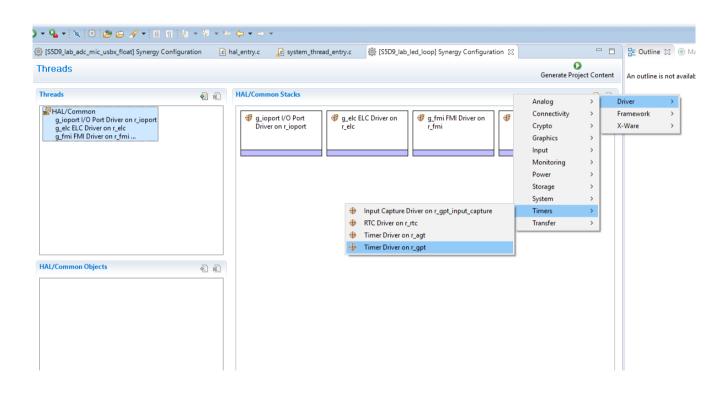
S7G2 Lab LED register with loop delay



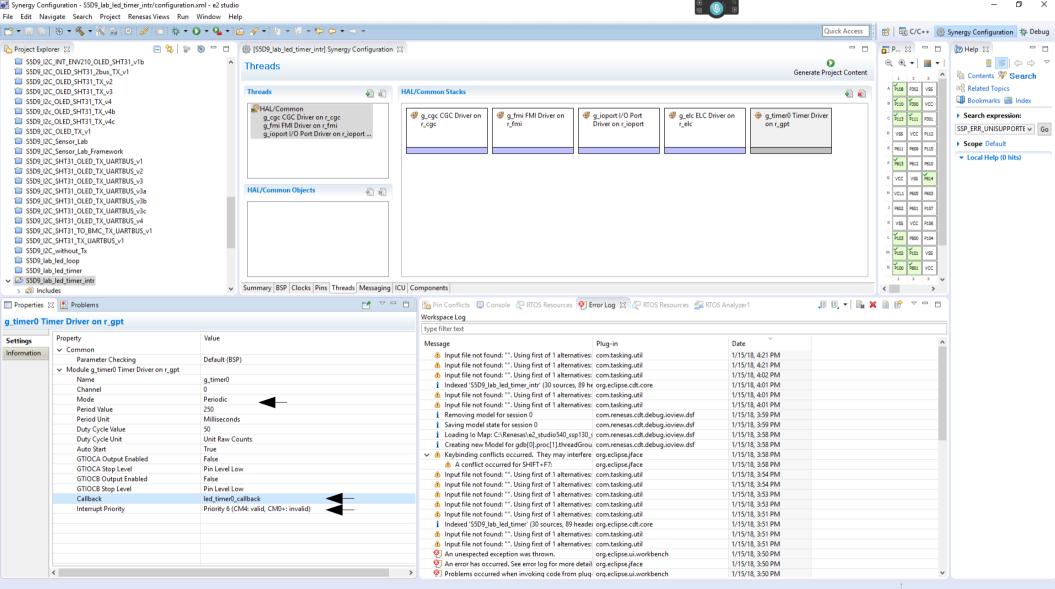
Pin enabled (GPIO output)



Get Timer Driver



Add Callback and Interrupt Priority



Main Code

```
Michael Li
                    Company: Consultant
                    Web page: https://www.miketechuniverse.com/
                    Date: 1/9/18
                    SSP version: 1.30
                    E2 Studio version: 5.4.0.023
 11
                Description: Toggle LED1/2/3 (P1_2/3/13). Set timer0 as a periodical timer.
 13
                                 Compare the actual timerO value (depending on clock frequency).
 14
 15
                                 2Hz or 0.500sec period (Toggle rate)
 17
 18
 19
                /* HAL-only entry function */
                #include "hal data.h"
 21
                bool OnOff = true;
 23
                bool OffOn = false;
 24
 25
              ovoid hal_entry(void)
 26
27
                    /* TODO: add your own code here */
 28
                    led_timer0.p_api->open(led_timer0.p_ctrl,led_timer0.p_cfg);
 29
              ovoid led timerO callback(timer callback args t * p args)
                    g ioport.p api->pinWrite(IOPORT PORT 01 PIN 02, OnOff); // GREEN LED
                    g ioport.p api->pinWrite(IOPORT PORT 01 PIN 03, OffOn); // Yellow LED
                    g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN_13, OnOff); // Red LED
                    OnOff = !OnOff;
                    OffOn = !OffOn:
🧖 Problems 🧖 Tasks 📮 Console 💢 🔲 Properties 🔋 Memory Usage 🌑 Smart Browsei
CDT Build Console [S5D9_lab_led_timer_intr]
'Invoking: Cross ARM GNU Frint Size'
arm-none-eabi-size --format=berkeley "S5D9_lab_led_timer_intr.elf"
  text data bss dec hex filename
 18992 124 8408 27524 6b84 S5D9_lab_led_timer_intr.elf
'Finished building: S5D9_lab_led_timer_intr.srec'
'Finished building: S5D9_lab_led_timer_intr.siz'
11:06:53 Build Finished. 0 errors, 1 warnings. (took 8s.839ms)
                                                                                                                       Smart Insert
```