



12+

016

Switching LED  
by GPIOinterrupt

PSoCGPIOINT.asm

```
PSOC_GPIO_ISR:
    ljmp _gpio_int_func
    reti
```

<input type="checkbox"/>	P0[7]	Port_0_7, StdCP
	Name	Port_0_7
	Port	P0[7]
	Select	StdCPU
	Drive	Pull Up
	Interrupt	FallingEdge
<input type="checkbox"/>	P1[0]	Port_1_0, StdCP
<input type="checkbox"/>	P1[1]	Port_1_1, StdCP
<input type="checkbox"/>	P1[2]	Port_1_2, StdCP
<input type="checkbox"/>	P1[3]	Port_1_3, StdCP
	Name	Port_1_3
	Port	P1[3]
	Select	StdCPU
	Drive	Strong
	Interrupt	DisableInt

main.c

```
#pragma interrupt_handler gpio_int_func
void gpio_int_func(void)
{
    while (~PRT0DR & 0x80)           // if Port0 bit7 ON?
        PRT1DR = 0x08;             // Port1[3] ON
    PRT1DR = 0x00;                 // Port1[3] OFF
}

void main()
{
    PRT0DR = 0x80;                 // Port0 bit7 Pull-up
    INT_MSK0 |= INT_MSK0_GPIO);   // enable GPIO interrupt
    M8C_EnableGInt;               // enable global interrupt
    for (;;)
}
```

