

Lassonde School of Engineering

EECS 2032

LAB 8

Lab Objectives

To get familiar with the interrupt and ISR on the board

LAB

Write an interrupt based program in order to toggle the LEDs on the board.

Use one of the push buttons to generate the interrupt, and the other to control the action.

If the other push button is pressed toggle the green LED.

if not, do nothing

In other words, we want to work with two push buttons. One push button to generate an interrupt, while the other button should be programmed in the interrupt handler to detect press and then we toggle green LED. If other button is not pressed then we do no action in the handler.

Hint:

The IRQ is on PTC3 (Sw3) and in the ISR we check PTA4 (Sw1).

If the latter is kept down/pressed, while someone presses and releases Sw3, the green LED toggles.

If PTA4 is not kept pressed, while Sw3 is pressed and released, nothing happens.