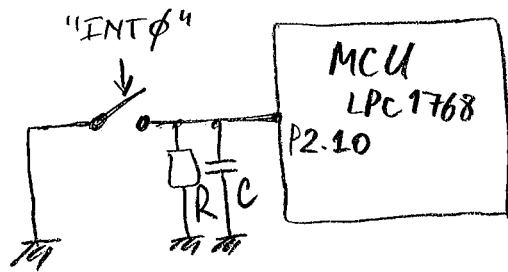


On the external interrupt EINT0

Using external interrupt EINT0 with the push-button "INT0" on MCB 1700 board.



(see schematic diagram of MCB 1700, lab #2 files)

Main steps in configuring / programming EINT0

- Pin function selection!
- 1) power-up
 - 2) clock
 - 3) $LPC-SC \rightarrow PINSEL4 |= (1 \ll 20);$
 $LPC-SC \rightarrow PINSEL4 \&= \sim(1 \ll 21);$
 - set bits "21:20" = "01"
 - See page 110, Table 83 in user manual!
 - 4) $NVIC-EnableIRQ(EINT0-IRQn);$
 - Enable source of interrupts EINT0
 - (see manual page ch. 6)
 - (see Appendix of lab #3)

```
void main() {
    // one time initialization;
```

```
    while (1) {
```

```
    }
```

```
}
```

ISR or handler:

```
void EINT0-IRQHandler(void) {
    // (1) clear interrupt
    LPC-SC->EXTINT = 0x00000001;

    // (2) do some thing
    draw_initially -> pinMode(X1, Y2);
    // or toggle on LED!
}
```

See manual page 24-25!