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#include "Proj_3G_header_file.h"

char digit=1, op, mode;

int main (void){

    op=0;
    mode = 'u'; //mode: signed or unsigned
    setup_HW;
    I2C_Tx_display_char(digit,mode);
    setup_and_enable_PCI;
    sei();

    while(1){
    switch(op){
        case 0: break; //Static display
        case 1: I2C_Tx_display_char(++digit,mode);break; //Increment "digit" before calling "I2C_Tx....."
        case 2: I2C_Tx_display_char(--digit, mode);break; //Decrement "digit" before calling "I2C_Tx....."

        Timer_T0_10mS_delay_x_m(15);}}

    /*****
ISR(PCINT2_vect) { //sw1 and sw2 interrupt
    if(switch_3_down)return; //Ignore if sw3 is still down
    if((switch_2_up) && (switch_1_up)){op = 0; return;} //Both switches up

    if(switch_2_down) {op = 1; return;} //Digits increment
    if(switch_1_down) {op = 2; return;}} //Digits decrement

    *****/

    /*****
ISR(PCINT0_vect){ //sw3 interrupt service routine
    if(switch_3_up)return; //Ignore sw3 key release
    if((switch_2_down) || (switch_1_down))return; //Ignore if sw1 or 2 are still down
    if (mode == 's') //toggle display from signed to unsigned
    {mode = 'u'; I2C_Tx_display_char(digit,mode);return;}
    if (mode == 'u') //and visa-versa
    {mode = 's'; I2C_Tx_display_char(digit,mode);return;}}
    *****/

```