

```
1  #include <stdint.h>
2
3  //Commands for Hitachi 44780 compatible LCD controllers
4  #define LCD_8B2L 0x38 // ; Enable 8 bit data, 2 display lines
5  #define LCD_DCB 0x0F // ; Enable Display, Cursor, Blink
6  #define LCD_MCR 0x06 // ; Set Move Cursor Right
7  #define LCD_CLR 0x01 // ; Home and clear LCD
8  #define LCD_LN1 0x80 // ;Set DDRAM to start of line 1
9  #define LCD_LN2 0xC0 // ; Set DDRAM to start of line 2
10
11 // Control signal manipulation for LCDs on 352/384/387 board
12 // PB0:RS PB1:ENA PB5:R/W*
13 #define LCD_CM_ENA 0x00210002 //
14 #define LCD_CM_DIS 0x00230000 //
15 #define LCD_DM_ENA 0x00200003 //
16 #define LCD_DM_DIS 0x00220001 //
17
18
19 void delay(uint32_t);
20 void CMD2LCD(uint8_t);
21 void DAT2LCD(uint8_t);
22 //uint16_t dipswitchRead();
23 void LCD_IO_INIT();
24 void LCD_INIT();
25 void StartLCD();
26 void LeftSensorTriggered();
27 void RightSensorTriggered();
28 void BothSensorTriggered();
29 void FlameSensorTrig();
30
```