#ifndef HD44780\_SETTINGS\_H  
  
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 #define F\_CPU 16000000 // Set Clock Frequency  
  
 #define USE\_ADELAY\_LIBRARY 0 // Set to 1 to use my ADELAY library, 0 to use internal delay functions  
 #define LCD\_BITS 4 // 4 for 4 Bit I/O Mode, 8 for 8 Bit I/O Mode  
 #define RW\_LINE\_IMPLEMENTED 0 // 0 for no RW line (RW on LCD tied to ground), 1 for RW line present  
 #define WAIT\_MODE 0 // 0=Use Delay Method (Faster if running <10Mhz)  
 // 1=Use Check Busy Flag (Faster if running >10Mhz) \*\*\*Requires RW Line\*\*\*  
 #define DELAY\_RESET 15 // in mS  
  
 #if (LCD\_BITS==8) // If using 8 bit mode, you must configure DB0-DB7  
 #define LCD\_DB0\_PORT PORTC  
 #define LCD\_DB0\_PIN 0  
 #define LCD\_DB1\_PORT PORTC  
 #define LCD\_DB1\_PIN 1  
 #define LCD\_DB2\_PORT PORTC  
 #define LCD\_DB2\_PIN 2  
 #define LCD\_DB3\_PORT PORTC  
 #define LCD\_DB3\_PIN 3  
 #endif  
  
 #define LCD\_DB4\_PORT PORTC // If using 4 bit omde, yo umust configure DB4-DB7  
 #define LCD\_DB4\_PIN 0  
 #define LCD\_DB5\_PORT PORTC  
 #define LCD\_DB5\_PIN 1  
 #define LCD\_DB6\_PORT PORTC  
 #define LCD\_DB6\_PIN 2  
 #define LCD\_DB7\_PORT PORTC  
 #define LCD\_DB7\_PIN 3  
  
 #define LCD\_RS\_PORT PORTC // Port for RS line  
 #define LCD\_RS\_PIN 4 // Pin for RS line  
  
 #define LCD\_RW\_PORT PORTC // Port for RW line (ONLY used if RW\_LINE\_IMPLEMENTED=1)  
 #define LCD\_RW\_PIN 6 // Pin for RW line (ONLY used if RW\_LINE\_IMPLEMENTED=1)  
  
 #define LCD\_DISPLAYS 1 // Up to 4 LCD displays can be used at one time  
 // All pins are shared between displays except for the E  
 // pin which each display will have its own  
  
 // Display 1 Settings - if you only have 1 display, YOU MUST SET THESE  
 #define LCD\_DISPLAY\_LINES 2 // Number of Lines, Only Used for Set I/O Mode Command  
 #define LCD\_E\_PORT PORTC // Port for E line  
 #define LCD\_E\_PIN 5 // Pin for E line  
  
 #if (LCD\_DISPLAYS>=2) // If you have 2 displays, set these and change LCD\_DISPLAYS=2  
 #define LCD\_DISPLAY2\_LINES 2 // Number of Lines, Only Used for Set I/O Mode Command  
 #define LCD\_E2\_PORT PORTC // Port for E line  
 #define LCD\_E2\_PIN 5 // Pin for E line  
 #endif  
  
 #if (LCD\_DISPLAYS>=3) // If you have 3 displays, set these and change LCD\_DISPLAYS=3  
 #define LCD\_DISPLAY3\_LINES 2 // Number of Lines, Only Used for Set I/O Mode Command  
 #define LCD\_E3\_PORT PORTC // Port for E line  
 #define LCD\_E3\_PIN 5 // Pin for E line  
 #endif  
  
 #if (LCD\_DISPLAYS>=4) // If you have 4 displays, set these and change LCD\_DISPLAYS=4  
 #define LCD\_DISPLAY4\_LINES 2 // Number of Lines, Only Used for Set I/O Mode Command  
 #define LCD\_E4\_PORT PORTC // Port for E line  
 #define LCD\_E4\_PIN 5 // Pin for E line  
 #endif  
  
#endif