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#ifndef LCD_DOG_C_DRIVER_H_
#define LCD_DOG_C_DRIVER_H_

#include <iom128.h>
#include <intrinsics.h>

// Bit Value
#define _BV(bit) (1 << (bit))

// PINs for LCD
#define SCK      1
#define MISO     3
#define MOSI     2
#define SS_bar   0
#define RS       4
#define BLC      5

#define LCD_PORT PORTB

char dsp_buff_1[16];
char dsp_buff_2[16];
char dsp_buff_3[16];

void delay_30uS();

void delay_40mS();

void init_spi_lcd();

int lcd_spi_transmit_CMD(char cmd);

int lcd_spi_transmit_DATA(char data);

void init_lcd_dog(void);

void update_lcd_dog(void);

#endif /* LCD_DOG_C_DRIVER_H_ */

```