#include"lpc214x.h"

#define LCD\_PORT 0x00FF0000

#define EN 1<<31

#define RS 1<<27

#define CS1 1<<26

#define CS2 1<<25

#define GRST 1<<30

#define RW 1<<24

#define LCD\_SHIFT 16

void delay(unsigned int time) //small delay

{

int i,j;

for(i=0;i<time;i++)

for(j=0;j<10;j++);

}

void ldelay(unsigned int time) //long delay

{

int i,j;

for(i=0;i<time;i++)

for(j=0;j<5000;j++);

}

void LCD\_strobe(void) //generate ENABLE pulse

{

IO1SET = EN;

delay(5);

IO1CLR = EN;

delay(5);

}

void GLCD\_data(unsigned char ch)

{

IO1CLR = LCD\_PORT;

IO1SET = ch<<LCD\_SHIFT;

IO1SET = RS;

LCD\_strobe();

}

void GLCD\_cmd(unsigned char ch)

{

IO1CLR = LCD\_PORT;

IO1SET = ch<<LCD\_SHIFT;

IO1CLR = RS;

LCD\_strobe();

}

void GLCD\_init()

{

int i;

PINSEL0 = 0; //set pins as GPIO

PINSEL1 = 0;

PINSEL2 = 0;

IODIR1 = LCD\_PORT | RS | EN | CS1 | CS2 | GRST | RW; //set pins as output

IOSET1 = GRST | CS1 | CS2;

IOCLR1 = RW | RS | EN;

for(i=0;i<10;i++)

GLCD\_cmd(0x3F); //Display ON

GLCD\_cmd(0x40); //Set Y address as 0 (range 0-63)

GLCD\_cmd(0xB8); //Set X address as 0 (page address) (range 0-7)

}

int main()

{

int i,j,l,m;

GLCD\_init();

for(i=1;i<=6;i++)

{

IO1SET = CS1; //select controller 1

IO1CLR = CS2;

GLCD\_cmd(0xB8 | i);

for(j=29;j<=42;j++)

{

GLCD\_cmd(0x40| j);

GLCD\_data(0x00); // To send the high values at those locations rows and columns of GLCD

}

}

for(l=3;l<=4;l++)

{

// IO1SET = CS1;

// IO1CLR = CS2;

GLCD\_cmd(0xB8 | l);

for(m=10;m<=60;m++)

{

GLCD\_cmd(0x40 | m);

GLCD\_data(0x00); // To send the high values at those locations rows and columns of GLCD

}

}

}