

Codes

#include <lpc214x.h>

#include <stdio.h>

void delay();

unsigned long int var1,var2;

int main (void)

{

unsigned int result,temp;

PINSEL1 = 0x00040000; //p0.25 pin is selected as as ad0.4

IODIR0 = 0xf0000c00;

while(1)

{

result=0x00;

AD0CR = 0x09200010; //control register for adc ad.04

while((temp = AD0GDR) == 0x80000000);

result = AD0GDR; //to get the adc values in result

AD0CR &= ~0x01000000; //stop adc

result = (result >> 6);

result = result & 0x000003FF;

/\*if(result >= 0x00 && result<0x0136){

IO0SET = 0x000F0000;

delay();

}

\*/

if(result>0x02ff && result<=0x0328){

if(var2!=0x0000000f)

{

IOCLR0 = 0xffffffff;

//var1= 0x08000000;

//var1<<=1;

IOSET0 = 0x30000800;

IOCLR0 = 0x00000400;

delay();

IOCLR0 = 0xffffffff;

var1<<=1;

IOSET0 = 0x60000800;

IOCLR0 = 0x00000400;

var2=0x0000000f;

delay();

IOCLR0 = 0xfffff4ff;

}

}

else if(result>0x0384 && result<=0x0399){

if(var2!=0x10000000)

{

IOCLR0 = 0xffffffff;

//var1= 0x20000800;

//var1<<=1;

IOSET0 = 0xc0000800;

IOCLR0 = 0x00000400;

delay();

IOCLR0 = 0xfffff7ff;

var1<<=1;

IOSET0 = 0x90000800;

IOCLR0 = 0x00000400;

var2=0x10000000;

delay();

IOCLR0 = 0xfffff4ff;

}

}

else{

IOSET0 = 0x00000800;

IOCLR0 = 0x00000400;

delay();

IOCLR0 = 0xfffff4ff;

}

}

}

void delay(){

unsigned int i;

for(i=0; i<1000000; i++);

}