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#include <16F818.h>

#device adc=8

#FUSES NOWDT           //No Watch Dog Timer

#FUSES HS              //High speed Osc (> 4mhz for PCM/PCH) (>10mhz for PCD)

#FUSES NOPUT          //No Power Up Timer

#FUSES MCLR            //Master Clear pin enabled

#FUSES NOBROWNOUT     //No brownout reset

#FUSES NOLVP          //No low voltage prgming, B3(PIC16) or B5(PIC18) used for I/O

#FUSES NOCPD          //No EE protection

#FUSES NOWRT          //Program memory not write protected

#FUSES NODEBUG        //No Debug mode for ICD

#FUSES NOPROTECT      //Code not protected from reading

#use delay(clock=20000000)

#use rs232(baud=9600,parity=N,xmit=PIN_A3,rcv=PIN_A2,bits=8)

#priority RTCC,EXT,CCP1

#include "table3.c"

int8 trisa;

#locate trisa = 0x085

#bit trisa0 = trisa.0

#bit trisa1 = trisa.1

//#bit trisa4 = trisa.4

int8 porta;

#locate porta =0x005

#bit a0 = porta.0

#bit a1 = porta.1

//#bit a4 = porta.4

void trig1(void);

```

```

int8 t2_int;

int16 td,td1;

int32 count_t1;

int1 flg_int0,FLG_CCP1;

int1 flg_low;

#int_EXT

void EXT_isr(void)

{

    trig1();

}

#int_CCP1

void CCP1_isr(void)

{

    FLG_CCP1=1;

}

void main()

{

    setup_timer_1(T1_EXTERNAL|T1_DIV_BY_2);

    setup_ccp1(CCP_CAPTURE_RE);

    enable_interrupts(INT_EXT);

    ext_int_edge( L_TO_H );

    enable_interrupts(INT_CCP1);

    enable_interrupts(GLOBAL);

    FLG_CCP1=0;flg_low=0;

    flg_int0=0;trisa1=trisa0=0;

    a1=0;a0=0;//td2=20000;

    t2_int=0;

```

```

t2_int=0;

while(true)

{

    if(flag_CCP1 )

    {

        flg_CCP1=0;

        count_t1= get_timer1();set_timer1(0);

        if(count_t1> 150 && count_t1<=24000)

        {

            td=count_t1/240;

            if(td>99)td=90;

        }

        if(count_t1>24000)

        {

            td=90;

        }

        td1=time1[td];

    }

}

void trig1(void)

{

    delay_us(td1);

    a1 = 1; a0 = 1;

    delay_us(700);

    a1=0;a0 = 0;

}

```