



Forum: [8-bit PIC](#)

Topic: [pic16f1507-Timer1設定問題](#)

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請教大家,目前使用Timer1作計時,按照計算應該1秒後,RC7 1秒後要亮起來,但我測試後30幾秒才會亮,是否哪裡有弄錯了

```
-----
#include <htc.h>

int AD_NTC_value1,ad_h_tmp,ad_l_tmp,ad_tmp;
char mode_3_tmp,t2_scale3,t2_scale2;
unsigned short TMR1cnt;
unsigned short min,sec;
unsigned char seg_value;

int adc(int channel);
void delay(int num);
void interrupt t1(void);

__CONFIG(FOSC_INTOSC & WDTE_OFF & PWRTE_OFF & MCLRE_ON & CP_OFF & BOREN_OFF &
CLKOUTEN_OFF);
__CONFIG(WRT_OFF & STVREN_OFF & BORV_LO & LPBOR_OFF & LVP_OFF);

void main()
{
//-----Oscillation-----
    OSCCON=01111011; // internal osc 16M
    OSCSTAT=00010001;
//-----I/O-----
    ANSELA=0b00000100; //RA2 analog
    TRISA=0b00000100; //RA2 input
    PORTA=0b00000000; //all low
    ANSELB=0b00000000; //all digital
    TRISB=0b00010000; //RB4 in
    PORTB=0b00000000; //all low
    ANSELC=0x00; //all digital
    TRISC=0x00; //all Output
    //PORTC=0x00; //all low
//-----Interrupt Timer1-----

    //TMR2IE=1;
    //T2CON=0b00000100;
```

```

T1CON=0b00000100;

TMR1IF=0;           //埃TMR1&#12356;韜???
//TMR1H =(65536-40000)/256;   //? ) 10ms&#12356;韜???
//TMR1L =(65536-40000)%256;
GIE=1;
PEIE=1;
TMR1IE=0;          //開啟Timer1
TMR1ON=0;          //set-up timer1
TMR1GE=0;

//-----A/D-----
ADCON1=0b01100000;
FVRCON=00000000;

//-----
delay(20);
RC3=1;   //red led
delay(20);
RC3=0;
delay(5);
RC4=1;   //green led
delay(20);
RC4=0;

TMR1cnt=0;
mode_3_tmp=0;
seg_value=0;
min=0;
sec=0;
// RC7=0;

while(1)
{
  AD_NTC_value1=adc(2);
  delay(5);
  if( AD_NTC_value1>=405)   //check battery in
  {
    delay(5);
    if( AD_NTC_value1>=405)
    {
      RC5=0;
      TMR1ON=1;           //set-up timer1
      TMR1IE=1;          //開啟Timer1
    }
  }
}

else
{
  RC5=1;

```

```

    RC6=0;
    RC7=0;
    TMR1ON=0;           //set-up timer1
    TMR1IE=0;          //開啟Timer1
}

/*

    RC5=1; //test (battery in)
    if(RB4)
    {
        delay(3);
        if(RB4)
        {
            RC4=1; //Green led
        }
    }
    else
    {
        RC4=0;
    }
}

    else
    {
        RC5=0; // (battery in)
        RC4=0;
    }
*/
}
}

```

```

//=====
int adc(int channel)
{

    ADCON0=0b10000001 | (channel<<2);

    GO=1;
    while(GO)
    {}
    GO=1;
    while(GO)
    {}
    ad_h_tmp=ADRESH<<2;
    ad_l_tmp=ADRESL>>6;
}

```

```

    ad_tmp=ad_h_tmp+ad_l_tmp;
    return(ad_tmp);
}
/*
void interrupt t2(void)
{

    TMR2IF=0;
    if (mode_3_tmp)
    {
        if (t2_scale3>=17)    //AC送電後,先等待2-3秒
        {
            t2_scale3=0;

            if(t2_scale2>=1) //wait time choise
            {
                t2_scale2=0;
                //tmp^=1;
                //RB4=tmp;

            }
            t2_scale2++;
        }
        t2_scale3++;
    }
}
*/

void interrupt t1(void)
{
    if(TMR1IF==1)
    {
        TMR1IF = 0;                // 埃TMR1&#12356;韃籐?TMR1IF
        TMR1H =(65536-40000)/256 ;    //? , 10ms&#12356;韃???
        TMR1L =(65536-40000)%256 ;
        TMR1cnt++;
        if (TMR1cnt>=100)    //100*10ms=1s
        {
            RC6=1;
            TMR1cnt = 0;
            sec++;
            if(sec>=1)    //1秒(1秒1次))
            {
                RC7=1;
                sec=0;
            }
        }
    }
}
}

```

```
}
```

```
void delay(int num)
{
    int aa,bb;
    aa=num;
    while(aa)
    {
        bb=num;
        while(bb)
            {bb--;}
        aa--;
    }
}
```