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[Forum: 8-bit PIC \(請註明使用元件編號\)](#)

Topic: PIC16F1455目前使用遇到的問題?

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各位先進好:

目前我使用的MPLAB X IDE v3.45+XC8 V1.41+PICkit3

完整程式碼如下:

```
// CONFIG1
#pragma config FOSC = INTOSC    // Oscillator Selection Bits (INTOSC oscillator: I/O
function on CLKIN pin)
#pragma config WDTE = OFF       // Watchdog Timer Enable (WDT disabled)
#pragma config PWRTE = OFF      // Power-up Timer Enable (PWRT disabled)
#pragma config MCLRE = ON       // MCLR Pin Function Select (MCLR/VPP pin function is
digital input)
#pragma config CP = OFF         // Flash Program Memory Code Protection (Program memory
code protection is disabled)
#pragma config BOREN = OFF      // Brown-out Reset Enable (Brown-out Reset disabled)
#pragma config CLKOUTEN = OFF   // Clock Out Enable (CLKOUT function is disabled. I/O or
oscillator function on the CLKOUT pin)
#pragma config IESO = OFF      // Internal/External Switchover Mode (Internal/External
Switchover Mode is disabled)
#pragma config FCMEN = OFF      // Fail-Safe Clock Monitor Enable (Fail-Safe Clock
Monitor is disabled)

// CONFIG2
#pragma config WRT = OFF        // Flash Memory Self-Write Protection (Write protection
off)
#pragma config CPUDIV = NOCLKDIV// CPU System Clock Selection Bit (NO CPU system divide)
#pragma config USBSLCLK = 24MHz // USB Low Speed Clock Selection bit (System clock
expects 24 MHz, FS/LS USB CLKENS divide-by is set to 4.)
#pragma config PLLMULT = 3x    // PLL Multiplier Selection Bit (3x Output Frequency
Selected)
#pragma config PLEN = DISABLED // PLL Enable Bit (3x or 4x PLL Disabled)
#pragma config STVREN = ON      // Stack Overflow/Underflow Reset Enable (Stack Overflow
or Underflow will cause a Reset)
#pragma config BORV = LO       // Brown-out Reset Voltage Selection (Brown-out Reset
Voltage (Vbor), low trip point selected.)
#pragma config LPBOR = OFF      // Low-Power Brown Out Reset (Low-Power BOR is disabled)
#pragma config LVP = OFF       // Low-Voltage Programming Enable (High-voltage on
MCLR/VPP must be used for programming)

// #pragma config statements should precede project file includes.
// Use project enums instead of #define for ON and OFF.

#include <xc.h>
```

```

// #define baud    0x17//0x17 for 48MHz -> 31250 baud
#define baud    0x13//0x13 for 48MHz -> 38400 baud

void InitializeSystem(void);
void UserInit(void);
void InitializeUSART(void);

#define InitGpio()          TRISA = 0b00001000;
                           TRISC = 0b00000000;

#define GLed                LATCbits.LATC3

union{
    struct{
        unsigned T0 :1; //
        unsigned T1 :1; //
        unsigned T2 :1; //
        unsigned T3 :1; //
        unsigned T4 :1; //
        unsigned T5 :1; //
        unsigned T6 :1; //
        unsigned T7 :1; //
    }oneBit;
    unsigned char allBits;
}Time_FLAG;
#define interrupt_1ms      Time_FLAG.oneBit.T0

unsigned char rc_temp;

#define UART_TRISTx      TRISCbits.TRISC4
#define UART_TRISRx      TRISCbits.TRISC5

void interrupt ISRCODE()
{
    if(TMROIF && TMR0IE)
    {
        TMRO = 0x00;
        TMROIF = 0 ;
        interrupt_1ms = 1;
    }

    if(RCIF && RCIE)
    {
        RCIF = 0;
        rc_temp = RCREG;           //硬體接收器的值存到接收暫存器
        TXREG = rc_temp;
    }
}

```

```

}

void main(void) {
    InitializeSystem();
    while(1)
    {
        if(rc_temp==0)
        {
            GLed = 1;
        }
        else
        {
            GLed = 0;
        }
    }
}

void InitializeSystem(void)
{
    ANSELA = 0;
    ANSELC = 0;

    //OSCCONbits.IRCF = 0x0f; //16MHz HFINTOSC with 3x PLL enabled (48MHz operation)
    //OSCCONbits.SCS = 0x00;
    //OSCCONbits.SPLEN = 1;
    //OSCCONbits.SPMLL = 1;
    OSCCON = 0b11111100;
    ACTCONbits.ACTSRC = 1; //Enable active clock tuning with USB
    ACTCONbits.ACTEN = 1;

    UserInit();
    OPTION_REG = 0;
    TMRO = 0x05;
    INTCON = 0b11100000;
}

void UserInit(void)
{
    InitGpio();
    InitializeUSART();
} //end UserInit

void InitializeUSART(void)
{
    unsigned char c;
    //unsigned char cnt=0;

    UART_TRISTx = 0;
    UART_TRISRx = 1;
}

```

```
TXSTA = 0x20; // TX enable BRGH=0
RCSTA = 0x90; // Single Character RX
SPBRG = baud;

BAUDCON = 0x00; // BRG16 = 0

PIE1bits.RCIE = 1;

c = RCREG; // read
}
```

遇到的問題是,DEBUG模式下進行實際量測IO輸出腳與UART傳輸都正確,但是燒錄後拔開PICKit3實際量測IO輸出一直維持HI(沒有如程式中切換),UART傳輸一樣正確.
請問這樣應該要怎麼查詢問題點可能在哪邊?