

Forum: [程式軟體與開發工具](#)

Topic: [MPLAB X build failed問題](#)

Subject: [Re: MPLAB X build failed問題](#)

作者: a16450

2019年01月13日 17:28:06

`__DELAY_MS`, `__DELAY_US`, `__DELAYWDT_US`, `__DELAYWDT_MS`

Synopsis

`__delay_ms(x)` // request a delay in milliseconds

`__delay_us(x)` // request a delay in microseconds

`__delaywdt_ms(x)` // request a delay in milliseconds

`__delaywdt_us(x)` // request a delay in microseconds

Description

It is often more convenient to request a delay in time-based terms, rather than in cycle counts. The macros `__delay_ms(x)` and `__delay_us(x)` are provided to meet this need. These macros convert the time-based request into instruction cycles that can be used with `_delay(n)`. In order to achieve this, these macros require the prior definition of preprocessor macro `_XTAL_FREQ`, which indicates the system frequency. This macro should equate to the oscillator frequency (in hertz) used by the system. Note that this macro only controls the behavior of these delays and does not affect the device execution speed.

On PIC18 devices only, you can use the alternate WDT-form of these functions, which uses the `CLRWDT` instruction as part of the delay code. See the `_delaywdt` function.

The macro argument must be a constant expression. An error will result if these macros are used without defining the oscillator frequency symbol, the delay period requested is too large, or the delay period is not a constant.

這是xc8 compiler內建的delay程式碼，試試看改寫到你的程式內  
設定好震盪器頻率(`_XTAL_FREQ`)

可以參考compiler的使用手冊 差不多在349頁

可以這樣用

```
#define _XTAL_FREQ 8000000
```

```
#define delays_time 5
```

```
while(1){
```

```
    //code
```

```
    __delay_ms(delays_time);
```

```
    //code
```

```
}
```

以上就是delay 5ms時間但是你震盪器一定要設定對