

[Forum: 16-bit PIC/dsPIC \(請註明使用的元件標號\)](#)

Topic: dspic ADC的問題

Subject: Re: dspic ADC的問題

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以下是我ADC的相關設定:

```
void ADCInit(void) // will set 12bit, 4.96us/sample or 202KS/sec
{
    AD1CON1 = 0;           // POR: 10-bit @4ch mode, ADC disabled, manual sample
    AD1CON2 = 0;           // POR: AVdd/Avss for Vref, do not scan, IRQ every sample
    AD1CON3 = 0;           // POR: Use system clock, TAD = 1Tcyc, SAMC = 0TAD
    AD1CON4 = 0;           // POR: no DMA

    AD1CHS123 = 0;        // not used in 12bit mode, as only 1 S/H available
    AD1CON1bits.FORM = 0; // integer data format (unsigned)
    AD1CON1bits.ASAM = 1; // continuous automatic sampling enabled

    AD1CON3bits.ADCS = 8; // 9 Tcy = 1TAD (so TAD = 9*25ns = 225ns = 4.44MHz)
    AD1CON3bits.SAMC = 8; // set auto sample time as 8TAD = 1.8us

    AD1CON1bits.AD12B = 1; // 12-bit conversion, 14TAD convert time

    AD1CON1bits.ADON = 1; // enable converter

    //
    // Turn on port RG8, which supplies +5V to pot
    //
    _TRISG8 = 0;
    _LATG8 = 1;

    //
    // there is a delay time required from ADC enable until application can begin
    // converting
    // 150us is sufficient. Also allows pot voltage to stabilize, charges up
    // anti-aliasing filter
    __delay_us(150);

    AD1CON1bits.SAMP = 1; // begin continuous sampling/conversion
}
```

麻煩了!