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Forum: 8-bit PIC

Topic: pic16f883 eeprom紀錄 Subject: Re: pic16f883 eeprom紀錄

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查了一下 Hi-Tech PICC 的 Internal EEPROM 的用法,如下: (HI-TECH C for PIC10/12/16 User's Guide)

For those PIC10/12/16 devices that support external programming of their EEPROM data area, the __EEPROM_DATA() macro can be used to place the initial EEPROM data values into the HEX file ready for programming. The macro is used as follows. #include <htc.h>
__EEPROM_DATA(0, 1, 2, 3, 4, 5, 6, 7);

The library functions eeprom_read() and eeprom_write(), can be called to read from, and write to, the EEPROM during program execution. For example, to write a byte-size value to an address in EEPROM and retrieve it using these functions would be:

```
#include <htc.h>
void eetest(void) {
  unsigned char value = 1;
  unsigned char address = 0;
  // write value to EEPROM address
  eeprom_write(address, value);
  // read from EEPROM at address
  value = eeprom_read(address);
}
```

Be aware that if a program contains multiple instances of either macro, any code space saving will be negated as the full content of the macro is now duplicated in code space. In the case of EEPROM_READ(), there is another very important detail to note. Unlike eeprom_read(), this macro does not wait for any concurrent EEPROM writes to complete before proceeding to select and read EEPROM. Had the previous example used the EEPROM_READ() macro in place of eeprom_read() the operation would have failed. If it cannot be guaranteed that all writes to EEPROM have completed at the time of calling EEPROM_READ(), the appropriate flag should be polled prior to executing EEPROM_READ().

```
For example:
#include <htc.h>
void eetest(void){
  unsigned char value = 1;
  unsigned char address = 0;
// Initiate writing value to address
```

```
EEPROM_WRITE(address,value);
// wait for end-of-write before EEPROM_READ
while(WR)
continue; // read from EEPROM at address
value = EEPROM_READ(address);
}
```

附加檔案:

擷取.JPG(120.31 KB)



EEPROM 初始燒錄值設定

- 在 XC8 底下, PIC16F 及 PIC18F 的設 定語法是一樣的
 - ◆ 使用 EEPROM DATA()的巨集
 - ◆ 擺放位址從 EEPROM 0x00 的位址開始



在 Window 下 → PC Memory Views → EE Data Memory 視窗

