RealView MDK安裝與使用方法介紹

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Declare	
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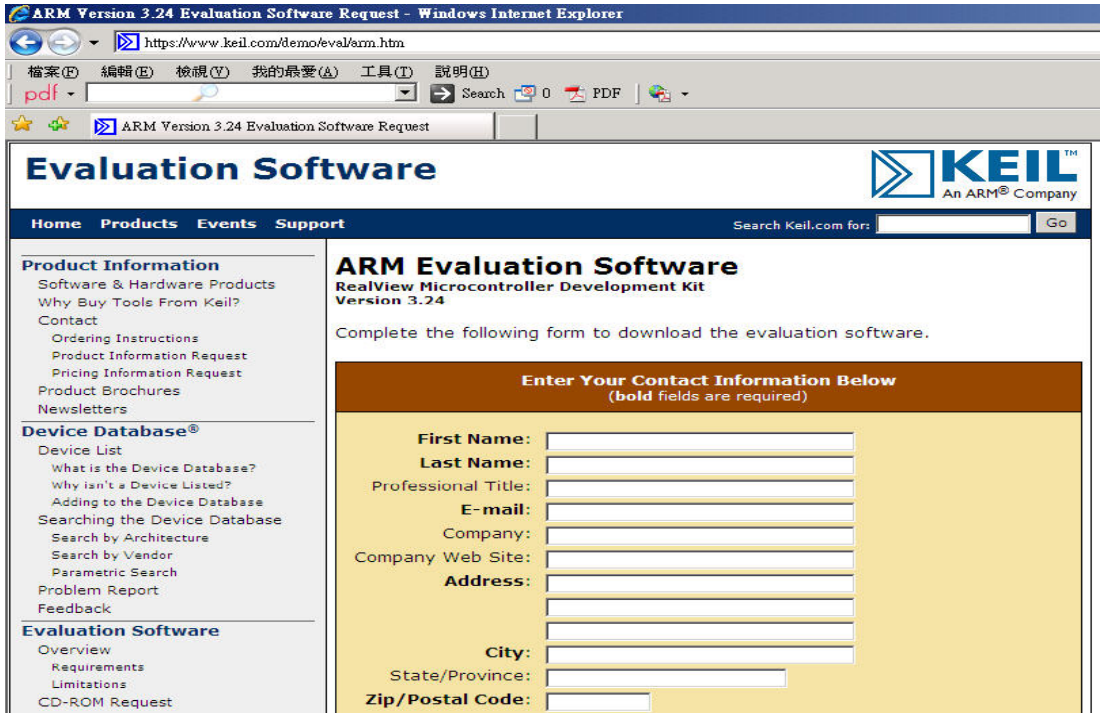
Document Title	RealView MDK安裝與使用方法介紹
Exercise Time	-------
Platform	RealView MDK
Peripheral	GPIO
Author	WU-YANG Technology Co., Ltd.

Outline

- MDK下載與安裝
- Release Note瀏覽
- 範例操作與環境介紹
- 上機實作

MDK軟體下載

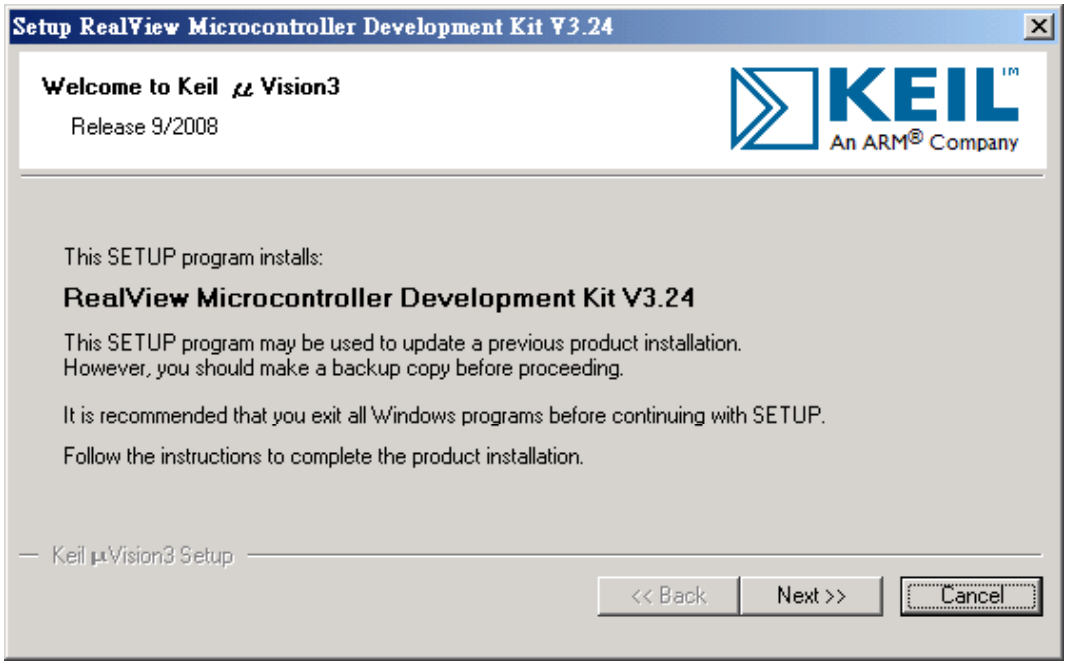
- 網址:https://www.keil.com/demo/eval/arm.htm
- 填入資料後下載



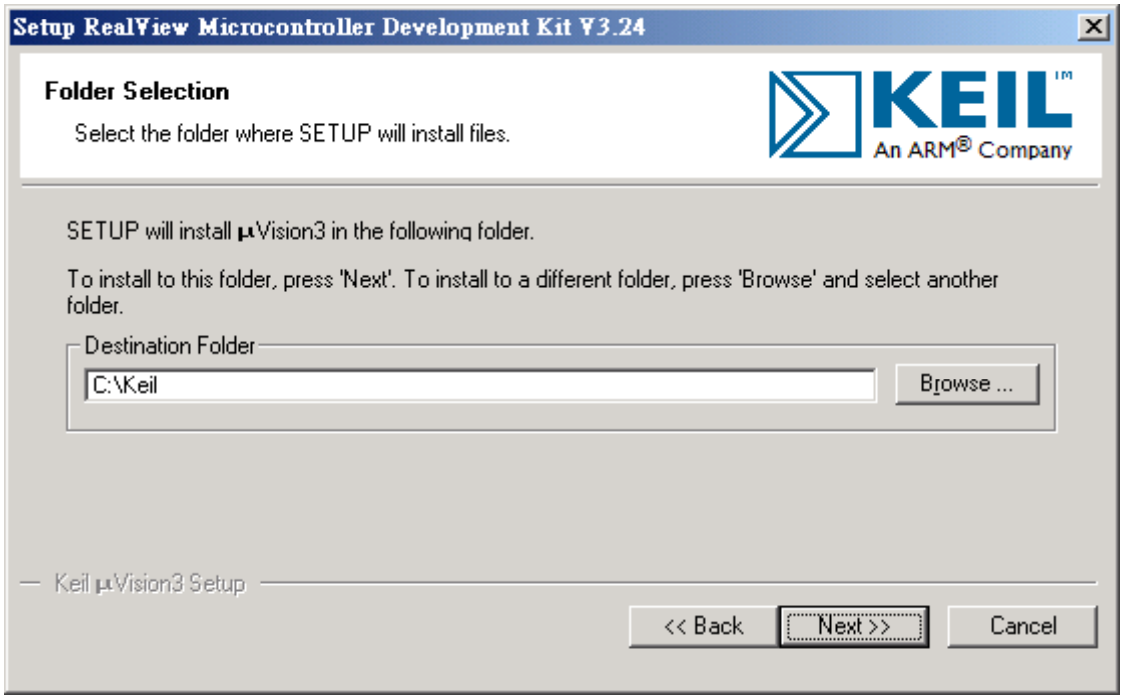
MDK軟體安裝

- 執行MDK324.exe

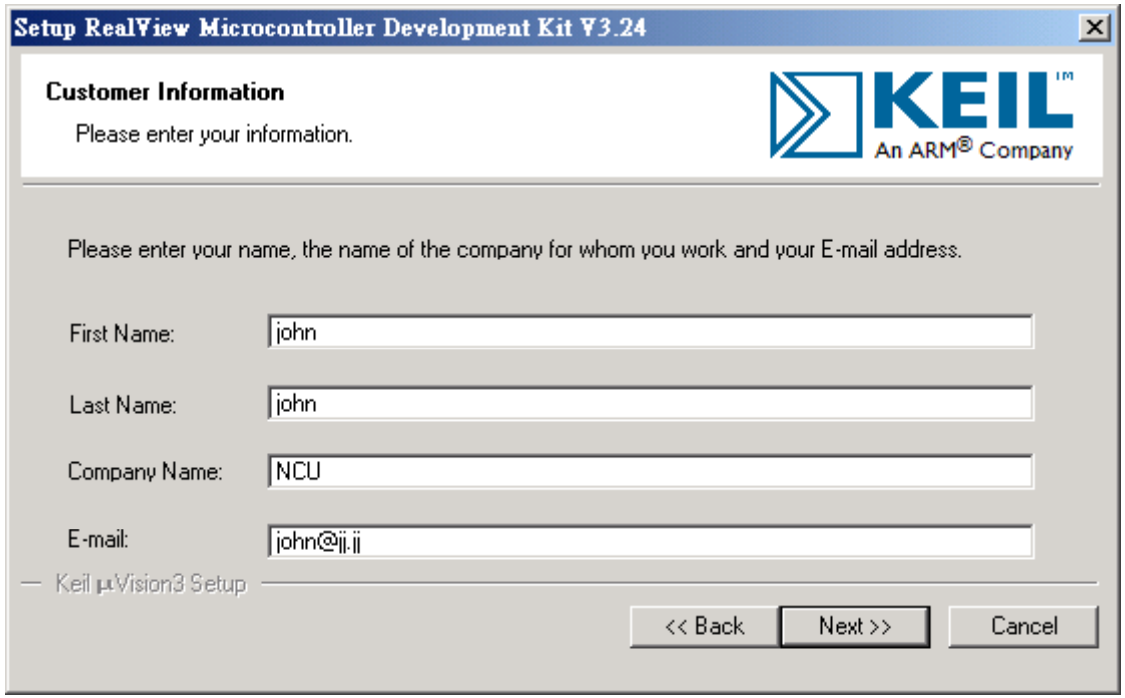
- 選Next



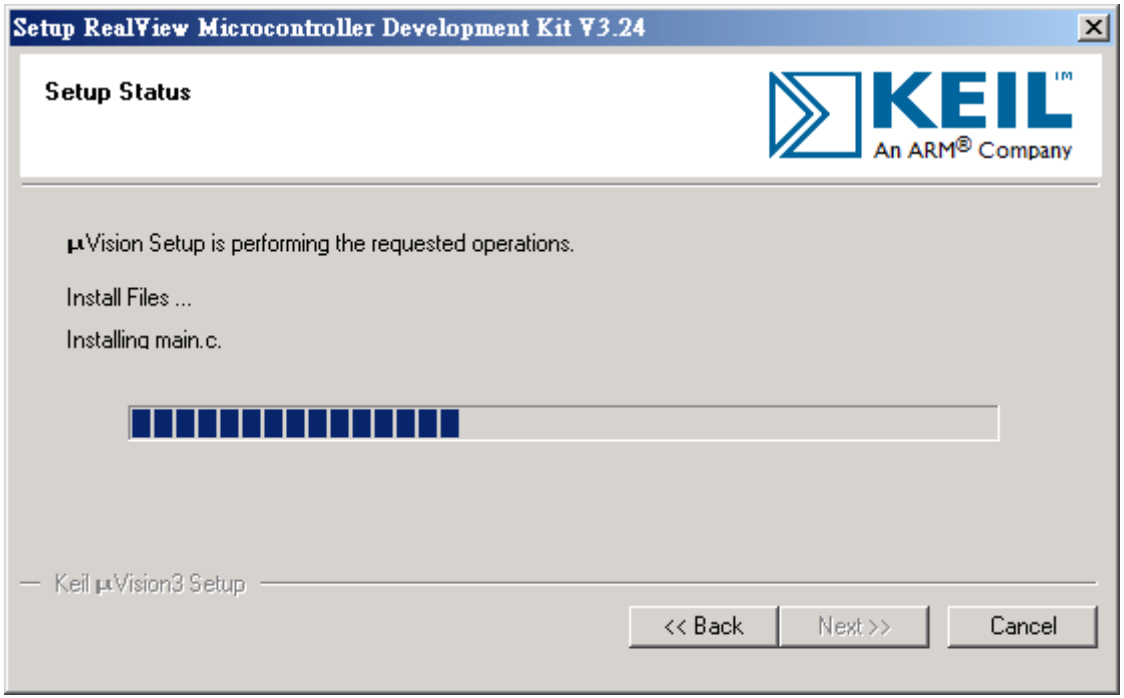
- 選擇開發工具安裝路徑，按Next



- 填入基本資料，按Next

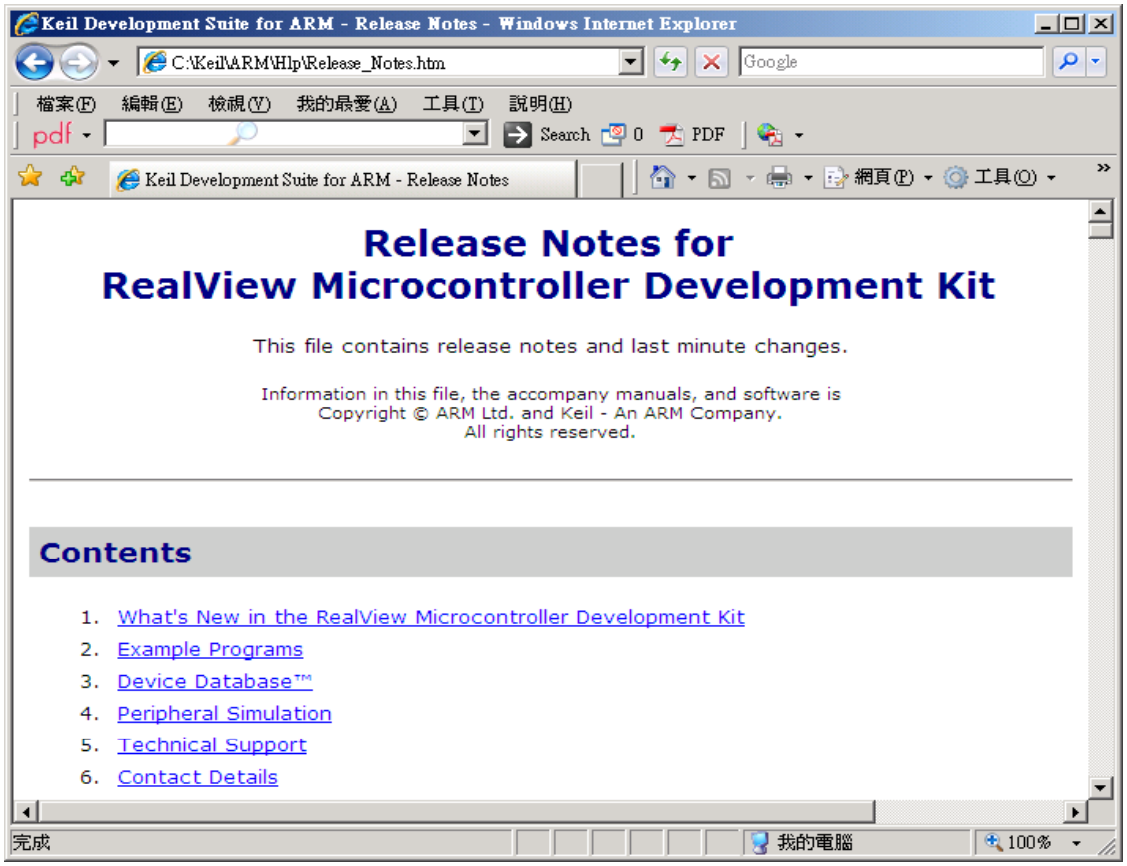


開始安裝

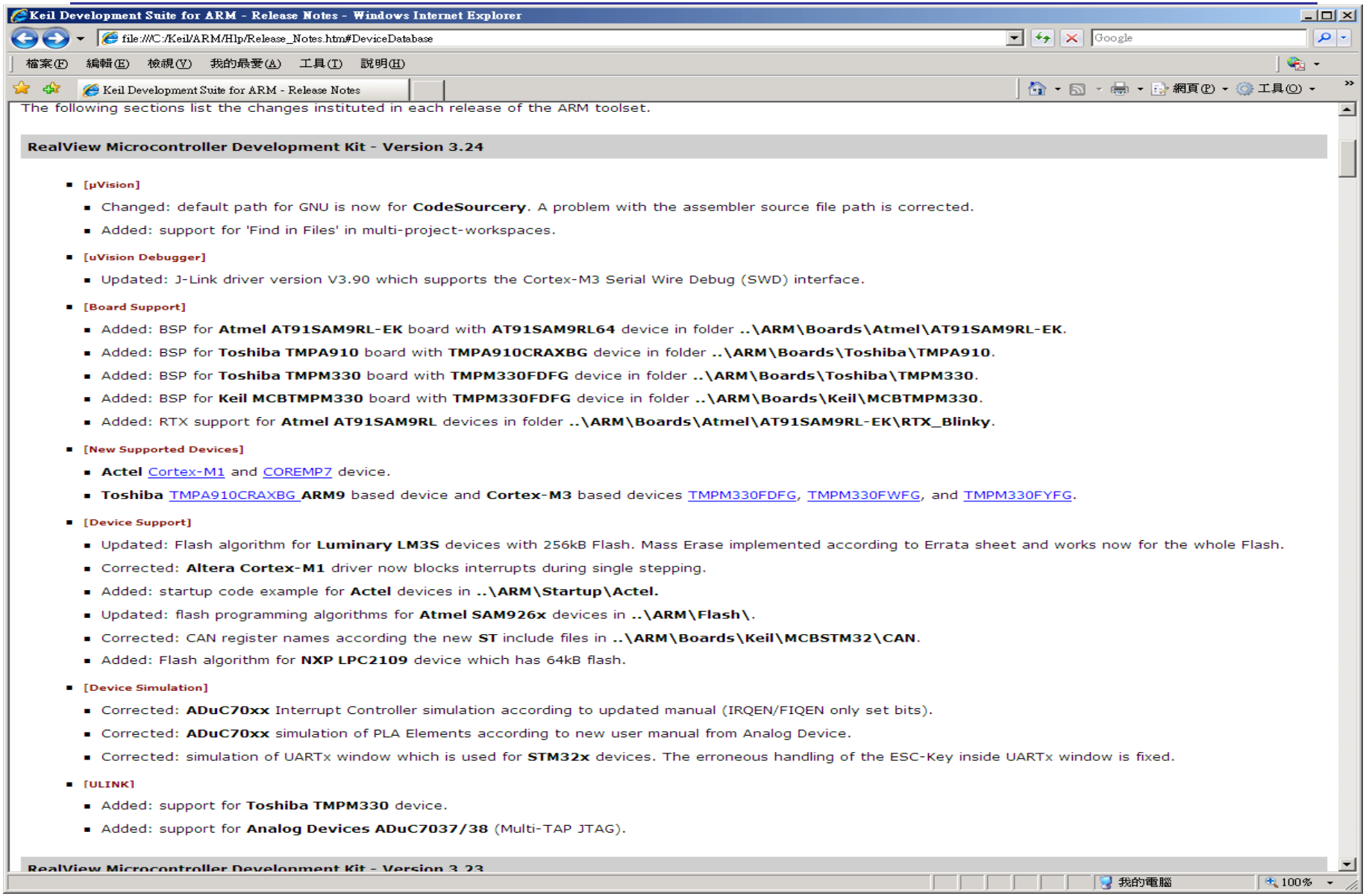

Setup RealView Microcontroller Development Kit V3.24
Setup Status
KEIL
An ARM® Company
µVision Setup is performing the requested operations.
Install Files ...
Installing main.c.
Keil µVision3 Setup
<< Back
Next >>
Cancel

Release Note瀏覽

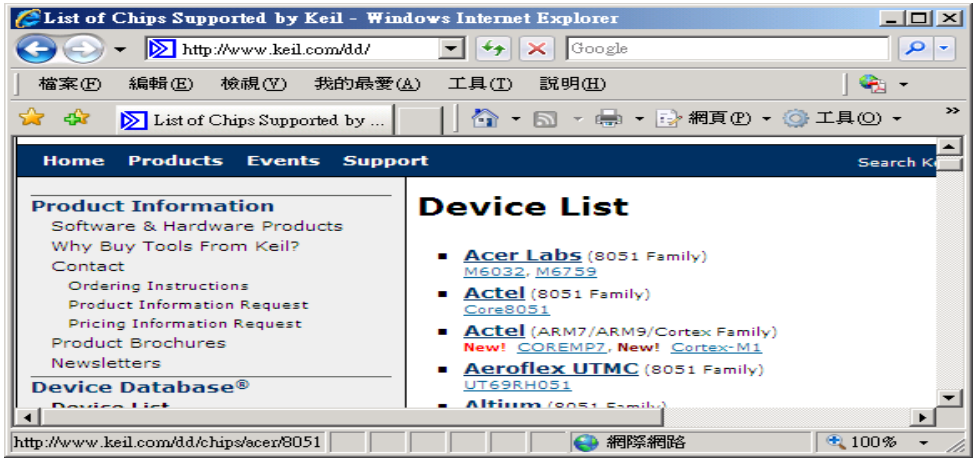
- 重要的Release Note資訊

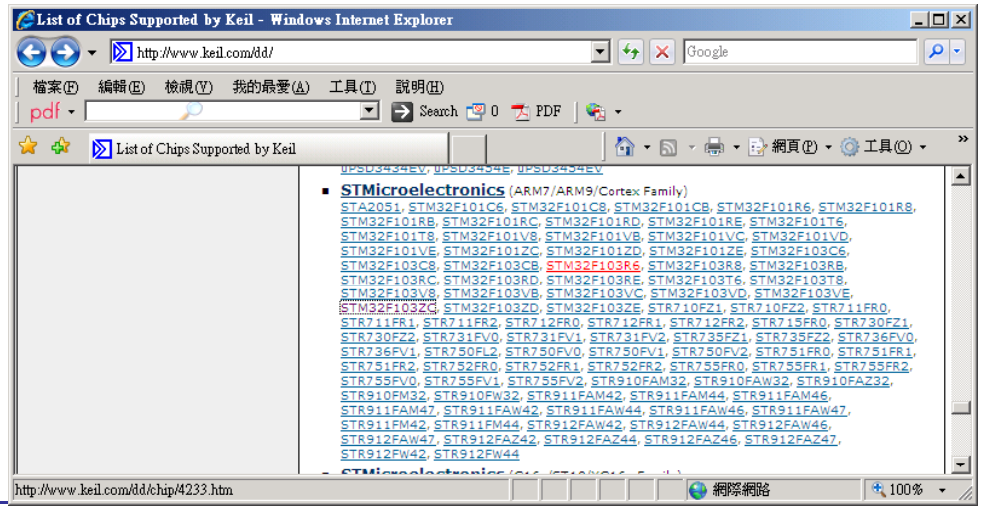


Keil MDK3.24版本更新資訊(包含uvision, Device support, ULINK 等等)

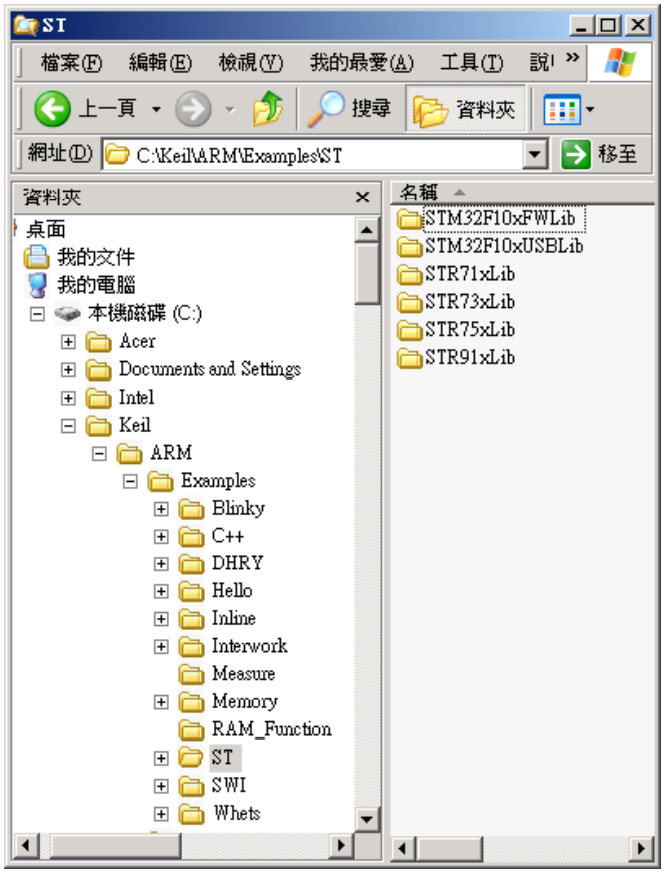


檢查支援的Device



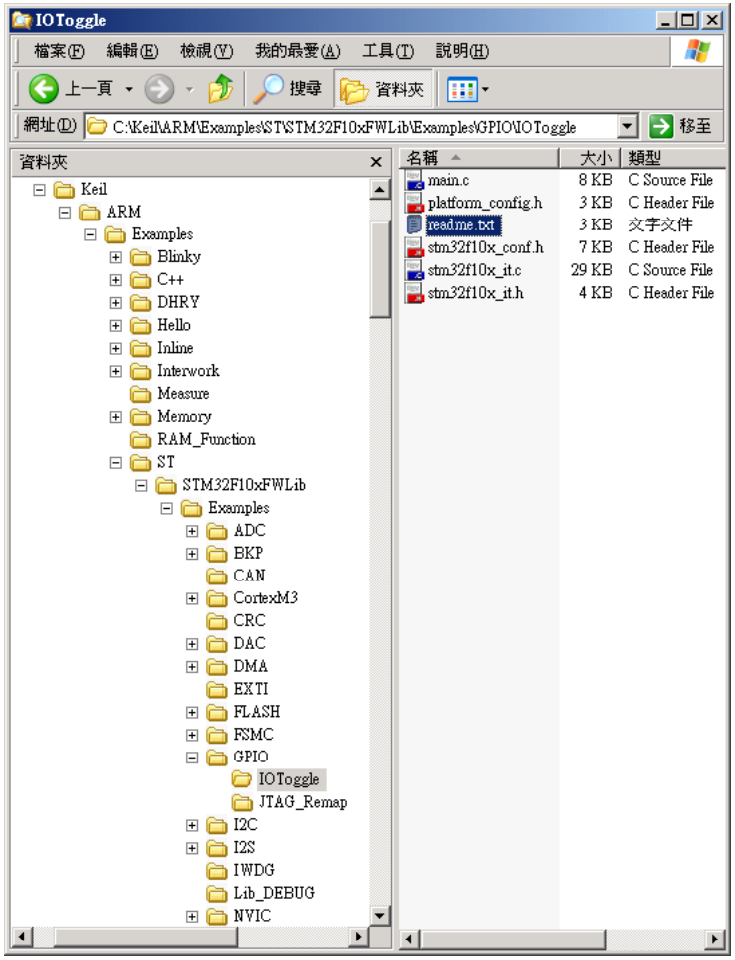


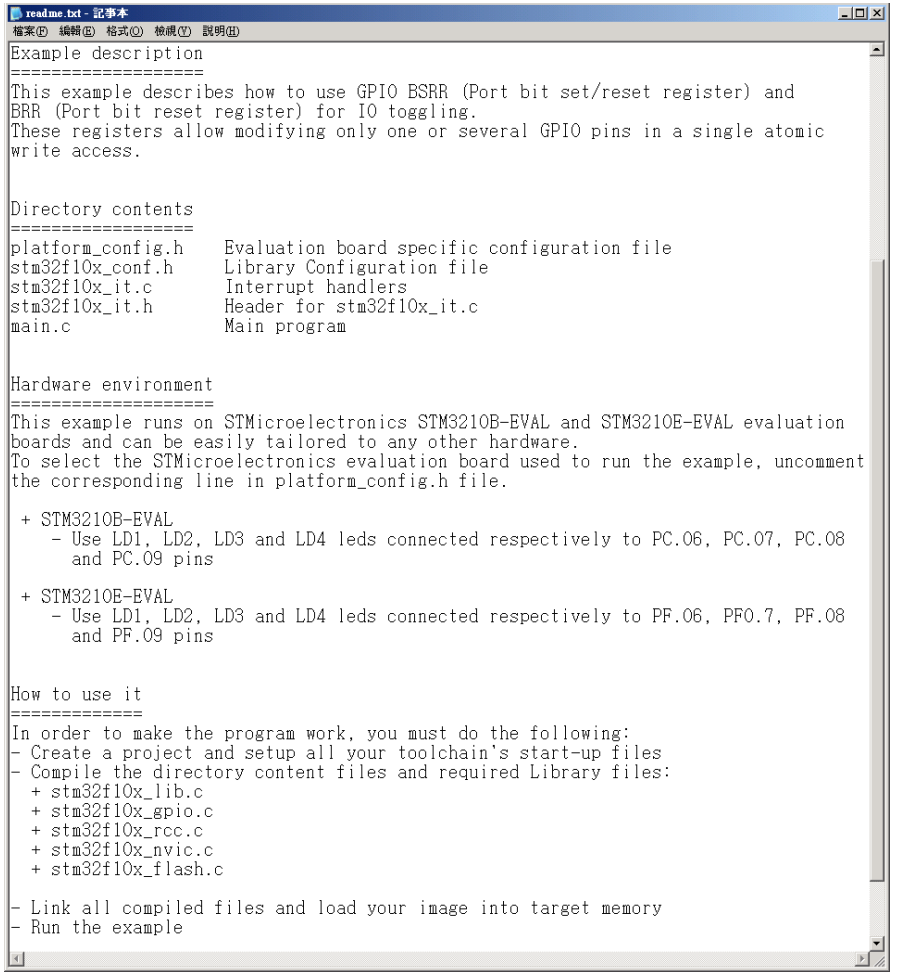
Release Note所指出可參考的範例程式之目錄位置



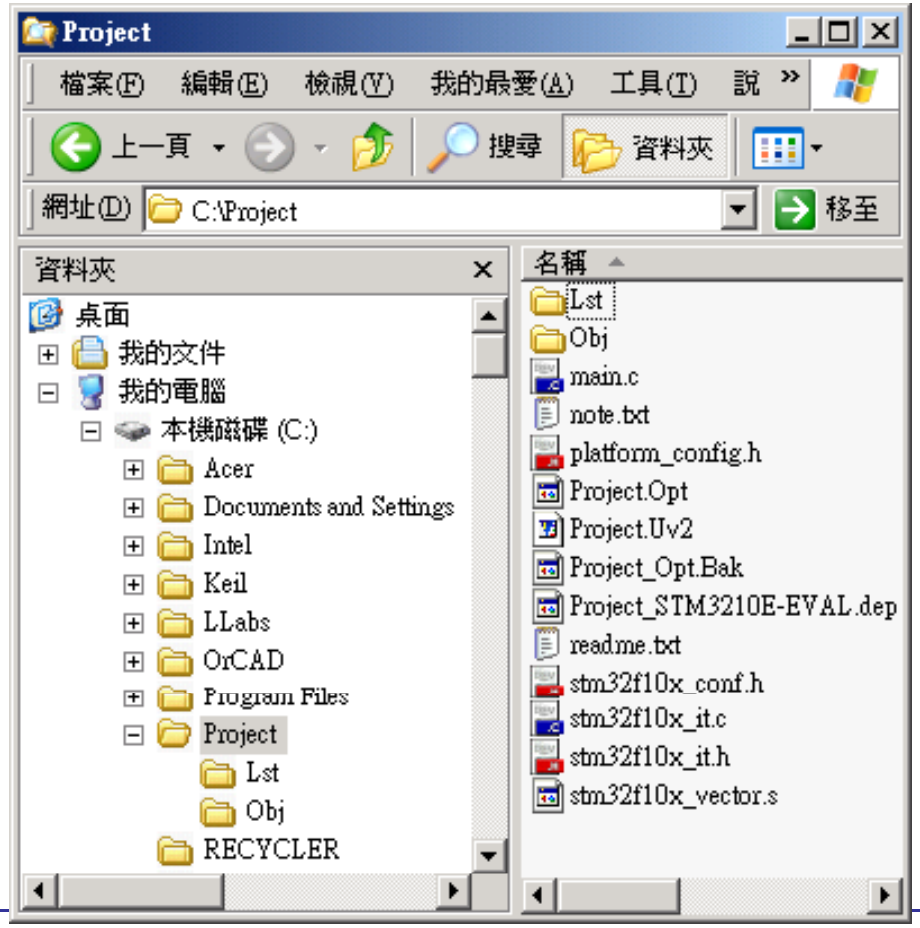
範例操作與環境介紹

- 以GPIO\IOToggle範例作介紹

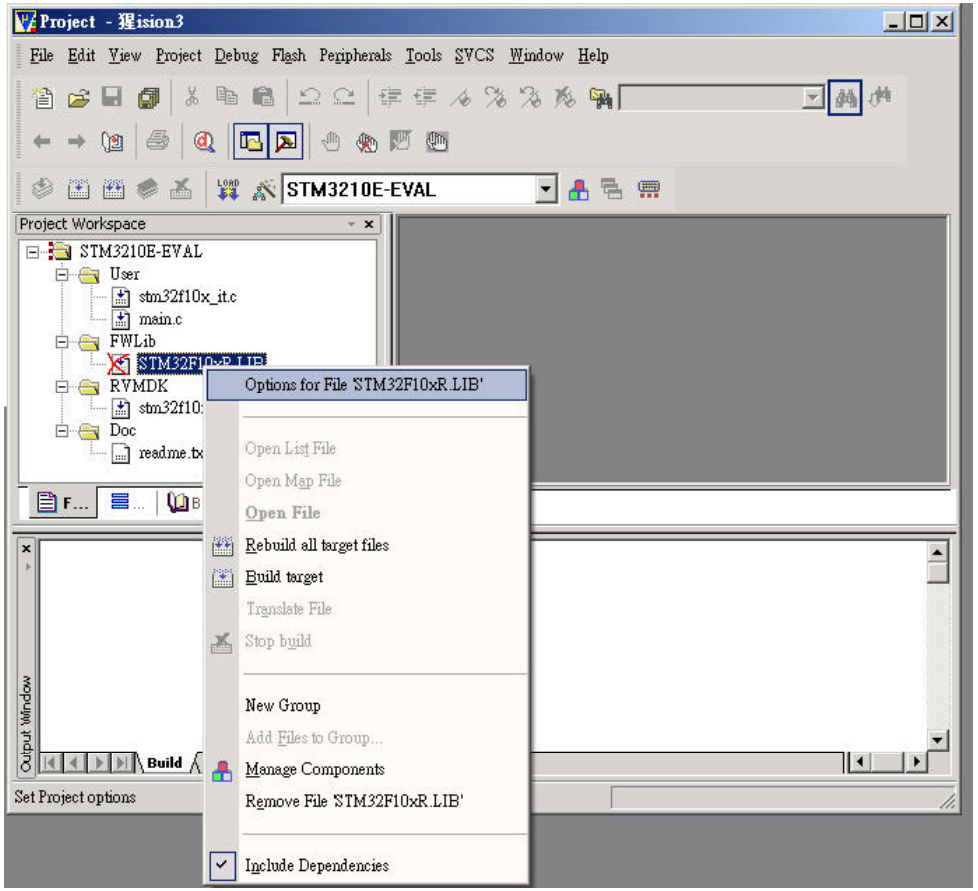


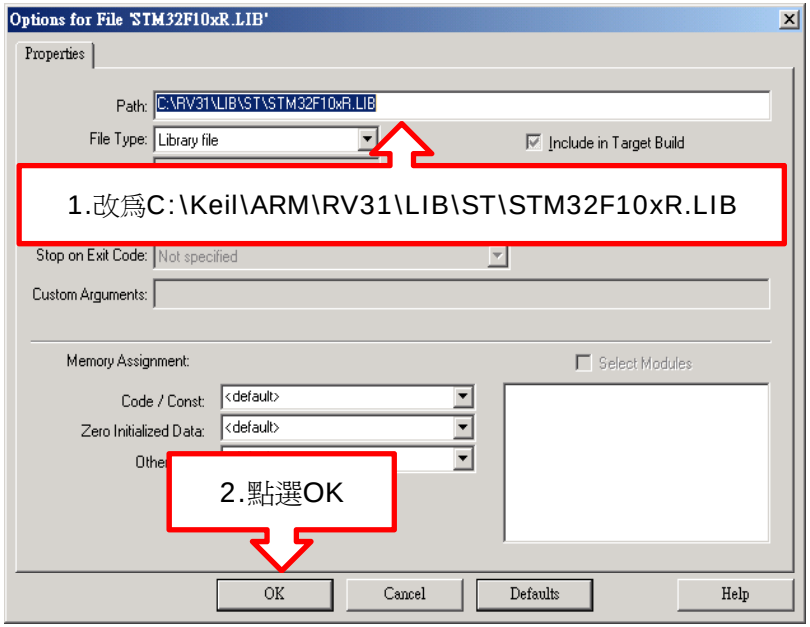


- 依序分別將C:\Keil\ARM\Examples\ST\...\Project與GPIO\IOToggle內的檔案copy到新的目錄C:\Projerct，再點選Project.Uv2可開啟開發環境

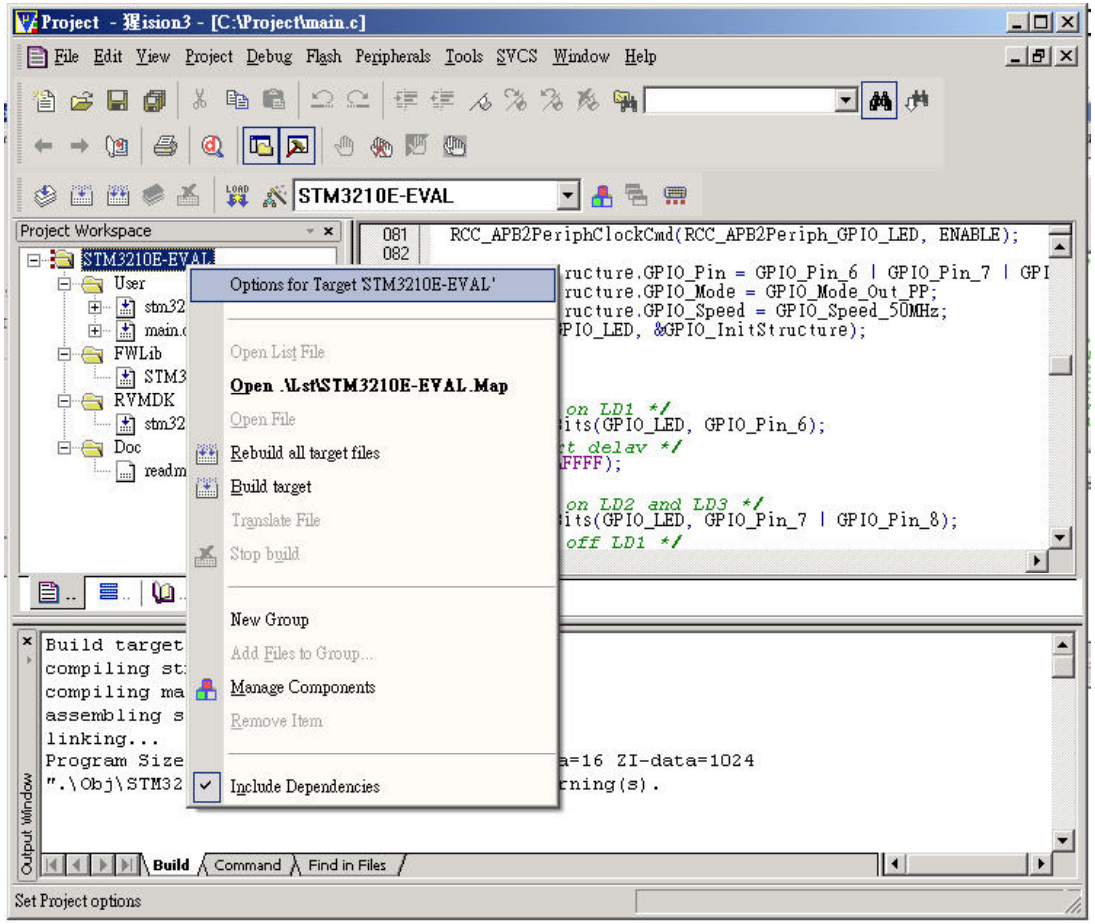


若STM32F10xR.LIB位置有打叉，則修改STM32F10xR.LIB路徑

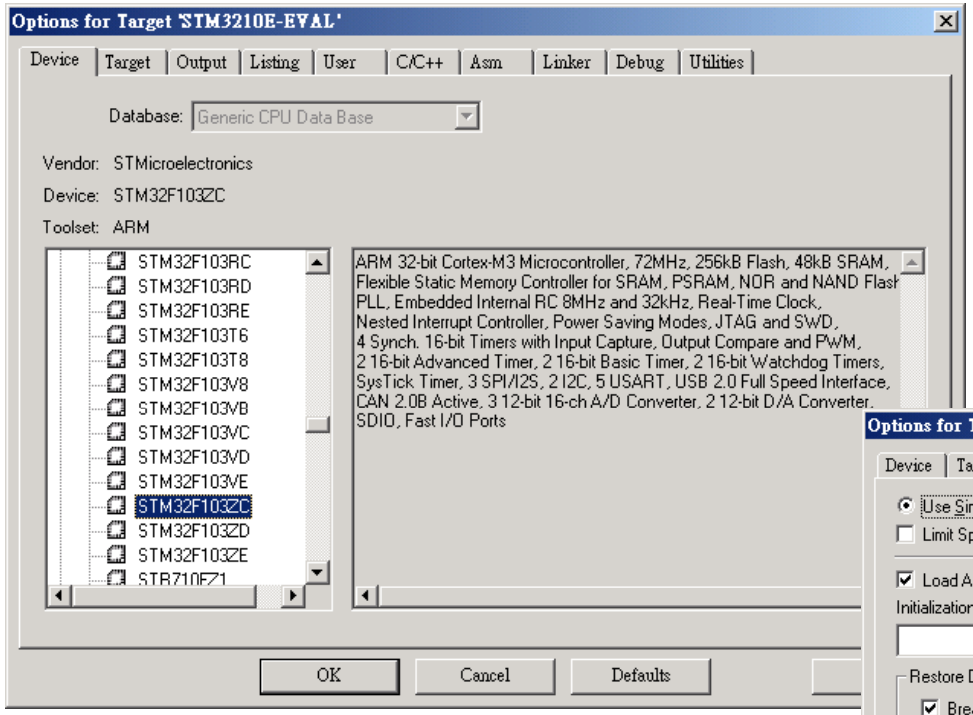


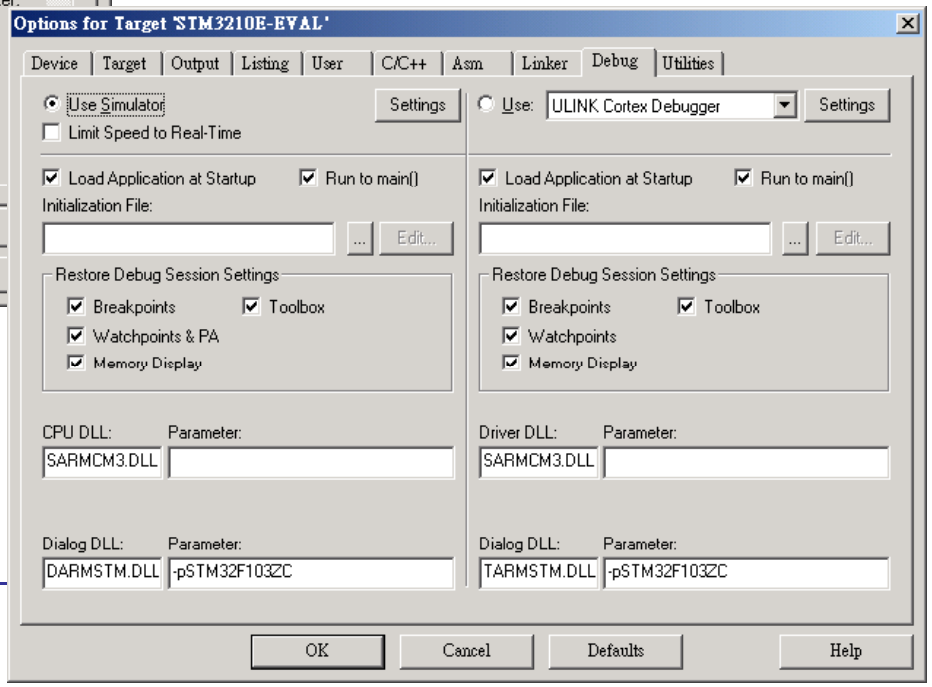


- 按滑鼠右鍵選擇Option for Target…

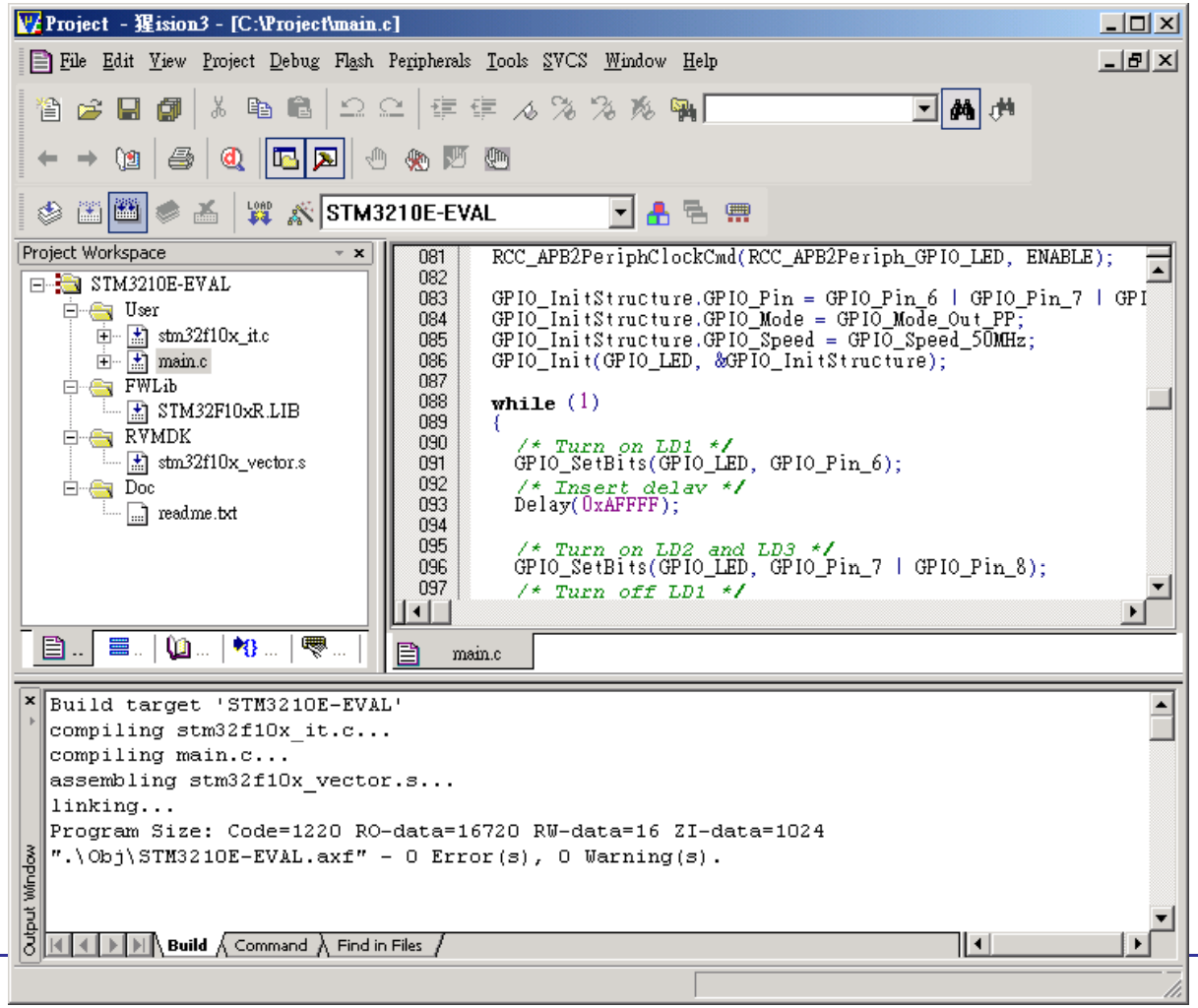


- 選擇Device與Use Simulator，按OK

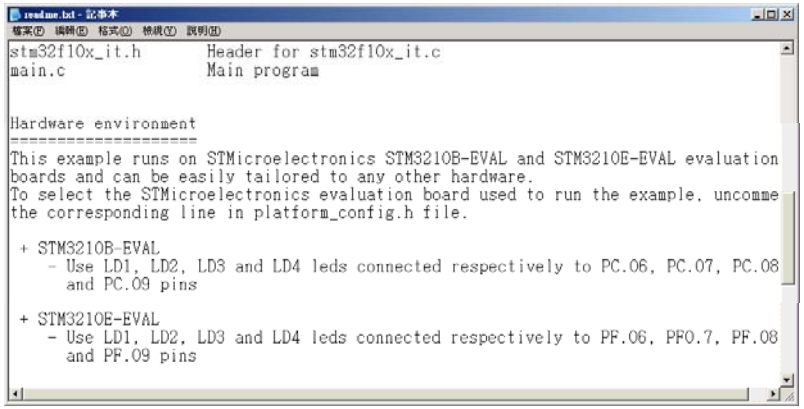


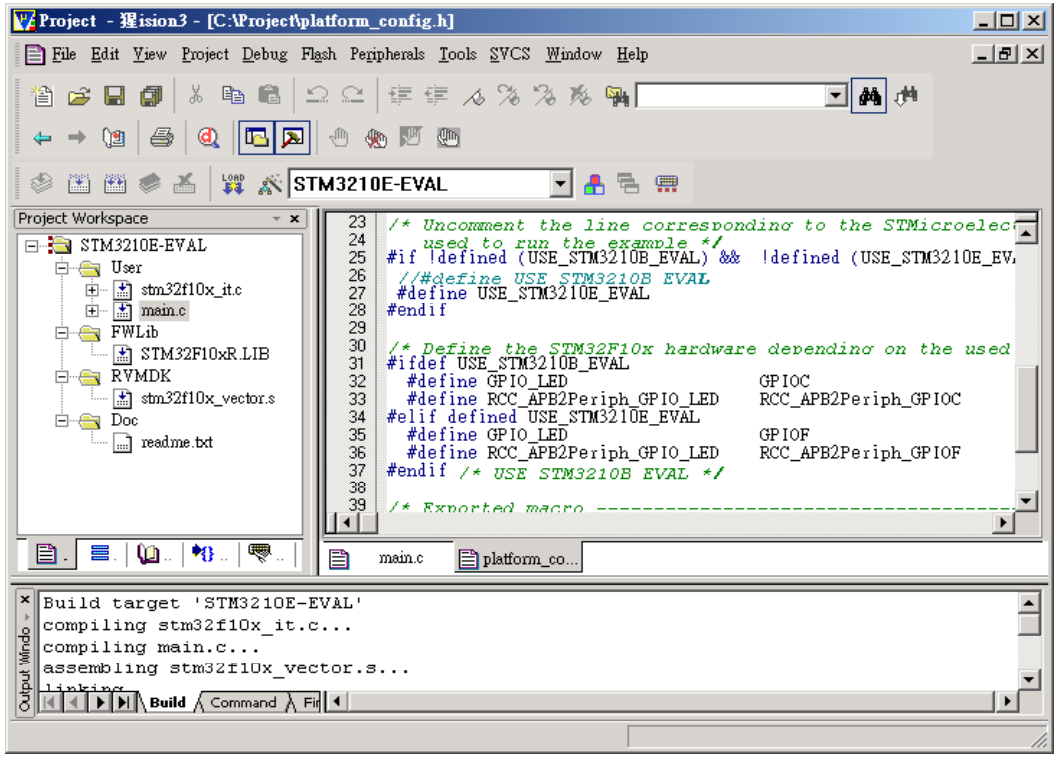


- Project->Rebuild all target files (執行編譯)

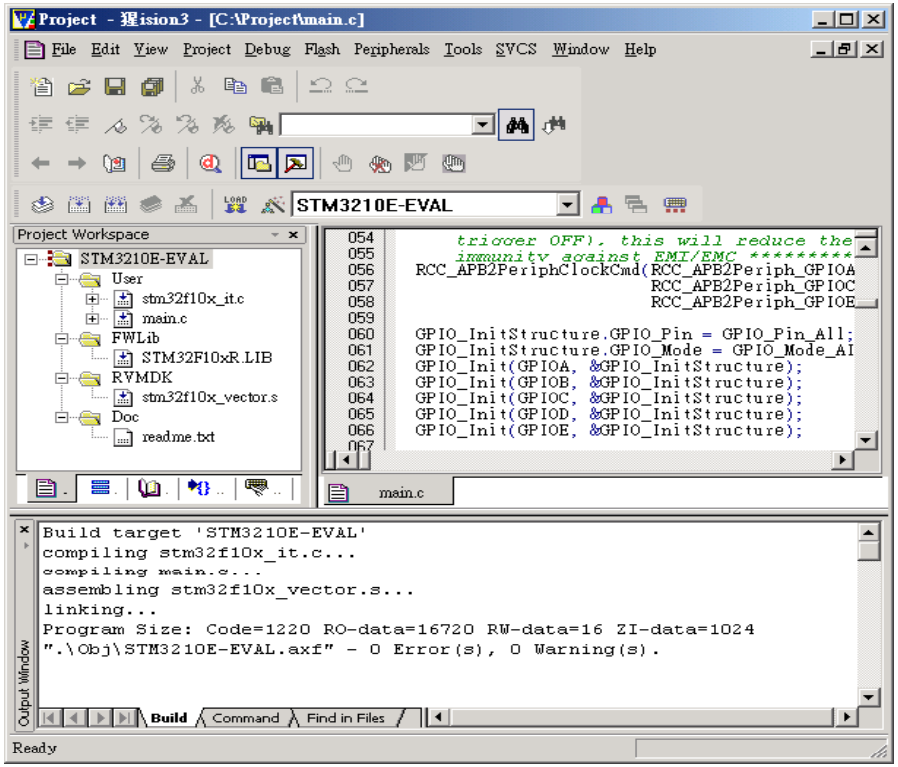


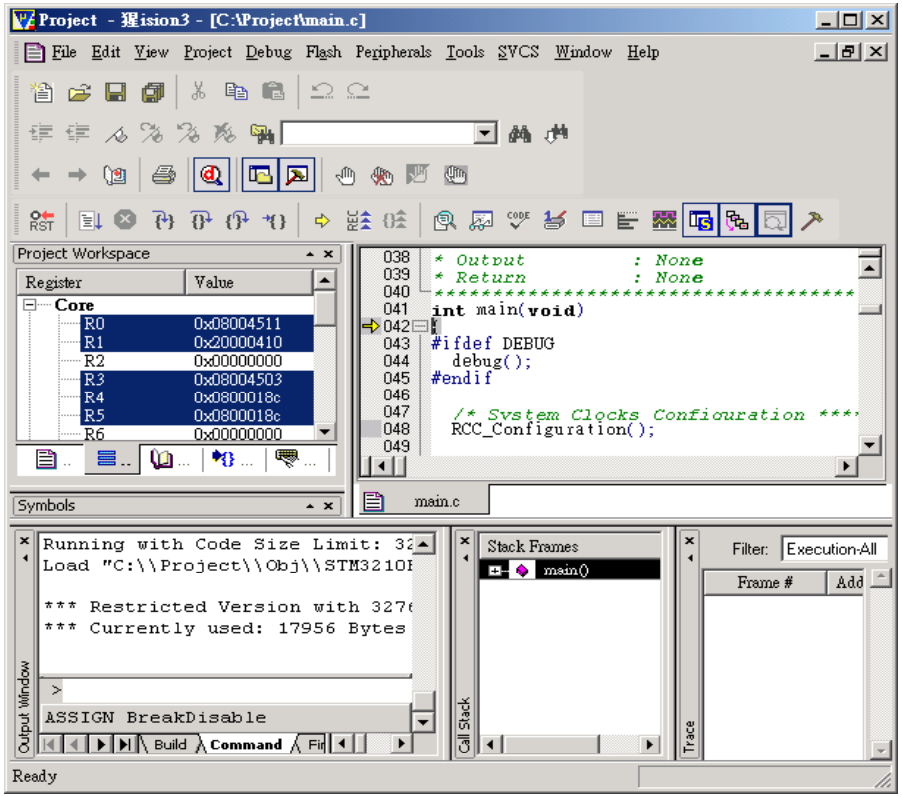
- 當Device選擇”STM32F103ZC”時，由Readme.txt與platform_config.h可知GPIO PF.6~9連接至 LED1~4



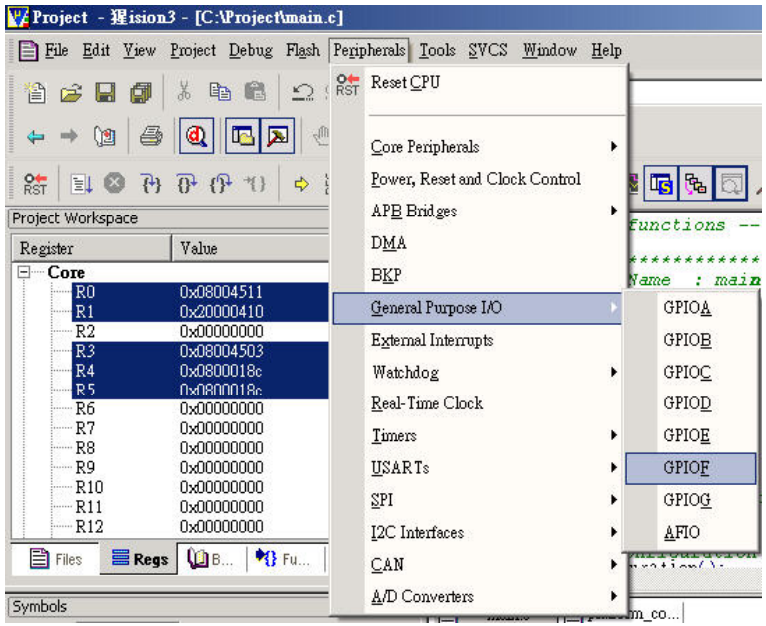


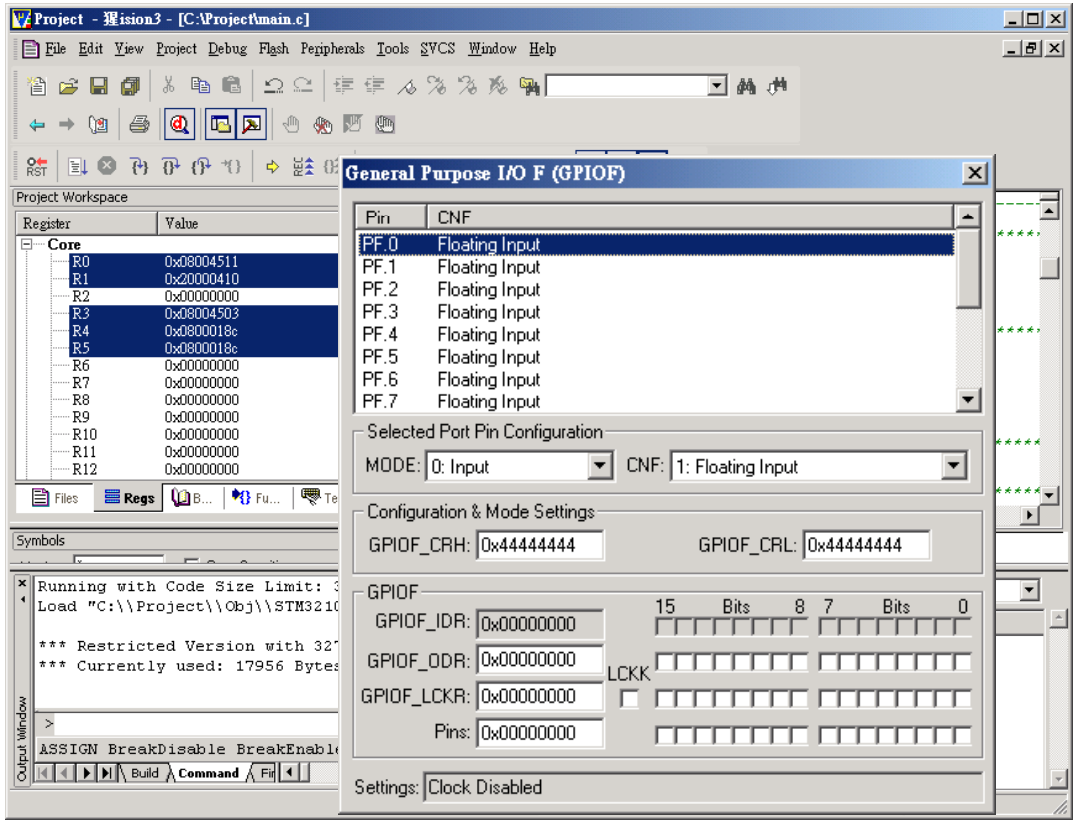
選 Start Debug Section



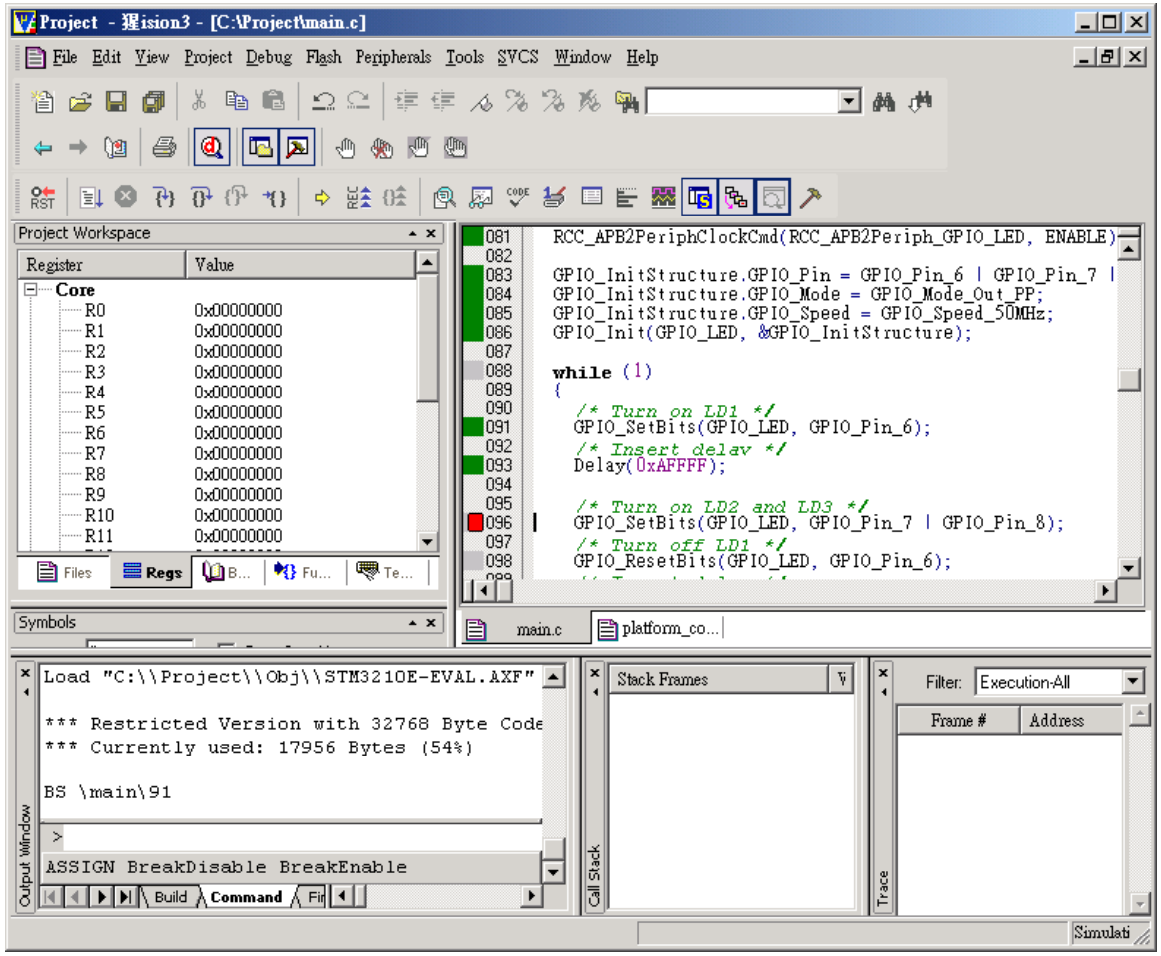


開啟GPIO Port F模擬視窗

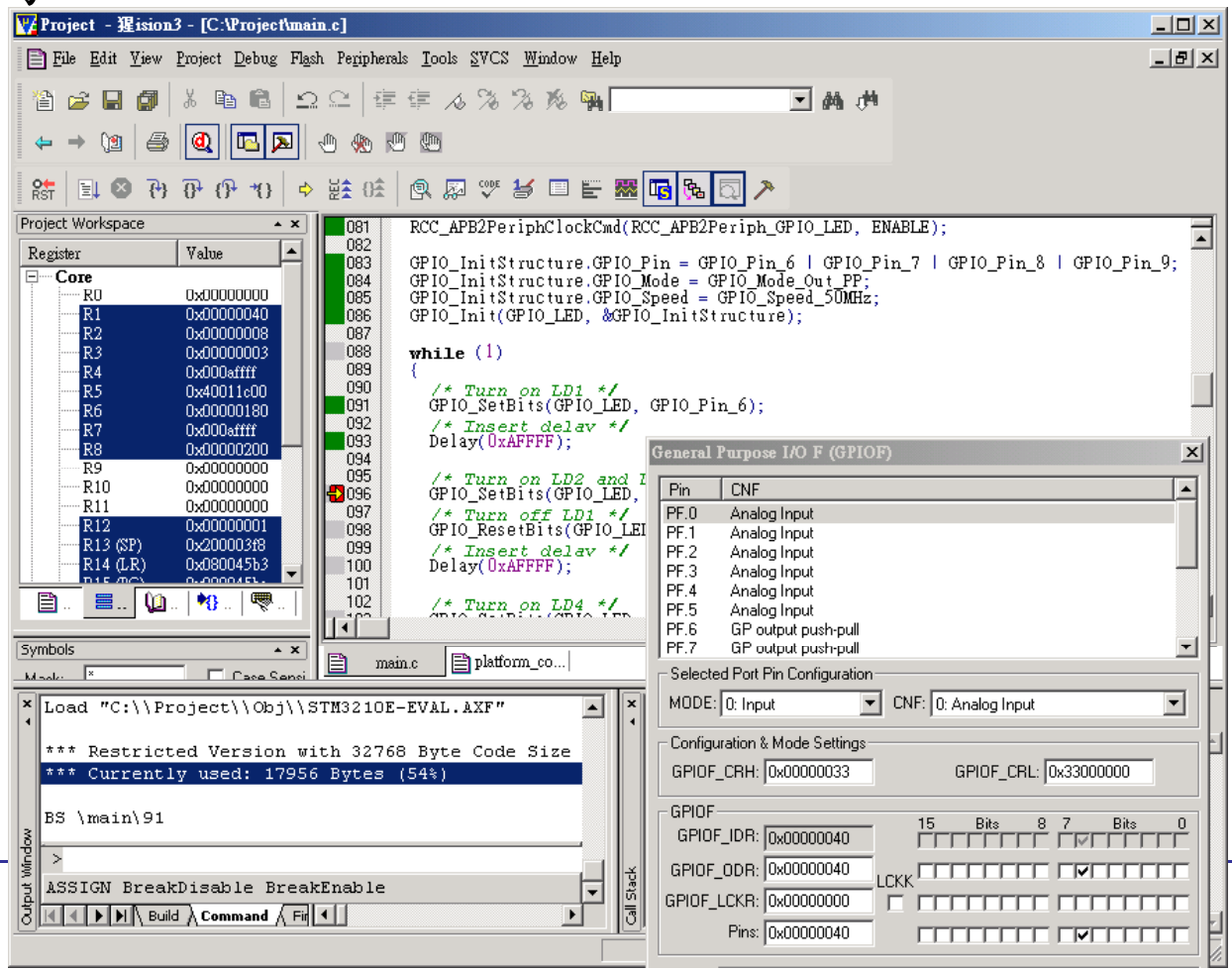




設breakpoint



- 按F10(Step over)，觀察一步一步執行的情況，可看出執行過 ”GPIO_SetBits(GPIO_LED,GPIO_Pin_6); ”, GPIOF.6 之狀態改變為 active



上機實作練習

- 以之前所示範之GPIO\IOToggle為例，參考下列程式碼之提示，重新建立專案目錄，將GPIOB9改為Input , GPIOF11改為output ，重新進行編譯與模擬，觀察動作是否正確。

```
// Configure PB9 (User Button)**********************
 RCC_APB2PeriphClockCmd(RCC_APB2Periph_GPIOB, ENABLE);
 GPIO_InitStructure.GPIO_Pin = GPIO_Pin_9;
 GPIO_InitStructure.GPIO_Mode = GPIO_Mode_IN_FLOATING;
 GPIO_InitStructure.GPIO_Speed = GPIO_Speed_50MHz;
 GPIO_Init(GPIOB, &GPIO_InitStructure);

 // Configure PF11 (User LED)*********************
 RCC_APB2PeriphClockCmd(RCC_APB2Periph_GPIOF, ENABLE);
 GPIO_InitStructure.GPIO_Pin = GPIO_Pin_11;
 GPIO_InitStructure.GPIO_Mode = GPIO_Mode_Out_PP;
 GPIO_InitStructure.GPIO_Speed = GPIO_Speed_50MHz;
 GPIO_Init(GPIOF, &GPIO_InitStructure);

 while (1)
 {
  if(GPIO_ReadInputDataBit(GPIOB,GPIO_Pin_9)==1)
                {
    // Turn on User LED
    GPIO_SetBits(GPIOF, GPIO_Pin_11);
    // Insert delay
    Delay(0xFFFFF);    Delay(0xFFFFF);    Delay(0xFFFFF); Delay(0xFFFFF);
    Delay(0xFFFFF);    Delay(0xFFFFF);

    // Turn off User LED
    GPIO_ResetBits(GPIOF, GPIO_Pin_11);
    // Insert delay
    Delay(0xFFFFF);    Delay(0xFFFFF);    Delay(0xFFFFF); Delay(0xFFFFF);
    Delay(0xFFFFF);    Delay(0xFFFFF);
                }
 }
```

Q & A

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