

Topic: 在 MATLAB 環境下使用 UniDAQ 函式庫.

1. 安裝泓格的板卡通用驅動程式 UniDAQ

下載頁面：<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/driver/>

2. 設定 MATLAB 環境下的預設編譯器

在 MATLAB 的 Command Window 下鍵入 `Mex - setup` 設定您的編譯器

```

Command Window
New to MATLAB? Watch this Video, see Demos, or read Getting Started.
>> mex -setup

Welcome to mex -setup. This utility will help you set up
a default compiler. For a list of supported compilers, see
http://www.mathworks.com/support/compilers/R2011a/win32.html

Please choose your compiler for building MEX-files:

Would you like mex to locate installed compilers [y]/n? y

Select a Compiler:
[1] Lcc-win32 C 2.4.1 in C:\PROGRA~1\MATLAB\R2011a\sys\lcc
[2] Microsoft Visual C++ 2010 in C:\Program Files\Microsoft Visual Studio 10.0
[3] Microsoft Visual C++ 2008 SP1 in C:\Program Files\Microsoft Visual Studio 9.0
[4] Microsoft Visual C++ 2005 SP1 in C:\Program Files\Microsoft Visual Studio 8
[5] Microsoft Visual C++ 6.0 in C:\Program Files\Microsoft Visual Studio
[0] None

Compiler: 5

Please verify your choices:

Compiler: Microsoft Visual C++ 6.0
Location: C:\Program Files\Microsoft Visual Studio

Are these correct [y]/n? y

*****
Warning: Support for Microsoft Visual C++ 6.0 will be discontinued in a
future release, at which time new versions will be supported.
For a list of currently supported compilers see:
  
```



3. 使用 UniDAQ 函式庫

- (1) 置入 UniDAQ.h 標頭檔在您的腳本目錄下
- (2) 在您的腳本第一行加入下方程式碼來載入 UniDAQ 函式庫。

```
loadlibrary('UniDAQ.dll', 'UniDAQ.h'); %Load UniDAQ DLL
```

4. 範例腳本

- (1) 您可利用下方程式碼，來查詢 UniDAQ 的 API 原型幫助您撰寫腳本。

```
libfunctions UniDAQ -full %List the UniDAQ DLL Functions
```

- (2) 您可至 <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/matlab> 下載泓格所提供的 MATLAB 範例腳本。