



Topic: How to use UniDAQ DLL in a MATLAB environment.

1. Install the general driver -UniDAQ for the ICP DAS I/O Card.

Driver Download page:

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidag/dll/driver/>

2. Set up a default compiler in the MATLAB environment

In the MATLAB “Command Window” , enter the COMMAND “**Mex -setup**” to set up a default compiler.

```
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. Using the UniDAQ DLL

- (1) Copy the UniDAQ.h header file to the script folder.
- (2) Add the code below to the first line of your m-file script to load the UniDAQ DLL.

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

4. Sample code (m-file)

- (1) You can use the below code to inquire the API functions for UniDAQ.

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

- (2) The download page for ICP DAS I/O Card MATLAB sample code is:
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/matlab>