



WinDriver ISA Basic Input Output - IO Sample

The source code for this project is provided with Jungo WinDriver. To compile this application, you will need a compiler and CMake installed.

Files

- **basic_io.c**
The main file which demonstrates access to the ISA cards with basic I/O ports, using the low-level WinDriver APIs.
- **CMakeLists.txt**
An input file for the CMake build system.
- **readme.pdf**
Describes the sample files.

We provide several methods of compiling this code:

Compiling this project using Microsoft Visual Studio/Visual Studio Code

- If you are using Microsoft Visual Studio 2017 and higher or Visual Studio Code, make sure to have installed CMake support for it.
- Open the `CMakeLists.txt` file and Visual Studio will process it and allow to access the relevant target using the **CMake Targets View**.
- This will allow you to build the project.

Compiling using a different IDE/Compiler:

- From the terminal, run the following command from the working directory of this project:

```
$ cmake . -b build
```

This will create a Unix Makefile for the project in a new sub-directory named `build`. To build it, change directory to that sub-directory and run

```
$ make
```
- You can use CMake to generate projects for various other platforms and IDEs. Consult CMake's documentation for more info.

Creating your own project

- Create a new project using your IDE.
- Choose console mode project.
- Include the following files in the project:
`basic_io.c`
- Include the WinDriver Diagnostics samples shared files:
`(WD_BASEDIR)/samples/c/shared/wdc_diag_lib.c`
`(WD_BASEDIR)/samples/c/diag_lib.c`
`$(WD_BASEDIR)` is the directory where WinDriver is installed at.
- Link your project with `$(WD_BASEDIR)/lib/wdapi<version>.lib` (Windows)
or `$(WD_BASEDIR)/lib/libwdapi<version>.so` (Linux)

or `$(WD_BASEDIR)/lib/libwdapi<version>.dylib` (MacOS)

In order to access WinDriver's High-Level API.

`$(WD_BASEDIR)` is the directory where WinDriver is installed at.

- Make sure to add the relevant flags to your system:
 - DKERNEL_64BIT if using a 64-bit operating system.
 - DWD_DRIVER_NAME_CHANGE if using a renamed driver.

Converting to a GUI application:

This sample was written as a console mode application (rather than a GUI application) that uses standard input and standard output. This was done in order to simplify the source code. You may change it into a GUI application by removing all calls to `printf()` and `scanf()` functions, and calling `MessageBox()` instead (on Windows). On other operating systems - you can use the relevant libraries such as GTK or Qt.