

Instructions for using the Labjack U12 driver functions with NI Labwindows CVI (nowadays part of the NI Measurement Studio).

1. After installing the Labjack U12 device and software you will have the files

ljackuw.h
ljackuw.dll

on your computer.

2. Copy ljackuw.h to your working CVI directory (I use for instance D:\cvi). Create a new CVI-project save it as e.g. ljack.prj. Create a new source and save it as ljack.c and add it to the ljack-project. Add also ljackuw.h to the project and open it. Insert the line

```
#include <windows.h>
```

into ljackuw.h before the function declarations and save it. This ensures the CVI compiler will understand "WINAPI". With ljackuw.h open go to the menu item "Options" --> "Generate DLL import library". The program will then ask for the location of the ljackuw.dll file and create a ljackuw.lib file from it (it may show "errors" while creating this but they are typically of no concern as far as they refer to functions that are not meant to be exported). Add this new ljackuw.lib to your ljack project. Insert also the line

```
#include "ljackuw.h"
```

into your source code ljack.c (here ljackuw.h is the one w/ the new line inserted).

3. Now the driver functions listed and explained in the Labjack manual should be accessible in your project. A very simple test example is provided with the ljack project example included. It reads and writes voltages from Ch 0 to the screen. For this to work you have to make the ljackuw.lib as explained above and maybe change the paths of the files in the project.

4. When you got ljack project working you might try ljack2 project w/ a graphical display of the input from a chosen channel.

