

Installation of drivers and getting started with the software

Before your first class:

1. Visit <http://joule.ni.com/nidu/cds/view/p/id/3423/lang/en> Download the NI Downloader for the DAQmx version 9.6 software. This contains files for the drivers and running the data acquisition hardware. The file is quite large so you probably want a wired connection to the internet. You will need to register through National Instruments, but the file is a free download.
2. Install the file. It will take a long time. Accept the defaults and just keep clicking OK. You will probably be asked to install Microsoft .NET. Just accept it. Follow the directions to reboot the computer. The whole install might take about an hour. **Please reboot!**

During your first lab class:

1. Look under “National Instruments” in your programs and run the “Measurement and Automation Explorer”.
2. Plug your USB 6009 Data Acquisition hardware (DAQ) into your computer through the USB cable. If everything was installed properly, then the hardware should be recognized. If it is not, then you likely need to reboot. It may take a few minutes the first time you plug the device in to show up.
3. Look in the “Measurement and Automation” program. On the tabs on the left. Under devices and interfaces, you should find the NI USB-6009 listed as ‘Dev1’. Each time you plug a different serial number DAQ in, it will be default be added as ‘Dev2’ and so on. Click on your device and click “self-test” at the top. If you pass the self-test, the device is installed and ready to go.
4. Launch MATLAB. You should be running 64 BIT Release 2012a or 2012b. Either should work.
5. At the command prompt type the command: **daq.getDevices** . If the program returns that you have the National Instruments USB-6009 plugged, then you are probably all good. The first time you type this command, it may take a while for the command to return to you.
6. In past years we had students who had already installed the full LabView suite by National Instruments. Occasionally this previous install conflicted with MATLAB. If you have issues getting everything to work, please let us know if you already had LabView installed.