

# Windows Simulator and Library

[Installation](#)[Your First Project](#)

With this set of instructions, we will install the **DAQlib** Library and simulator on Windows systems for use with Visual Studio 2017. For other platforms, such as MacOS, go to the appropriate installation page.

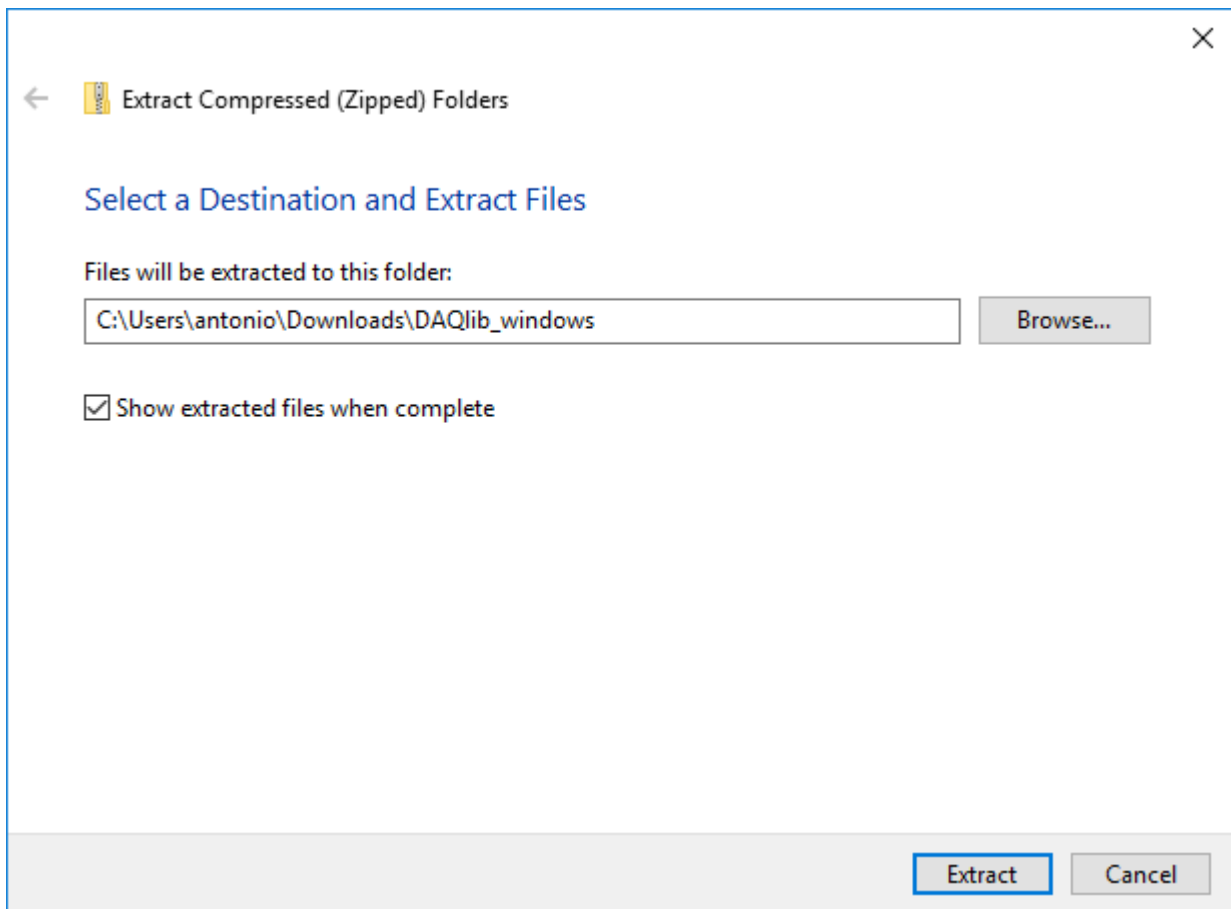
For the instructions below, you will need to download the following zip file:

- [DAQlib\\_windows.zip](https://apsc160.github.io/daqinstall/assets/DAQlib_windows.zip) ([https://apsc160.github.io/daqinstall/assets/DAQlib\\_windows.zip](https://apsc160.github.io/daqinstall/assets/DAQlib_windows.zip))

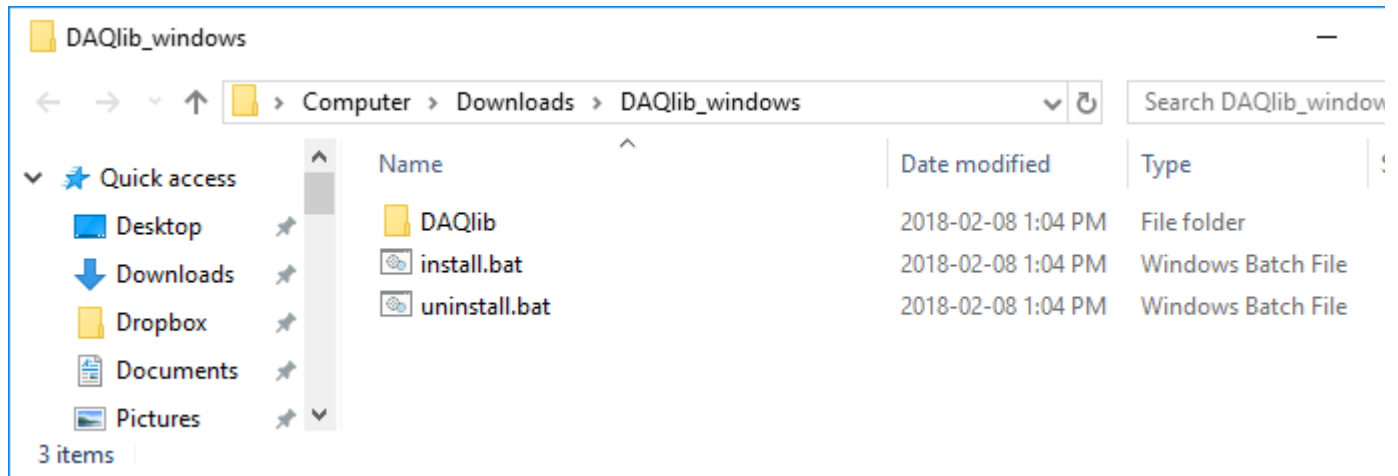
## Installation for a Single User:

To install the DAQlib library and simulator for Visual Studio on your local computer, we will first **download a zip file** containing all the required headers, libraries, and binaries, and then run an **installation script** that will create a new project template to access these files.

1. Download the DAQlib zip file for your system above. This should create a zip file called [DAQlib\\_windows.zip](#) in your downloads folder.
2. Unzip the file by right-clicking on [DAQlib\\_windows.zip](#) and selecting **Extract all...**  
Leave the checkbox **Show extracted files when complete** checked.

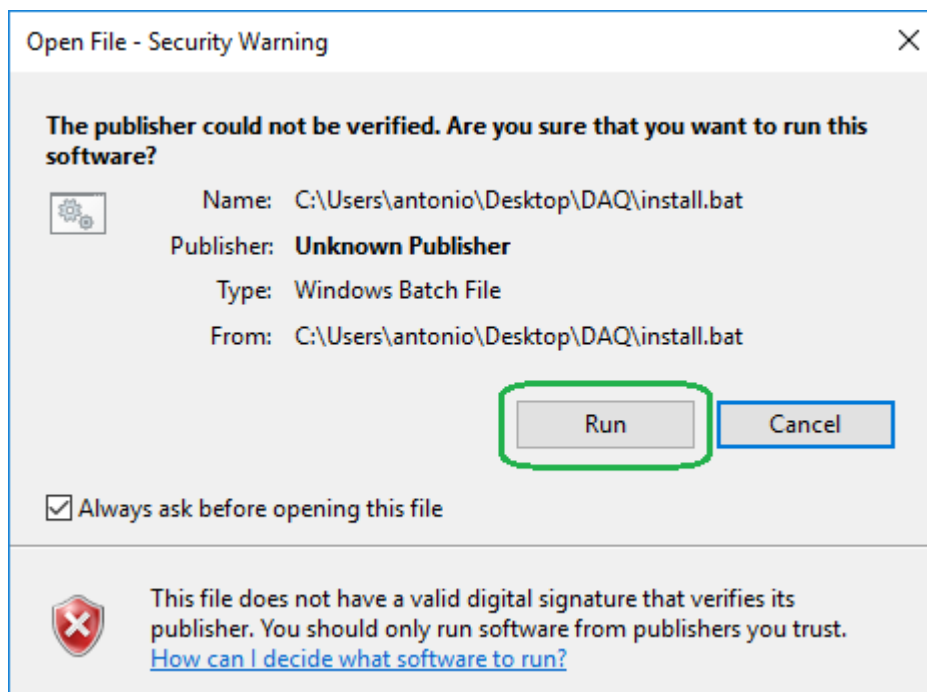


Inside the unzipped folder, you should see a new subfolder named [DAQlib](#), as well as two script files: [install.bat](#) and [uninstall.bat](#).

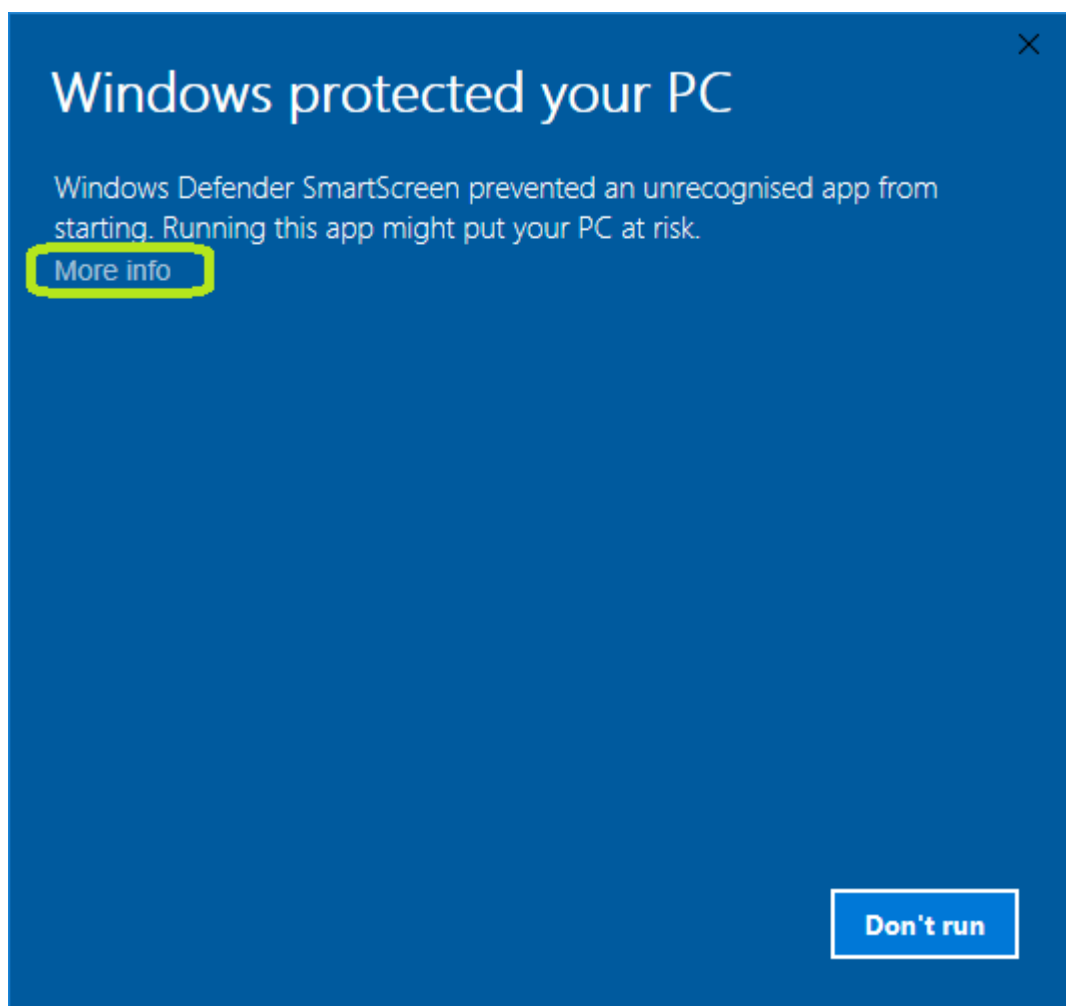


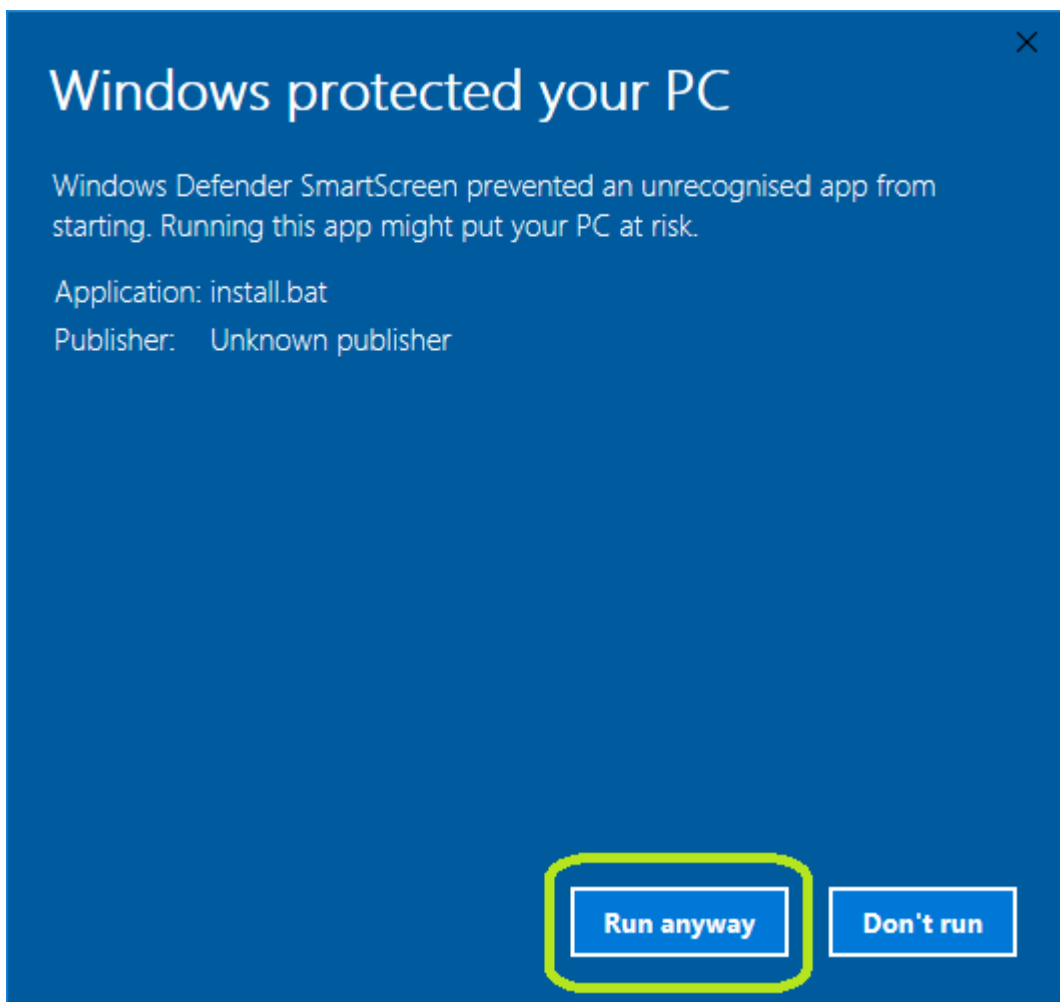
3. Double-click on **install.bat**

If you get a security warning about opening a file with an unverified publisher, select **Run**.



In Windows 10, if you get a SmartScreen warning message saying that it has prevented you from running the application, first click on **More info** and then **Run anyway**





4. The installation script will ask you to confirm you wish to install the library and simulator. Type 'Y' or 'y' to accept.

The script will then install a new Visual Studio project template that is configured to find the DAQlib library and simulator programs. If successful, it should give an output similar to the following:

```
C:\WINDOWS\system32\cmd.exe
Running installer as user Antonio
Do you wish to install DAQlib for user Antonio [Y/N]? Y
Installing DAQlib for user Antonio ...
Copying files to program directory 'C:\Users\antonio\AppData\Roaming\APSC160\DAQlib'
Copying template to directory 'C:\Users\antonio\Documents\Visual Studio 2017\Templates\ProjectTemplates\Visual C++ Project\APSC160\DAQlib'
The DAQlib library and Visual Studio template have been successfully installed.
They should be available the next time Visual Studio is started.
Press any key to continue . . .
```

If you encounter an error that you cannot resolve, please either post a message on the discussion board with the output of the install script, or see a TA or instructor to help you complete the installation.

## Installation for All Users:

The previous instructions will install the DAQlib library and simulator only for the current user. To install globally, for all users on a particular machine, follow the same instructions but run the `install.bat` file as Administrator. This can be done by right-clicking on the file and selecting "**Run as administrator**".

## Manual Installation:

Due to some machine-specific configurations, the above installation script may fail. If this happens to you, you can still install the simulator and library manually using the following steps.

1. Extract the the downloaded zip file and copy the contained **DAQlib** folder.
2. In Windows Explorer, type **%APPDATA%** in the address bar and hit enter. This should bring you a path like **C:\Users\yourusername\AppData\Roaming**
3. Create a new folder here called **APSC160**, and paste the copied **DAQlib** folder inside
4. Inside the **DAQlib** folder, go inside **VS** and copy the DAQTemplate folder
5. Go to your user's **Documents** folder, which on most systems is **C:\Users\yourusername\Documents**, though you should see a link in the left Quick-Access panel.
6. Within the **Documents** folder, navigate to **Visual Studio 2017\Templates\ProjectTemplates\Visual C++ Project**
7. Create a new folder here called **APSC160**
8. Inside **APSC160**, create a new folder **DAQlib**, and paste the **DAQTemplate** folder inside
9. Restart Visual Studio

## Uninstalling the Library:

To uninstall the DAQlib library, simply run the **uninstall.bat** script. If run as Administrator, the script will attempt to uninstall a global installation.