

# Installing Screamer on a Windows 10 PC

**1. We need to download the MinGW64 environment. This will allow us to compile Fortran and C++ programs.**

Download MinGW64 from

<https://sourceforge.net/projects/mingw-w64/files/latest/download>

Run the downloaded executable to install MinGW64.

In Installer, On Settings, ensure the following are selected (Where is Settings located?)  
Version: the latest version (this documentation was created with version 6.3.0)  
Architecture: x86\_64  
Threads: posix  
Exception: seh  
Build revision: the latest version

Select desired destination folder then click install. (Program Files is default)

From this point forward in the documentation, INSTALLDIR refers to the location you selected above.

**2. Execute the batch script.**

Execute the batch script located at INSTALLDIR\mingw-w64.bat.

**3. Go to the Directory containing your Screamer source files.**

This location is up the user. It will typically be something like MyDocuments/Screamer/release\_4.2.2/src. This allows for multiple release versions of Screamer to be placed in their own directory. A run deck directory is usually placed below the release:

MyDocuments/Screamer/release\_4.2.2/run\_desks. It is useful to separate the run decks from the sources.

Change directory (cd) to the screamer source code you want to compile. Another example of this is below:

```
cd \Users\username\Screamer\release_4.2.2\src
```

**4. Open the Console environment in Windows 10.**

Click on the terminal icon. This will open a window that is a line command emulator (like a usual LINUX environment or the MacOS Terminal).

**5. Compile and Link Screamer in the Terminal Environment. The following lines can be copied and pasted into the line commands separately but you can create a .bat file that can be run as a unit.**

```
del /F /S /Q *.o del /F /S /Q *.a gfortran.exe -c -O04 *.f ar.exe crv  
screamer.a *.o del /F /S /Q *.o ranlib.exe screamer.a g++.exe -c  
cprog.cpp g++.exe -o screamer.exe cprog.o screamer.a  
"INSTALLDIR\mingw64\lib\gcc\x86_64-w64-mingw32\6.3.0\libstdc++.dll.a"  
-lgfortran
```

Note, you may need to adjust the version in the path to libstdc++.dll.a in the above command. In my installation, the gcc version was 6.3.0

**6. Place a copy of the executable in the working directory containing your run decks.**

CD to the run deck directory. You can run Screamer at this point by typing:

```
./screamer64.exe
```

**7. Screamer will respond with a request to enter the file name of the run deck.**

At this point everything is fully functional.