BEGIN INSTRUCTIONS

We’re installing a pre-release version of ENDFtk 1.2.0.

Execute the following commands in a terminal (Linux or MacOS, for Windows use WSL):

git clone <https://github.com/njoy/ENDFtk>

cd ENDFtk

git checkout develop

mkdir build

cd build

cmake -DCMAKE\_BUILD\_TYPE=Release -DENDFtk.tests=OFF ..

make -j8

Once everything is compiled, copy the ENDFtk.cpython-\*.so file and the \_deps/tools-build/tools.cpython-\*.so to the folder where the python notebooks are, or copy them to any other folder and set your PYTHONPATH to include that folder. Once you are ready, execute the first jupyter notebook (ENDFtk-fiesta-0-getting-started) to see if the ENDFtk module loads. If things run OK, you are good to go.

Some troubleshooting:

c++: Permission denied

On MacOS, an error may occur when using make -j8 telling the user that there is no permission to execute the compiler (the error message will contain the full path to the compiler executable). This error is related to an issue with the MacOS system default make installation not allowing parallel compilation (the -j8 part of the make command). Executing make without a parallel option will function, but the user should consider installing a different version of make (e.g. using homebrew) to get around this.

CMake doesn’t detect the right Python version

Taken from the pybind11 FAQ. The CMake-based build system will try to automatically detect the installed version of Python and link against that. When this fails, or when there are multiple versions of Python and it finds the wrong one, delete CMakeCache.txt and then add -DPYTHON\_EXECUTABLE=$(which python) to your CMake configure line. (Replace $(which python) with a path to python if your prefer.)

More troubleshooting can be found on <https://github.com/njoy/ENDFtk>

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