**How to set up OpenMP on MacOS**

Some combination of the below commands allowed me to install OpenMp on MacOS.

brew install llvm

If this doesn’t work, try changing permissions first and then doing the above command :

sudo chown -R $(whoami) /usr/local/bin /usr/local/etc/bash\_completion.d /usr/local/lib/pkgconfig /usr/local/share/aclocal /usr/local/share/doc /usr/local/share/info /usr/local/share/locale /usr/local/share/man/man1 /usr/local/share/man/man3 /usr/local/share/man/man5 /usr/local/share/man/man7 /usr/local/share/man/man8 /usr/local/var/homebrew/linked /usr/local/var/homebrew/locks

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Unsure if the below code is needed:

echo 'export PATH="/usr/local/opt/llvm/bin:$PATH"' >> ~/.bash\_profile

sudo chown -R $USER /usr/local/

brew link --overwrite gcc

export PATH=/install/prefix/bin:$PATH

brew install gcc --without-multilib

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Then this should fail:

g++ hello.cpp -fopenmp

But this should work:

g++-v hello.cpp -fopenmp (where v is the version number of gcc)

To use g++ rather than g++-v, which is what we want, open the bash profile:

nano ~/.bash\_profile

and copy the following:

alias gcc='gcc-v'

alias cc='gcc-v'

alias g++='g++-v'

alias c++='c++-v'

(Again, where v is the version number. For me, v is 8 s.t. g++-v == g++-8)