**MPI installation on a Mac**

This note from Tristan Bithell

February 5, 2013

**OpenMPI Installation Process on OS X Mountain Lion (10.8)**

Xcode and Xcode Command Line Tools may need to be installed beforehand to get the compilers such as gcc. Command Line Tools can be found in the Downloads Preference Pane of Xcode 4 (Free on the app store). If something goes wrong, install command line tools and try again.

1. Download openmpi-1.6.3.tar.gz from [http://www.open-mpi.org/software/ompi/v1.6](https://mail.uncc.edu/OWA/redir.aspx?C=ytaXOMPj_E6DG95qxIMHnuqaPFsV2M8I6GnKqoe9iA4K1nSJvUibbCxK01uS5fiK5K3g_xFiemM.&URL=http%3a%2f%2fwww.open-mpi.org%2fsoftware%2fompi%2fv1.6)/ to the Downloads directory
2. Open the Terminal app
3. Type cd ~/Downloads
4. Type Tar zxvf openmpi-1.6.3.tar.gz   #decompress file
5. Type Cd openmpi-1.6.3
6. Type ./configure --prefix=/usr/local/bin
   1. #This sets the install directory to /usr/local/bin, a common location for user added packages. If you use a different location, replace /usr/local/bin with your desired binaries directory.
7. Type Make all
8. Type Sudo make install
9. Type Echo $PATH
   1. Look for /usr/local/bin in the list of colon separated paths.
   2. If it is not there, type echo 'export PATH=/usr/local/bin:$PATH' >> ~/.profile
10. Verify mpi is working by typing mpirun –v
    1. If you get something along the lines of "no executable was specified…" it has been installed.

(Mpdtrace is not available)