Building GMAT on Snow Leopard

Instructions for using wxWidgets 2.8.10; Deprecate when the Snow Leopard build of wx is released

- 1. Download and unpack wxWidgets 2.8.10
- 2. Make a build folder inside of the wx folder:
 - cd <wxFolder>
 - mkdir shared
 - cd shared
- 3. (These instructions are a modified version of the instructions at wiki.wxwidgets.org/Development:_wxMac#Building_under_10.6_Snow_Leopard The change adds the OpenGL library to the build.)

Build the wx configuration to use the Carbon libraries. This is the crucial step (each bullet is a single line here):

- arch_flags="-arch i386"
- ../configure CFLAGS="\$arch_flags" CXXFLAGS="\$arch_flags" CPPFLAGS="\$arch_flags" LDFLAGS="\$arch_flags"

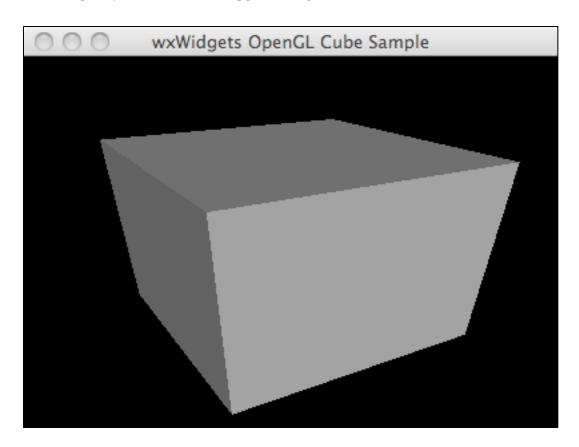
OBJCFLAGS="\$arch_flags" OBJCXXFLAGS="\$arch_flags" -with-opengl Assuming you wave all needed components instlled – i.e. the compilers and linker – you'll get a message like this:

Configured wxWidgets 2.8.10 for `i686-apple-darwin10.2.0'

```
Which GUI toolkit should wxWidgets use?
                                                        mac
Should wxWidgets be compiled into single library?
                                                        no
Should wxWidgets be compiled in debug mode?
                                                        no
Should wxWidgets be linked as a shared library?
                                                        yes
Should wxWidgets be compiled in Unicode mode?
What level of wxWidgets compatibility should be enabled?
                                     wxWidgets 2.4
                                                        no
                                     wxWidgets 2.6
                                                        yes
Which libraries should wxWidgets use?
                                                        builtin
                                     jpeg
                                                        builtin
                                     pnq
                                     regex
                                                        sys
                                     tiff
                                                        builtin
                                     zlib
                                                        sys
                                     odbc
                                                        no
                                     expat
                                                        sys
                                     libmspack
```

- 4. Build wx:
 - make
- 5. Install the wx libraries (if you have admin rights; if you don't have rights, you'll need to do some library management by hand for the testing):
 - sudo make install

- 6. Check the build by building one of the samples. I usually do the cube ample because it tests the OpenGL library along with general wx stuff:
 - cd samples/opengl/cube/
 - make
 - open ./cube to see this app running:



- 7. (From here, I'm giving Eclipse instructions; adapt as needed for your build environment) Open Eclipse, and download or update the GMAT source files.
- 8. Copy the Snow Leopard build files BuildEnv.mk and MakeGmat.eclipse from the build/mac_snowleopard folder into the src folder.
- 9. Clean and build GMAT.
- 10. Plan spacecraft missions. You're done!