Installation manual for KDL under Mac OS X 10.4.11

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KDL is an open source Kinematic and Dynamic Library, which is part of the Open Robot Control Project (orocos).

Website : http://www.orocos.org.kdl

Requirements :

-Mac OS X 10.4.11 (installation with other versions has not been tested)

- a gcc compiler for c++
- -Cmake

-Boost

-Python

-SIP4.7

-KDL

0) **gcc compiler :** if you don't have one, you can get it by downloading the free development tool of Apple : Xcode

1) Install Cmake

go on http://www.cmake.org and download the .dmg for MacOS X

2) Install Boost (http://www.boost.org)

you can follow the indications on http://trac.mapnik.org/wiki/MacInstallation

- install MacPort

- sudo /opt/local/bin/port install boost-jam
- sudo /opt/local/bin/port install boost

3) Python

If python is not already installed on your computer, you need to install it

4) Install SIP 4.7

-download sip on http://riverbankcomputing.com/software/sip/download -in the terminal :

- >> python configure.py
- >> make

>> sudo make install

5) Install KDL

I recommend to install kdl using the svn version (it has more chances to be uptodate)

- in the terminal,

>> svn co http://svn.mech.kuleuven.be/repos/orocos/trunk/kdl

- >> mkdir builddir
- >> cd builddir
- >> ccmake.cc

Complete the following fields: CMAKE_INSTALL_PREFIX : the directory where you want to install kdl type t for advanced mode

CMAKE_CXXFLAGS : -I/"path_to_boost_library"

type c to configure

generate (g)

>> make >> make install

Note: Apparently in MacOS X if the library is in another place that /opt/... we need to do the following so that the makefiles can find the library:

In your home directory, edit the .bash_profile file with DYLD_LIBRARY_PATH=/"path to the kdl library" save, quit the terminal