**Build CIP**

1. Git clone the development branch of CIP
   1. >>> git clone <https://github.com/acil-bwh/ChestImagingPlatform.git> CIP
   2. >>> cd CIP
   3. >>> git checkout develop
   4. >>> cd ..
2. Build Location: /pylon1/ms4s88p/singla
   1. >>> Cd /pylon1/ms4s88p/singla
   2. >>> Mkdir CIPBuild
   3. >>> Cd CIPBuild
3. Configure and generate CIP
   1. >>> Ccmake /home/singla/CIP
   2. Check install path in cmake file
   3. Change install path to install directory
   4. Recommended install directory: /home/singla/CIP\_Install
4. >>> Make
5. >>> Make install
   1. Check /home/singla/CIP\_Install to verify the installation.
6. Next, we will build Cip-Python
   1. >>> Cd /pylon1/ms4s88p/singla/CIPBuild/CIP-build
   2. >>> Make
7. Build location of cip\_python: /pylon1/ms4s88p/singla/CIPBuild/CIP-build/cip\_python
8. To enable python import of the cip\_python library copy the files to local python
   1. Copy
      1. Destination: /home/singla/anaconda2/lib/python2.7/site-packages
      2. Source: /pylon1/ms4s88p/singla/CIPBuild/CIP-build/cip\_python
   2. Copy
      1. Destination: /home/singla/anaconda2/lib/python2.7/site-packages
      2. Source: /pylon1/ms4s88p/singla/CIPBuild/CIP-build/Resources
9. Install cip\_python dependencies
   1. >>> Pip install dicom
   2. >>> Pip install pynrrd
   3. >>> Pip install pydicom
   4. >>> Pip install nipype
10. Build vtk python
11. Configure and generate vtk python
    1. >>> Cd /pylon1/ms4s88p/singla/CIPBuild/VTKv7-build
    2. >>> Ccmake
       1. Check install path in cmake file
       2. Change install path to install directory
       3. Recommended install directory: /home/singla/CIP\_Install
       4. Re configure VTKv7 to build python wrapping
       5. VTK\_WRAP\_PYTHON = On
    3. >>> Make
    4. >>> Make install
       1. Installing: /home/singla/CIP\_Install/bin/vtkpython
    5. To enable python import, modify the bash file and add below lines.
       1. vi /home/singla/.bashrc
       2. export LD\_LIBRARY\_PATH="$HOME/CIP\_Install/lib:$LD\_LIBRARY\_PATH"
       3. export LD\_LIBRARY\_PATH="$HOME/CIP\_Install/lib64:$LD\_LIBRARY\_PATH"
       4. export PYTHONPATH="$HOME/CIP\_Install/lib/python2.7/site-packages:$PYTHONPATH"
       5. export PYTHONPATH="$HOME/CIP\_Install/bin:$PYTHONPATH"

Helpful links for potential error

<http://stackoverflow.com/questions/28761702/getting-error-glintptr-has-not-been-declared-when-building-vtk-on-linux>