1. Download and unzip the LungRegCodeToBuild.gz file into home directory – should contain a folder called groupCode, lungreg, LungData, and ITK
2. Make sure you are running cmake version 3.4 or higher
3. Make the directory lungreg-bld
4. Navigate the lungreg-bld directory
5. Build ITK
   1. Type ccmake ../ITK then press c to configure
   2. Set Build Options – you will have to hit t to toggle all options
      1. change "BUILD\_EXAMPLES" OFF
      2. change "BUILD\_TESTING" OFF
      3. change "CMAKE\_BUILD\_TYPE" Release
      4. change "CMAKE\_CXX\_FLAGS\_RELEASE" -O4
      5. change "CMAKE\_C\_FLAGS\_RELEASE" -O4
      6. change “Module\_ITKReview" ON
   3. press c to configure (you may have to do this a couple times until the generate option becomes available)
   4. press g to generate
   5. run make -j # where # is the number of processors to run the ITK build on
6. Make the ireg-sstvd-vm directory within the lungreg-bld directory
7. Navigate to the ireg-sstvd-vm directory
8. Type ccmake ../../lungreg/src then press c to configure
   1. You will get an error – this is expected. Press e and change the ITK\_DIR to the path to where ITK is installed. If following the structure provided this should be under LungReg/lungreg-bld/
   2. press c to configure (you may have to do this a couple times until the generate option becomes available)
   3. press g to generate
   4. run make -j # where # is the number of processors to run the ITK build on

Directory Structure

* LungReg
  + groupCode
  + ITK
  + LungData
  + lungreg
  + lungreg-bld
    - ireg-sstvd-vm