

Building and testing lcgeo with ILCSoft v01-19-04 and SiD_o3_v02

Download [lcgeo](#) from GitHub (delete any older installation of lcgeo, if the case)

`git clone https://github.com/ILCSoft/lcgeo.git`

Configure ILCSoft v01-19-04 and compile [lcgeo](#)

`cd lcgeo`

`mkdir build`

`cd build`

`source /cvmfs/ilc.desy.de/sw/x86_64_gcc49_sl6/v01-19-04/init_ilcsoft.sh`

`cmake -DCMAKE_CXX_COMPILER=`which g++` -DCMAKE_C_COMPILER=`which gcc` -C $ILCSOFT/ILCSoft.cmake ..`

`make -w -j4 install`

Setup [lcgeo](#)

`cd ..`

`source bin/thislcgeo.sh`

Now, get these out of the way so that the v01-19-04 ddsim is used

`rm -rf bin/ddsim lib/python/DDSim`

which ddsim should display

`/cvmfs/ilc.desy.de/sw/x86_64_gcc49_sl6/v01-19-04/lcgeo/v00-13-04/bin/ddsim`

Create single particle slcio file

`cd example/`

`export PYTHONPATH=${LCIO}/src/python:${ROOTSYS}/lib:$PYTHONPATH`

`python lcio_particle_gun.py`

Run simulation with the [SiD_o3_v02](#) model

`ddsim --compactFile ../SiD/compact/SiD_o3_v02/SiD_o3_v02.xml --inputFiles mcparticles.slcio -N 10 --outputFile simple_lcio.slcio`

or

`ddsim --compactFile lcgeo/SiD/compact/SiD_o2_v03/SiD_o2_v03.xml --runType batch --enableGun --gun.distribution uniform --gun.particle e- --gun.energy 15*GeV --gun.thetaMax="1*mrad" --gun.thetaMin="40*mrad" --numberOfEvents 50 --outputFile myElectrons.slcio`

Check the output

`anajob simple_lcio.slcio`

`dumpevent simple_lcio.slcio 1`