

Status report

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Initial Plans

We wanted an installation of the simulation-reconstruction software as laid out by Jan Strube in his presentation two weeks ago

This would allow us to run a series of tests on modified detector designs in order to analyse their performance in comparison with sidloi3

We were hoping to run it using pre-installed software on a local server at Bristol

Using pre-installed software on local server

cvmfs was supposed to give us an up-to-date installation of all the required software

Unfortunately, it had not been updated in years and was practically unusable

We instead we tried to install this software for ourselves

Local Installation on server

We used the installation instructions laid out here:

<https://confluence.slac.stanford.edu/display/stanitz/From+Zero+to+SiD-Installation>

<https://confluence.slac.stanford.edu/display/stanitz/From+Zero+to+SiD++Running+Sim+Reco>

Useful Information on errors was also found here:

<https://twiki.ppe.gla.ac.uk/bin/view/LinearCollider/ILCSoft>

Local Installation on server (cont.)

Unfortunately, we were unable to make it work as the operating system was SL5 and had outdated compilers etc.

Jan recently suggested the use of a software package called dev toolset that would enable this to be installed. We may look into this installation again

Current Platform

We found a version on AFS that could run the entire sim-reco chain; this could be accessed using LXplus

We have now developed a series of scripts that can run through the whole process from SLIC through to creating a DST and using flavour-tagging

Our main script calls the binaries on AFS directly from python (using the os module)

The ILC Dirac python API, introduced in Jan's talk two weeks ago, offers an improved method for running the chain

This is currently a work in progress but we expect to be up and running in the next few days

The code here should be easier to understand, update and modify compared to our current version

The End