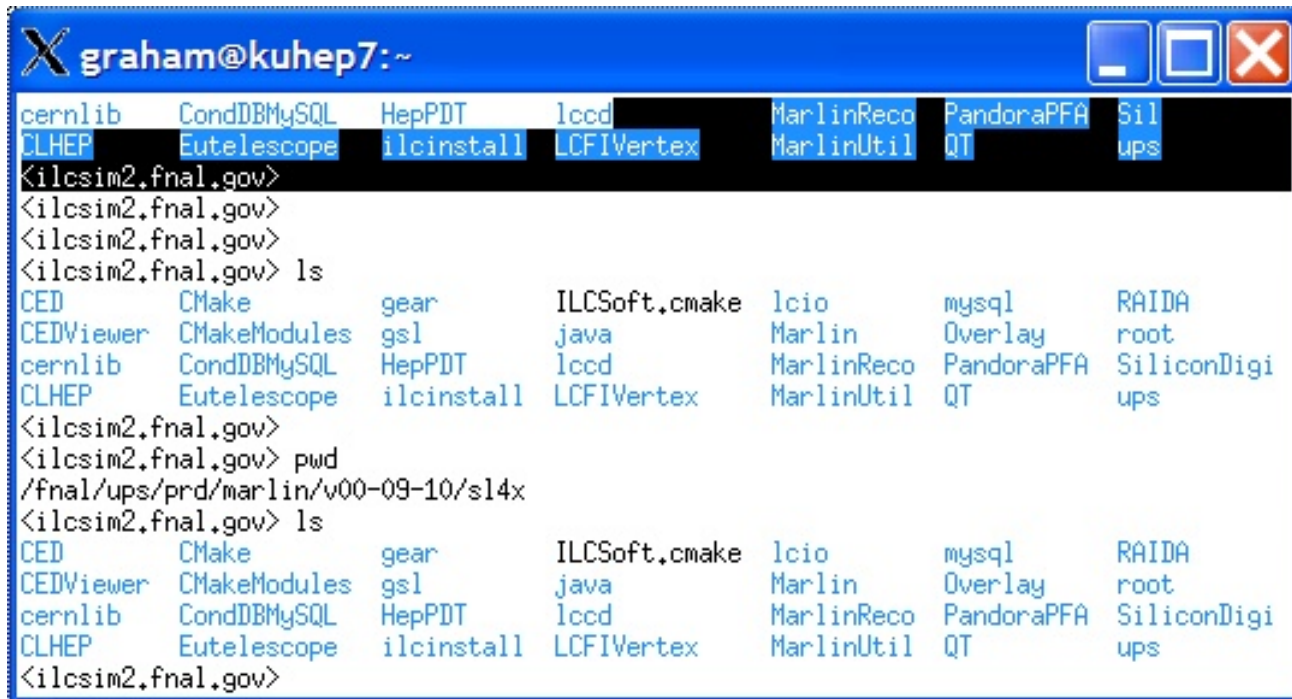# Initial experience with ILD related software (mainly Marlin)

Graham W. Wilson

What's available

- Lynn has things installed as of Tuesday.
  - v00-09-10 built with cmake.

Standard example – works almost out of the box.

- How to get started.
- Follow the instructions (ilcsoft.desy.de) in the README.
- For FNAL:
- setup marlin
- cp –rp $MARLIN/examples/mymarlin .
- cd mymarlin
- mkdir build
- cd build
- cmake –C ../BuildSetup.cmake ..
- make
- make install
- cd ..
- export MARLIN_DLL="$PWD/lib/libmymarlin.so"
- mkdir MyExample
- cd MyExample
- $MARLIN/bin/Marlin –x >example.xml

To do something useful

- Need to build it with support for eg. RAIDA (ROOT implementation of AIDA), GEAR etc.
- So I've turned on the GEAR, LCCD, RAIDA and CLHEP options in my version of the .cmake file (~/mymarlin/BuildSetup_withalloptions.cmake).
- Directories ~graham/mymarlin/Example1
-    and   Example3
- have .xml files that run OK and create one or two histos in a ROOT file with the specified processors.
- - have not had success with the MyRead_Stdhep_Try1 example.
  - Frank Gaede is encouraging me to try using the DESY afs installation as

Couple of Histograms
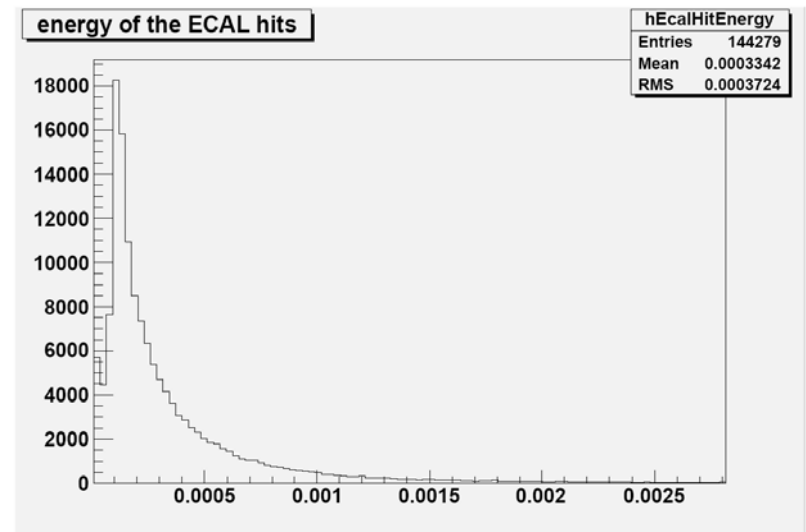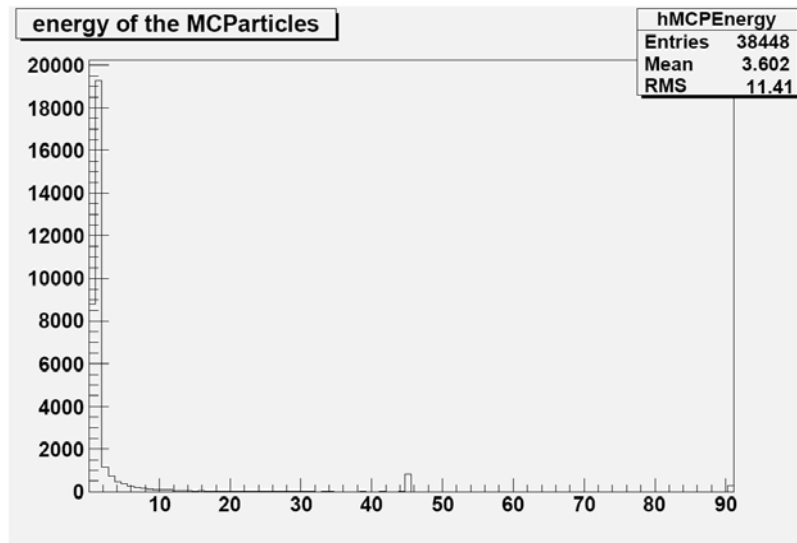
EcalBarrelCollection
(LDC01_05Sc)

What's in the LCIO files ?

- Use the LCIO Command Line tool to view.
- Some dumps are in ~graham/lciodumps for the various data-sets.

What next

- Need to start engaging with eg. PandoraPFA etc.
  - MarlinReco documentation looks like a good starting point.
  - Much of the doc is out of date.
  - Need to make certain that all this is set up reasonably.
- Get event display working.
- Get analysis job working.
- Get reconstruction job working.
- Get simulation job working.

Datasets

- In addition to those mentioned by Marco. V.

- There is also a local copy of the Z -> qq with latest Mokka model LDC01_05Sc from Mark. T. in /ilc/ild/graham/datasets/Mokka.