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Software and Computing Resources

Starting, Computing Group, etc.:

If you start working with CLICdp or LCD it is best if you get a computing account in our computing group (zf).

- If you have not joined any computing group:
  Request to be added to the "zf" computing group here:
  https://resources.web.cern.ch/resources/Manage/Linux/Subscribe.aspx

- If you already have an account part of a computing group
  ◆ and you have to keep it:
  Create a secondary account here:
  https://account.cern.ch/account/Management/NewAccount.aspx
  Once the account has been activated, request to have your new secondary account added to the "zf" computing group by following the "Subscribe" link above. Do not forget to change to your new secondary account.
  ◆ and want to change groups:
  Request to be added to the "zf" computing group. Once your request has been processed change your primary computing group to "zf".

More information on changing computing groups can be found here
https://resources.web.cern.ch/resources/Help/?kbid=067030 and in the cern service-now.

Debugging, Code Quality

- CompilerFlags
- StaticAnalysis: coverity, cppcheck, sas
- MemoryChecker: valgrind
- Debugger: gdb
- RuntimeProfiler: intel vtune

Centrally available software

CLIC simulation and reconstruction software installed on AFS and CVMFS: Software

Tutorials, howto, getting started with or ILD Software

- Getting started
  ◆ C++
  ◆ Java
  ◆ Python
  ◆ ROOT
  ◆ TMVA
  ◆ RooFit
  ◆ PyROOT
  ◆ LCIO
  ◆ pyLCIO
  ◆ Bash
  ◆ Emacs
DD4hep and new reconstruction software

ILD Software
- General Introduction to ILCSoft
- Installation of ILC SOFTWARE on MacOS X
- Introduction to the Mokka Simulation
- Installation of ILC SOFTWARE on Ubuntu
- Introduction to the Marlin Reconstruction Framework
- See also the information about the LCIO data format LCIO

SiD Software
- TWeeder info for CLIC
- Statistics for CLIC Web
- SLIC
- GeomConverter
- Maven
- Java Analysis Studio
- LCSim
- SiD Full Reconstruction Examples
- Software and Computing Resources
- Tutorials
  - TWeeder info for CLIC
  - Creating a Detector from compact.xml
  - Calibrating a detector for SLIC
  - SiD Software
  - How to use LCSim in Eclipse
  - How to write an LCSim Driver
  - How to use your own Driver in LCSim XML
  - How to Reconstruct Tracks
  - How to Submit SiD Simulation and Reconstruction Jobs Using iLC Dirac
  - Example SiD Software Chain
  - Software and Computing Resources

Tools
- Detector Visualization
- Dawn & DawnCut
- Generator File formats and Converters
- Delphes card for fast simulation

Remote Desktop Connection
- Using VNC

Storage Resources: AFS, Castor, EOS, Grid

See: https://twiki.cern.ch/twiki/bin/view/CLIC/DataStorage

GRID and iLC Dirac

- Register to iLC Dirac and the ILC VO
- Using Dirac
- Available (ILD) Software via Dirac

Version Control (Subversion, GIT)

- Version Control Instances for LCD (SVN, GIT)
**Latex**

ON SL6 or CC7 use latex from CVMFS located here: `/cvmfs/sft.cern.ch/lcg/external/texlive/2016`

AFS will be phased out soon:

On SL6, use latex from CERN afs located here: `/afs/cern.ch/sw/XML/TL2016`


**Twiki Access Control**

Editing is allowed for this Twiki group [https://twiki.cern.ch/twiki/bin/view/Main/CLICDetectorStudiesGroup](https://twiki.cern.ch/twiki/bin/view/Main/CLICDetectorStudiesGroup), and for the e-group clicdp-twiki-users, so request to be added to the clicdp-twiki-users e-group. Please send an e-mail to clicdp-twiki-admins@cernNOSPAMPLEASE.ch (remove PLEASENOSPAM from the address) and let us know, otherwise your request will be handled on 8am the next working day.

Note that the clicdp-twiki-users e-group contains the zf computing group, so it is not necessary to be added to the e-group if you are a member of the zf computing group.

For external (lightweight) accounts the e-group clicdp-twiki-users-external exists.

**For CLICdp-twiki admins**

For description of twiki access control see [https://twiki.cern.ch/twiki/bin/view/TWiki/TWikiAccessControl](https://twiki.cern.ch/twiki/bin/view/TWiki/TWikiAccessControl)

The access control for CLIC twiki pages are set here: [https://twiki.cern.ch/twiki/bin/view/CLIC/WebPreferences](https://twiki.cern.ch/twiki/bin/view/CLIC/WebPreferences)

-- AndreSailer - 2014-11-25