

iLCDirac: A DIRAC Extension for Future Lepton Colliders: Calice, FCC, ILC

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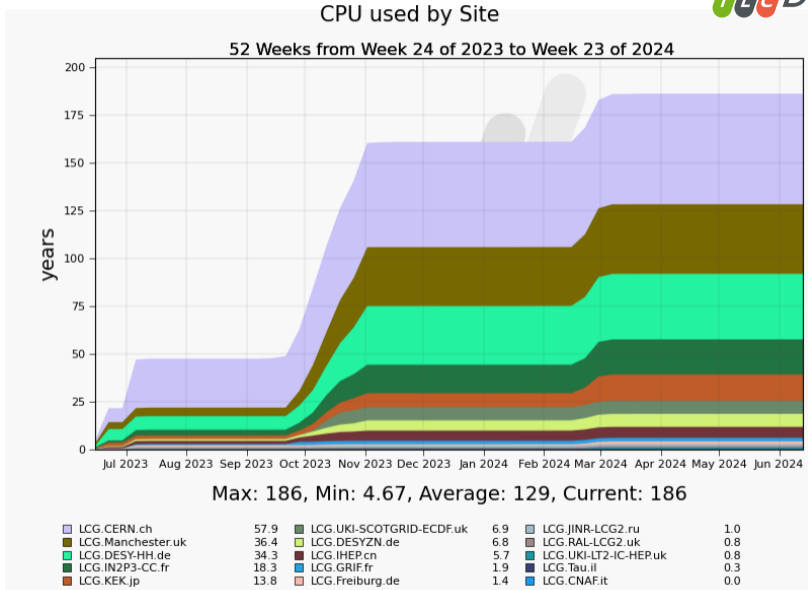


1 DIRAC and iLCDirac Systems

- DIRAC Version: Client: $\geq 8.0.48$ (I live by the edge); Server 8.0.48+X (hot FiXes / Customisations)
 - Made a release yesterday: iLCDirac 35.0.4
- Servers running on RHEL 9, ten servers in production setup
- Using: CS, DMS, FS, RMS, SMS, TS (Multi-VO), WMS, Monitoring/Accounting, Workflow, RSS (passive), WebApp
- Not Using: Production System

- Interfaces/Workflow modules for software, “Overlay” System [[J.Phys.Conf.Ser. 513 \(2014\) 032077](#)]
- “Calibration System” for the Pandora particle flow reconstruction software [[EPJ Web of Conf. 245, 03003 \(2020\)](#)]
- Transformation Plug-ins
- WMS / RMS: some agents solving operational issues
- Source-code: <https://gitlab.cern.ch/CLICdp/iLCDirac/ILCDIRAC/>

Jobs In The Last 12 Months



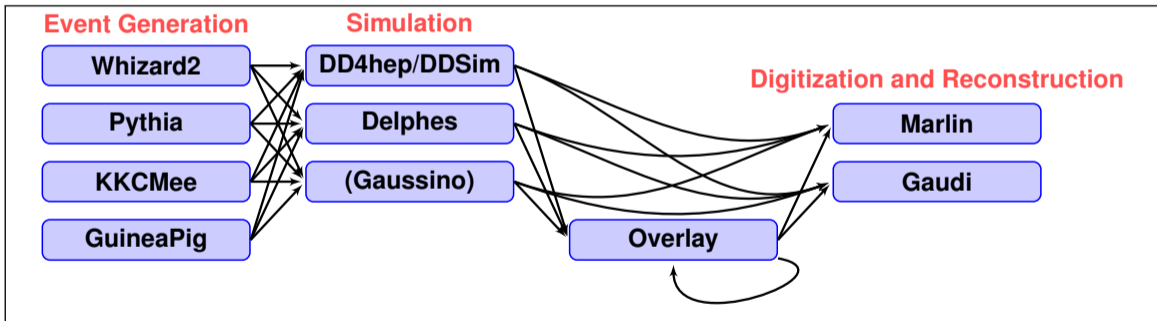
Section 2:



2 Developments in iLCDirac (by L. Valentini)

New Workflow Modules

- Improved GaudiApp (Key4hep)
- Monte Carlo Generators
- Delphes Parameterized Simulation



Based on dirac-clic-make-production

- Convenient config file interface for production managers
- New transformation chains
- Customised output path and meta-data

Extract information from transformations and provide them directly via a JSON file

- Meta-data for example number of events, event type
- Agent efficiently retrieves information only when something changed
- Allows accessing this information without a proxy or querying the FileCatalog

Section 3:



3 Current Issues

- FCC-IAM put into “production” yesterday
 - ▶ Many thanks to C. Haen for telling me about the config and for spotting my mistakes: voms(!)-fcc-auth
 - ▶ CERN-IT for fixing issues I caused, like deleting their admin user
- No IAM's for ILC and Calice VOs at the moment



- How do they work?
- HTCondorCE SSL submission used for some ILC VO CEs, but moot point once VOMS Admin is shut off?

- BDII is going away? Self-fulfilling prophecy? Vicious Circle?
- EGI CRIC? (CRIC is still a thing, right?)

- Require flexibility to chose container image for CS7 based applications
 - ▶ For now I can deal with this on a VO by VO basis

Section 4:



4 Conclusion

Conclusions



- iLCDirac is actively developed
- I expect the use to increase in the next weeks
- The changing grid environment (IAM, Tokens, BDII) a little bit of a challenge to adapt to, but great to have common solution

Thank You for Your Attention!