

# LIM, October 26, 2020

Connected: Andre Sailer (chair), Andrei Kazarov, Ari Kraut, Charles Delort, Dmitri Konstantinov, Edward Moyse, Ewelina Lobodzinska, Gerardo Ganis, Guilherme Amadio, Gunter Folder, Ilias Goulas, Ivan Razumov, Johannes Elmesheuser, Marco Clemencic, Oksana Shadura, Omar Zapata, Pere Mato, Reiner Hauser, Giulio Eulisse, Marcin Nowak

Apologies: Ben C.

Indico: <https://indico.cern.ch/event/951014/>

Next meeting: November 9, 2020

## Status of things

### *Nightlies*

New/upgraded packages:

For FCC: EDM4hep

- iniconfig (pytest requirement), astunparse (tensorflow requirement), itk\_\*(5.1.1, python3.8 requirement)
- jsonmcpp (3.9.1, gcc10 issue with older versions, ROOT-10993)

Fixes/changes:

- fixes for python38 compatibilities
- fix for openloops > 2.0.0 (needed for Whizard2 / FCC)
- fixes for new "Jenkins Pipelines"

Special builds

- devARM - added all tests
- dev3cuda, dev4cuda - added all test and running in GPU nodes

### *Compilers*

- gcc 10.2.0 (centos7)
- clang with newer gcc: [SPI-1706](#)
  - clang 10.0.1 using 9.3.0 GCC's libstdc++ by default (centos7)
  - clang 11.0.0 using 10.2.0 GCC's libstdc++ by default (centos7)
- including lldb ([SPI-1652](#))

Edward: gcc10 builds, do they support c++20 ?

Marco: ROOT doesn't have new enough clang for c++20

Pere: Stack with clang 10 is build with c++17

## Releases

LCG\_98

- ROOT issues affecting LHCb solved

- Blockers for CMS prevented tagging of 6.22.04, expected mid this week
- LCG\_98-patches branch for LCG\_98a
- Ported fixes from master
- LCG\_98python3\_ATLAS\_2
- Rivet, evtgen, thepeg, herwig3 depending on HepMC2
- LCG\_88b
- Sherpa 2.2.10p5, (SPI-1727)

## Defaulting to Python 3

Moving to python3(.8.6) default on November 2?

- Marco: OK for LHCb, also 3.8.6
- Omar: check with SWAN, checking also 3.8.6
- Edward: OK, 3.8.6 also OK

Pere: Any package in LCG has problems with 3.8?

Dmitri: Some packages from wheels were not updating to 3.8, everything should be OK

## Stakeholder feedback

### ***Alice:***

Giulio: NTR

### ***Atlas:***

Edward: For layers, everything is rebuild. Would it help if a list of packages would be provided?

Pere: Yes, that would be very useful

Gerri: We have a list from some time ago

Edward: Fastjet: FastJet.Atlas? What is this?

Ivan: Uses a patch to make random number generator thread local, see [SPI-1571](#)

### ***CMS:***

No connection

### ***LHCb:***

Marco:

- Checking a Gaudi MR , but just missed the tag (FindBoost cmake).
- Will merge cmake-modernisation into master. Will build on top of lcg view without patches
- Gaudi master in the lcg nightlies?
  - Gerri/Andre: Still to be done, will do after cmake-modernisation is merged