

LIM, July 29, 2024

Connected/present: André Sailer (Chair), Andrei Kazarov, Attila Krasznahorkay,
Bertrand Bellenot, Dmitri Konstantinov, Ewelina Lobodzinska, Il-
ias Goulas, Johannes Elmsheuser, Marcin Nowak, Reiner Hauser
Apologies: Ben, Giulio, Marco
Indico: <https://indico.cern.ch/e/1440296>
Next Meeting: August 12, 2024

1 Nightlies

Andre started the LIM with the presentation of the new packages added to the nightly builds. As Swan user requested `fpdf2`, `opencv_python`, `scikit_rf` ([SPI-2610](#)). And LHCb requested `pyeda` ([SPI-2615](#)) and `rapidyaml` ([SPI-2616](#)), which are to be ported to LCG_105 and LCG_106 later on. For Geant4, Dmitri added `cppcheck`. ATLAS remarked that the inclusion of `cppcheck` caused issues in their nightly builds that they managed to work around, and that they will forward the issue to the SPI issue tracker.

In addition to the new packages, a number of updates for existing packages took place. A patch was applied to RELAX and the new version 6.1.2 was included in the stacks ([SPI-2591](#)). The dev4 slot was moved again to the latest patches branch of ROOT : ROOT 6.32-patches ([SPI-2614](#)). On request from a user `fsspec 2024.6.1`, `fsspec_xrootd 0.3.0` were updated ([SPI-2617](#)). The authors of `hepdata_lib` requested the update to the latest version 0.16.0 ([SPI-2620](#)). Due to version requirements `awkward-cpp 35`, `awkward 2.6.6` were updated. Finally, for some generator `sherpa 3.0.0` (needs `libzip`), `madgraph 3.5.4atlas10`, `cepgen 1.2.5patch2` the latest patches were brought into the nightly stacks.

2 Releases and Layers

2.1 LCG_106_ATLAS_3/4 ([SPI-2604](#))

Atlas commented that they did not move to this layer, because there is an issue with Sherpa, and they are most likely going to request a layer with sherpa 2 again.

Dmitri remarked, that if a patch was available that could be applied in the LCG builds instead of waiting for a new sherpa release.

2.2 LCG_106_ATLAS_5/6 ([SPI-2608](#))

2.3 LCG_105c_LHCB_Core/7 ([SPI-2592](#))

SPI is waiting for LHCb to come back from vacation and have a look at these layers.

3 Other Issues

3.1 Update CMake to ≥ 3.29 ([SPI-2618](#))

There were no objections to updating cmake to the requested version.

3.2 Gaudi-master requiring c++20

By the time of the LIM, the issue ([Gaudi#324](#) Gaudi-master is now c++20 only) was answered by Marco, and Gaudi-master in dev3 is now only being build with gcc13 and clang16 (and newer compilers when they come).

3.3 Migration of sft-nightlies to gateways on August 15th

Andre notified the LIM about the migration, and that there will be at least one day without nightlies. [OTG0151081](#)

3.4 AdaptivePerf and a new stack with frame-pointer enabled

Andre reported on the effort of Stefan Roiser et al. working on *AdaptivePerf*, and inquired about interest from the LIM. Interest was shown, and remarked that probably a gcc14fp build would be most useful. Andre further remarked that there might be short presentation by Stefan et al. in the next LIM.

3.5 ALICE migration to ROOT 6.32.xx

Giulio asked to report that ALICE has finally solved all the issues it had to migrate to ROOT 6.32.XX, and that they would be interested in knowing if anyone is experiencing [ROOT#16119](#) (Handling of std::conditional by Cling in ROOT 6.32.02)

None of the persons presented had encountered this issue.

3.6 CentOS7 nightlies are gone from CVMFS

Andre noted that CentOS7 entries should no longer be visible on the nightlies CVMFS and any left-over could be reported so it can be removed.

4 AOB

4.1 ROOT

Bertrand reported that, the geometry for fix for LCHb was backported to 6.30 and 6.32 for LHCb.

4.2 ATLAS

ATLAS noted that it would be nice if the “experiment” tagged issues fixed for 6.32/04. These include a minor cmake issue and a major cppy issue, even though work-arounds exist for all issues.