

LIM, November 6, 2023

Connected/present: André Sailer (Chair), Attila Krasznahorkay, Dmitri Konstantinov, Ewelina Lobodzinska, Ilias Goulas, Johannes Elmsheuser, Nicholas Styles, Reiner Hauser
Apologies: Ben, Bertrand, Giulio, Marco, Pere, Stefan
Indico: <https://indico.cern.ch/event/1343980/>
Next Meeting: November 20, 2023

1 Nightlies

The meeting was started as usual with the presentation of updates in the nightly build stacks. In the dev[3,4]lhcb nightly stacks, tbb was updated to 2021.10.1 ([SPI-2373](#)). To solve issues with building on macOS 13 with clang15 ([SPI-2425](#)), a number of packages was updated, namely: meson 1.2.3, openmpi 4.1.6, cmake 3.27.1. The requested update of pyhf to 0.7.5 ([SPI-2452](#)), also triggered updates for torch 2.1.0, attrs 23.1.0, click 8.1.7, horovod 0.28.1, iminuit 2.24.0, jax 0.4.19, jaxlib 0.4.19, jsonpatch 1.33, jsonschema 4.19.2, matplotlib 3.8.0, ml_dtypes 0.3.1, mplhep 0.3.31, requests 2.31.0, safetensors 0.4.0, scipy 1.11.3, tqdm 4.66.0, PyYAML 6.0.1; and add three packages jsonschema_specifications 2023.7.1, referencing 0.30.0, rpds_py 0.10.6. As requested in [SPI-2456](#) zeromq 4.3.5 was updated to a proper release. For Geant4 CLHEP was updated to 2.4.7.1 ([SPI-2457](#)). In the dev4 branch, Gaudi was updated to v37r1. The compilers where Gaudi is being build for was limited to clang and gcc newer than 9, which excluded ubuntu20. This limitation change was needed since [Gaudi!1509](#). The transition from CentOS 8 to Alma Linux was finished ([SPI-2399](#)).

Attila remarked that the update of CLHEP might necessitate an alignment of the physics constants in Gaudi, but he will confirm or raise a ticket in the Gaudi issue tracker.

2 Releases and Layers

With respect to new layers, the layers LCG_104b_ATLAS_3/4 ([SPI-2453](#)) were released, and at the day of the LIM placed into the ATLAS nightly checks. For LCG_88b more patches for madgraph were deployed ([SPI-2423](#)).

Attila pointed out that matplotlib was missing one required package in the dependency list and during the meeting opened [SPI-2458](#).

3 Other Issues

A brief discussion about the issue of additional system libraries needed in the aarch64 stacks ([SPI-2432](#)), lead to the conclusion that the ticket can be closed.

The SPI team presented the new [Docker -core](#) containers, which could be used in CI jobs for example.

4 AOB

4.1 ROOT

The discussion for the anticipated release of ROOT 6.30/00 and 6.28/10 resulted in the conclusions that the branch ROOT-6.28-patches will be kept in dev4 until an LCG_104c release was made. And only then dev4 will be switched to ROOT 6.30-patches.

4.2 ATLAS

With respect to the triton client discussed during the last LIM, ATLAS stated that they will build the client themselves, but would request gRPC to be added to the stacks, and that a ticket will be opened for this request ([SPI-2459](#)).