

LIM, November 4, 2024

Connected/present: André Sailer (Chair), Dmitri Konstantinov, Ilias Goulas, Marco Clemencic, Reiner Hauser, Johannes Elmsheuser, John Chapman, Bertrand Bellenot, James Catmore, Stefan Ghinescu, Marcin Nowak, Ewelina Lobodzinska, Pere Mato,

Apologies: Guilio

Indico: <https://indico.cern.ch/e/1464991>

Next Meeting: November 18, 2024

1 Nightlies

Andre reported in the updates in the nightly stacks. As a first point ubuntu24 was added to the dev3 and dev4 stacks and aarch64-gcc14 was added to dev4 on Alma Linux 9. Following a discussion about support for jax, two packages (jax_cuda12_pjrt and jax_cuda12_plugin) to properly support jax on cuda were added to the cuda stacks.

As requested in [SPI-2668](#), lhereader 1.0.11 and packages it depends on (pylhe 0.9.0, resample 1.10.1, scikit_hep 2024.9.1, semantic_version 2.10.0, asdf_transform_schemas 0.5.0, asdf 3.5.0, asdf_standard 1.1.1, awscli 2.30.0, hepstats 0.8.1) were added. In view of these changes, also the packages boto3 **1.35.48**, botocore **1.35.48**, s3transfer **0.10.3** were updated.

As requested in [SPI-2618](#) CMake was finally updated to 3.30.5. But it was noted that there is an issue when building some builtins of ROOT, which is caused by a bug in cmake introduced in version 3.28.0. The LCG stacks themselves continue using CMake 3.26 to build ROOT and other packages. But consumers of the builds might run into issues when attempting to build ROOT.

Finally in view of regularly updating important packages coffea **2024.10.0**, Decay-Language **0.18.5**, hepunits **2.3.5**, hist **2.8.0**, histoprint **2.4.0**, iminuit **2.29.0**, jmespath **1.0.1**, particle **0.25.0**, vector **1.5.2** julia **1.11.1**; mypy **1.13.0**; nanobind **2.2.0**; qibo **0.2.13**; ruff **0.7.0**; torch **2.5.1**, torchvision **0.20.1**, sympy **1.13.1**; onnxruntime **0.19.2** were updated.

For the Python 3.12 stack, ATLAS requested that the nose-py3 package would be updated with some priority to unlock further development and testing on their side.

2 Releases and Layers

Andre reported that LCG_106a ([SPI-2607](#)) and LCG_106a_ATLAS_3,4 ([SPI-2665](#)) were finished by the SPI team. ATLAS reported that the LCG_106a_ATLAS_3 layer was in the process of being integrated and all tests so far look good.

3 Other Issues

Andre brought up the desire of the SPI team to stop gcc11 builds (except for cuda) ([SPI-2659](#)). There were no objections raised, and LHCb reported that gcc12 builds could also be stopped for their nightlies.

4 AOB

4.1 LHCb

LHCb reported that a list of generators to use in LHCb_8 was in preparation, but there was still need to check if there are special patches needed. This would be to check for HepMC2 and HepMC3 compatibility.

4.2 ROOT

ROOT was asked when version 6.34 would be released, and responded that the precise date was under discussion this afternoon, and that it was very likely before this Christmas.

4.3 ATLAS

NTR

4.4 NA62

NTR