

LIM, August 26, 2024

Connected/present: André Sailer (Chair), Andrei Kazarov, Ben Couturier, Edward Moyses, Ewelina Lobodzinska, Ilias Goulas, Johannes Elmsheuser, Reiner Hauser
Apologies: Dmitri, Giulio
Indico: <https://indico.cern.ch/e/1449636>
Next Meeting: September 9, 2024

1 Nightlies

In the beginning, Andre introduced the new nightly software stack based on gcc14 where the frame-pointers are not omitted. This platform is marked by `gcc14fp`.

The list of updated packages was started with Boost ([SPI-2635](#)) in dev4. This required a patch for some include statements in Gaudi v38r3 that were patched in the LCG stacks, and the [Gaudi!1618](#) merge request was created by Johannes. It was decided that Boost would only be updated in dev3 once a functioning release of Gaudi was made.

Andre reported on the request by the SWAN team to update kfp 2.4.0, kfp_pipeline_spec 0.3.0 ([SPI-2637](#)). Which also lead to an update of Protobuf **4.25.4** and subsequently grpc **1.62.3**. The latter two packages were updated in all stacks.

ATLAS reported an issue with the updated Protobuf, and Andre remarked that maybe just moving to `find_package(Protobuf REQUIRED Config)` might be sufficient and pointed to this application in hadoop in LCGCmake.

On user request gcovr **7.2** ([SPI-2636](#)) was updated.

Finally a number of python checkers and linters was updated to keep them up-to-date: astroid **3.2.4**, autopep8 **2.3.1**, black **24.8.0**, flake8 **7.1.1**, flake8_bugbear **24.8.19**, pluggy **1.5.0**, pre-commit **3.8.0**, pycodestyle **2.12.1**, pylint **3.2.6**, pytest **8.3.2**

Then Andre reported on the downgrading of Cuda to 12.3 ([SPI-2633](#)) in the devcuda stacks since it is otherwise not compatible with the binary of tensorflow we use. This does *not* affect the ATLAS stack, which includes cuda 12.4 independently of other stacks.

ATLAS also reported that the previously mentioned issue with gcc14 was caused by undefined behaviour, when `-x` vs `x` hit `int_max` / `int_min` issues.

2 Releases and Layers

With respect to the LCG_106a release, Andre reported that the SPI would like to update a few more packages.: zfit, pydantic, correctionlib, coffea ([SPI-2639](#)), jupyterlab_rise ([SPI-2638](#)), and mypy, ruff, and DD4hep. And that it will be based on ROOT 6.32/04. And that SPI still have to make sure everything works. Then a new branch will be created to also include gcc14(fp) builds, which required many changes.

For the ATLAS layers LCG_106_ATLAS_7/8 ([SPI-2626](#)) and LCG_106_ATLAS_9/10 ([SPI-2641](#)) ATLAS stated that they have issues with rivet and sherpa and need to go back to previous versions.

3 Other Issues

4 AOB

4.1 ATLAS

ATLAS reported an increase in “maybe-no-threadsafe” warnings when moving from gcc14.1 to 14.2, and ATLAS requests an update of Doxygen in the stacks ([SPI-2642](#)).

4.2 LHCb

NTR