

LIM, March 23, 2023

Connected/present: André Sailer (Chair), Andrei Kazarov, Attila Krasznahorkay, Ben Couturier, Bertrand Bellenot, Dmitri Konstantinov, Ewelina Lobodzinska, Gerri Ganis, Giulio Eulisse, Ilias Goulas, James Catmore, Johannes Elmsheuser, Marcin Novak, Marco Clemencic, Pere Mato, Reiner Hauser,

Apologies:

Indico:

<https://indico.cern.ch/event/1269577/>

Next Meeting:

April 24, 2023

1 Nightlies

Andre presented the short list of updated packages in the nightly builds. There were updates in the minor versions of Xerces-C 3.2.4 ([SPI-2308](#)) and openmpi 4.1.5.

Regarding the question, whether all CentOS Stream 9 builds could be replaced by alma9 (el9) builds. ATLAS stated that they needed a little bit of time to adapt their cmake configuration. The move over to el9 will thus happen once ATLAS gave their OK.

Andre pointed out the location of the docker containers SPI is using for the builds*, including for aarch64, which are behind the “aarch64” tag instead of “latest”. Regarding, Ben C’s inquiry whether these containers are also available for apptainer, SPI replied that at least some of them are available via unpacked.cern.ch, and more containers could be added there.

It was stated that a clang compiler is still needed for alma9/el9.

2 Releases and Layers

Andre asked if el9 builds for LCG_103 would be necessary. LHCb prefers to not have them, because CS9 builds are treated the same way. ATLAS also has no need for them.

ATLAS stated that the LCG_102_ATLAS_15/16 layers were put into production this morning.

ATLAS stated that the LCG_103_ATLAS_1/2 are not urgent, and rather wait for the clang15 RPMs to be available. Dmitri noted that for the LCG_103_ATLAS_1/2 aarch64 layers some adaptations would be needed first.

* https://gitlab.cern.ch/sft/docker/container_registry

3 Other Issues

The discussion about a release including the recently released 6.28/02 came to the conclusion that this was not urgently needed. Following Bertrand's remark that 6.28/04 would be released this week or next week. The consensus is that a release with 6.28/04 and c++20 support would be the next necessary release. ATLAS have an issue with 6.28/00 ([root-project/root#12406](#)), where it is not clear if this issue is on the ROOT or ATLAS side, but it currently constitutes a blocker for them to move to LCG_103. Bertrand also noted that there are incompatibilities in the c++20 and c++17 standards about constructors with curly braces.

4 AOB

4.1 LHCb

Marco asked that once gcc13 is available the c++20 standard would be used for those builds, and there were no objections. Spack will be discussed between SPI and LHCb after Easter.

4.2 ATLAS

NTR

4.3 ROOT

NTR

4.4 ALICE

Giulio said that ALICE has adopted 6.28/02 in their builds, and they do not see problems that were seen with 6.28/00.

4.5 NA62

N/C