

LIM, April 26, 2021

Connected: Andre Sailer (chair), Dmitri Konstantinov, Ewelina Lobodzinska, Marco Clemencic, Serhan Mete, Ivan Razumov, Johannes Elmsheuser, Oksana Shadura, Pere Mato, Reiner Hauser, Guilherme Amadio, Omar Zapata, Gerardo Ganis, Ilias Goulas, Marcin, Nicolas Lurkin, Gunter Folger, Giulio Eulisse

Apologies:

Indico: <https://indico.cern.ch/event/1032678/>

Next meeting: May 10, 2021

Status of things

Nightlies

- Upgraded packages for the dev[34] and dev[34]python2 development builds
 - simdjson 0.9.2 ([SPI-1863](#)), julia 1.6.0, patchelf 0.12, pcre2 10.36, p7zip 16.02, suitesparse 5.9.0, libosxwind 0.0.6
 - Dropped Gaudi from the python2 builds due to incompatibilities
- dev[34]python39 builds exist. tensorflow and cartopy packages are not yet available for python3.9. See the toolchain file for changed versions here: <https://gitlab.cern.ch/sft/lcgcmake/-/blob/master/cmake/toolchain/heptools-python39.cmake> and the ticket [SPI-1868](#)
- dev[34]Cuda, devARM
 - Updated to ROOT 6.24.00
- contrib:
 - Clang 11.1, clang 12, and gcc10fp with `-enable-frame-pointer` available
- dev4nxcals exists: java 11+28 and nxcals and acc-py packages [SPI-1859](#), [SPI-1871](#)

Omar: Regarding Julia, is the Jupyter Julia Kernel installed or does the user have to install them?

Pere: That kernel has to be installed by the user, because it has to be in a writable location.

Releases

LCG_98python3_ATLAS_11

LCG_88b

LHCB_6

- Marco: Not needed for LCG_99
- Andre: Please comment in the ticket

Johannes: Special HepMC3 build LCG_98_ATLAS_7, we will come back to that later. So far building everything against HepMC2

Preparing for LCG_100 ([SPI-1799](#)):

Marco: Release ASAP

Johannes: Same for ATLAS

Andre: Issue with changed versions for clang 11 build?

Marco: Failing packages not needed for the clang 11 build. But can wait for eventual release.

Andre: So we go ahead

Gerri: Also means the layers for the Experiments?

Marco: need LCG_100 and the RPMs and then LHCB_5

Johannes: Atlas Layers are swept into LCG_100?

Andre: Some ATLAS patches not part of the base installations?

Ivan: Yes, ATLAS patches are only part of ATLAS layers.

Johannes: Then we need the latest ATLAS layer on top of LCG_100.

Andre: LHCB_6 is lower priority than LHCB_5?

Marco: Correct

Andre: Centos8?

Johannes: Yes.

Omar: Swan is using Centos7

Marco: LHCB only Centos7

Other issues:

SPI-1860: VC Tag: Guilherme to nudge Andrea to see if a new tag could be done.

Marco: Understanding that the maintainer does not care about Vc.

Guilherme: We can merge, but cannot make a release. We will see what happens following our request. Regarding ARM: adding support for NEON explicitly? It does compile.

Marco: Not too much effort for ARM at the moment.

Giulio: Alice forked the Vc repo for this reason.

Guilherme: Maybe combine the effort if we fork. Axel Naumann and Andrei Gheata can merge into the repository, so we can maintain the code in the existing github Repo

Giulio: Sounds good, we have some fixes for M1 build system.

Guilherme: I can have a look at the build system changes.

VirtualEnvs:

Omar: It is working in bleeding edge now.

Andre: Excellent. Was not aware we were fixing anything.

Alice: NTR

Atlas: Nothing else

LHCb: Nothing

CMS: No Connection

NA62:

Nicolas: Will try to validate version on LCG_100

SWAN: NTR

BE/NXCals: NTR

AOB:

Many thanks to Ivan for the work in the last 3 years and good luck for the following endeavors.

Ivan: Thank you Gerri, Pere, for the pleasure of working with you