

LIM, December 7, 2020

Connected: Andre Sailer (chair), Dmitri Konstantinov, Gerri Ganis, Charles Delort, Ewelina Lobodzinska, Gunter Folger, Marco Clemencic, Omar Zapata, Ari Kraut, Andrei Kazarov, Oksana Shadura, Edward Moyses, Reiner Hauser, Ivan Razumov, Attila Krasznahorkay, Ben Coutourier, Ilias Goulas,

Apologies:

Indico: <https://indico.cern.ch/event/983030/>

Next meeting: January 11, 2021, via Zoom

Status of things

- Upgraded packages for development builds
 - Gaudi v35r0, podio 00.13, EDM4hep 00.03, LCIO 02.16, lcgenv 1.3.17, acts 3.0.0, hadoop 3.2.1, hadoop_xrootd 1.0.4, ROOT 6.22.06
- New package: SIO (for LCIO, podio)
- Tests (Coral/Cool): Tests were failing because of hard coded path issues and disabled post-install actions. Tests were disabled. [SPI-1750](#).

Nightlies

Coral/Cool tests:

Charles D. why were the tests stopped? Discuss after the meeting.

lcgpackages.web.cern.ch on webEOS

Instabilities and lack of http access seemingly resolved.

Gaudi tests:

Most tests are running, Pere and Marco trying to get everything to run. See [lcgcmake1565](#)

Attila K.: Which versions are build?

Gerri G: In dev3 the master, in dev4 v35

Releases

LCG_99:

With Root 6.22.06 released working on getting the release ready also for Ubuntu20 and Centos8. The Plan is to release before the Christmas break.

Attila K.: Which compiler for CC8?

Dmitri K.: Gcc10 at the moment.

Attila K.: that is OK for centos8 for the moment. But also need gcc8 for centos8 (and of course for cc7)

LCG_88b

Added patches for madgraph ([SPI-1764](#)), and will deploy MCUtils 1.3.5 ([SPI-1768](#)) which will also for other active layers

LCG_97python3_LHCB_4

Layer was deployed ([SPI-1760](#))

LCG_98(?)python3_ATLAS_1 → 3

Tracking needed packages and versions in [SPI-1755](#).

Edward M.: Should be with LCG_98. Should contain HepMC2, would be nice to have a build with HepMC3

LCG_97python3_nxcals

Omar Z: The release is being tested at the moment

Compilers et al.

CentOS8:

Issue with coral/cool: Discuss with Charles D, Dmitri,

Reiner H.: Need new RPM installed on centos8

Andre S.: this new RPM should be part of HepOSLibs?

Reiner H.: Yes, probably

Gerri G.: Once we have a list of required packages known for CentOS8 we Discuss with Andrea Valassi about HepOSLibs for Centos8.

Catboost:

Dmitri: Bootstrapping issue, failing to download some files. Needed by LHCb?

Marco C.: Yes, it is needed as far as understood

Dmitri K.: LHCb can provide the recipe?

Marco C.: Will check.

Ubuntu20:

Attila K.: Default compiler?

Gerri G.: Yes, gcc9.

Newer version of QT5 might be compiling, but Dmitri was trying many versions. Works if xcb is disabled, but needed for x11.

macOS: clang12 WIP

Other issues:

git:

Marco C.: install prefix issue, similar to cmake or ninja. Problem when git is used inside cmake

Pere M.: If we do double releases this shouldn't be a problem.

Marco C.: Is git needed in the releases? Can it just be in contrib? Conda apparently solved this problem for the variable.

Attila K.: In the Atlas builds, we just set up the right git before checkout

Marco C.: The problem is if git is in CMAKE_PREFIX_PATH.

Pere M.: CMAKE_PREFIX_PATH is set by you.

Marco C.: For our builds, we pick up the list of externals from externals.txt (?), and then remove git, ninja, cmake, geant4, gaudi, doxygen (more?). Would like separation between build environment and runtime environment. Work around exists for LHCb builds.

Marco C.: Do we need git in the releases? Why is it there?

Andrei K.: requested by Atlas, operating system package much too old.

Outdated dev builds:

User not noticing that build no longer being updated. Removal of many old builds time consuming for CVMFS publisher.

Nightly builds:

Attila K.: Keep them for longer, use dates.

E.g.: /cvmfs/atlas-nightlies.cern.ch/repo/sw/master_Athena_x86_64-centos7-gcc8-opt/2020-12-06T2101

Gerri G., Pere M.: Was discussed but not yet implemented. Should consider something different from Weekdays.

Flavours and Platforms

Stakeholder feedback

Alice:

Atlas: NTR

CMS:

LHCb: NTR

BE: NTR

AOB:

Oksana S.: This Wednesday Root release planning at 16:00 CET