

LIM, 12 October 2020

Vidyo only meeting following CERN directives to face the sanitary crisis.

Present: A Sailer, A Kraut, C Delort, A Kazarov, D Konstantinov, R Hauser,
G Ganis (chair), I Razumov, M Clemencic, G Folger, P Mato, O Shadura,
O Zapata, B Couturier

Excused: E Moyse

Agenda: <https://indico.cern.ch/event/951008/>

Next meeting: 26 October 2020

Change of LIM chair

G Ganis announced that, following the need for him to shift some of his time to other commitments, starting from 26 October 2020 the LIM will be co-chaired and co-organized by Andre Sailer and Dmitri Konstantinov.

Status of Things

Nightlies

New/upgraded packages

MadGraph5 2.8.1, Gaudi v34r0, DD4hep v01-14-01, Delphes 3.4.3pre05

Fixes / changes

Fixed recipe for DD4hep; fixed issue with Git source for COOL/CORAL source. Following a request from SWAN, R was re-introduced in dev3 (still w/o ROOT R-bindings). Finally, an issue with the tests of Garfield++ has been understood and is being fixed.

New nightlies slot

In view of the change of Python version default from 2 to 3, the slot 'dev4python3' has been activated.

Compilers

Installation of the latest Clang 10.0.1, fully compiled with Gcc 10.1 (see [SPI-1706](#)).

Special builds

- devARM: available again after recovering and reconfiguring a build node; S Roiser is expected to check the content
- Cuda: SPI got assigned two (powerful) OpenStack machines with GPUs; builds are being re-enabled in jenkins

Releases

LCG_98 and related business

Significant progress has been made about the new PyROOT issues affecting LHCb. LHCb confirmed that all the problems seen in Gaudi were addressed; there are still some issues in other parts of the LHCb but it is believed that these can be worked around, and therefore not considered blockers.

ROOT confirmed that they are working at porting all relevant fixes to 6.22-patches (including a patch addressing an [issue with TensorFlow Keras](#)). The new ROOT tag is expected by the end of this week. LCG_98a tag and builds will start right after.

LCG_97a new layers

LHCb layer **LCG_97a_LHCB_4**, with new versions of Herwig and ThePeg, is available and confirmed in use.

Layer **LCG_98apython3_ATLAS_1**, featuring updated versions of MadGraph5 (2.8.0.atlas), Pythia8 (303), Rivet (3.1.2) and Yoda (1.8.3), conservative build of OpenBLAS (for Nehalem), and latest COOL/CORAL tags, will be built as soon LCG_98a is tagged.

AoB

Gaudi and ROOT

The possibility to have Gaudi master in dev3 and to enable the Gaudi test-suite against the ROOT master is being investigated, as a way to better monitor issues and proposed solution for problems as the one we just had with PyROOT.

Change of default Python to version 3

The change of default Python version to v3 is planned for LCG_99 (see [LIM of 1 Sept 2020](#)). To prepare for that, dev builds need to be switched soon:

dev4, dev3 → dev4python2, dev3python2
dev4python3, dev3python3 → dev4, dev3

This will require the clients of these builds, including SWAN, to adapt. It has been agreed that SPI will investigate the practical consequences and choose a (early-in-the week) date when the

change will be effective, so that the relevant parts can adapt (and debug possible issues).

Reminder: SLC6 end-of-life

It has been reminded that SLC6 will come to end-of-life on 30 November 2020. While SPI will continue to provide a minimal set of builds for a while, customers are warmly invited to move away from SLC6 at their earliest convenience.