LIM, 3 Mar 2020

Present: R Hauser, M Clemencic, D Castro, A Kazarov, D Konstantinov, I Razumov, G Ganis (chair), I Goulas, C Delort, E Moyse, P Mato, S Mosciatti, B Hegner
Remote: G Amadio, R Bachmann
Agenda: https://indico.cern.ch/event/892020/
Next meeting: 17 March 2020

Status of LCG_97

The ROOT tag was finally available on Thursday Feb 27th. There may be a first patch release in two weeks. The release candidate LCG_97rc2 was tagged and builds started just after. The reference (or core) build for {CentOS7, gcc8, opt} is available on CernVM-FS and test RPMs since Monday March 2nd.

ROOT

After the meeting we had confirmation of a forthcoming ROOT 6.20/02 tag with:

- Fix for an issue reported by LHCb, pulling in Davix as a hard dependency (see https://github.com/root-project/root/pull/5032)
- Fixes for some TMVA issues
- Fixes for an install issue with PyROOT.

The patch release is expected *by end of next week*.

Layers

Requests for two layers were issued: LHCB_1, FCC_1 .

LHCB_1

The first LHCb specific layer redefines the MC generator list according to the LHCb needs; the reference list, which can be found here, after some iteration with LHCb has been modified to

alpgen	2.1.4
herwig++	2.7.1
hijing	1.383bs.2
lhapdf	6.2.3
photos++	3.56
pythia6	427.2

pythia8	240.lhcb3
rivet	2.7.2b
tauola++	1.1.6b.lhcb
thepeg	1.9.2p1
lhapdf	6.1.6
crmc	1.5.6
yoda	1.7.7
starlight	r300

(see https://gitlab.cern.ch/sft/lcgcmake/blob/LCG_97rc2/cmake/toolchain/heptools-97rc2_LHCB_1.cmake) .
The old lhapdf version is required by ‘thepeg’ version, which is required by ‘herwig++’.

FCC_1

This layer replaces Openloops 2.1.1 with 1.3.1 to allow a complete build of Whizard 2.8.2 .

Steps ahead: revert to multi-meta-RPMs and additional packages

LHCB will be available test 97rc2_LHCB_1 right away. ATLAS online has already started testing with promising results. However, the single RPM does not allow anymore to pickup single packages easily. This is seen as a regression also by LHCb. **It was decided to revert back to the multi-meta-RPM case**.

Target is to tag LCG_97 by end of next week or so. Additional package upgrades foreseen (already in dev4): *xrootd* 4.11.2, *dd4hep* 1.12 (actually 1.12.1, received just after the meeting).

Gaudi builds have been enabled for gcc9 and clang (was only for gcc8 because at the time of introduction gcc9 and clang builds were failing).

After the meeting A Marcinek noted that ROOT5 recipes were removed from the 97rc2. This was a mistake and the removed recipes will be restored in the final release.

All the above changes will be tested in LCG_97rc3 .

Tensorflow 1.14

The available binaries for Tensorflow 1.14 require Python 3.6 and are incompatible with Python 3.7 . See https://sft.its.cern.ch/jira/browse/SPI-1554 . The proper solution would be to rebuild

Tensorflow, but this is not straightforward and attempts so far failed. Decided to continue to pursue this solution for another few days. Otherwise we will consider using use Python 3.6 for the release, at least were relevant. The issue will be rediscussed when more information will be available

AoB

- The package *jsonmcpp* requested by LHCb during the meeting is actually already in the stack.
- Clang: current latest tagged version, 9.0.1, features a bug preventing ROOT to be build. The bug seems to be fixed in the master and presumably in the forthcoming clang 10; nobody depends strictly on clang 9. Agreed to wait for clang 10 and reconsider the situation after.