

LIM, 22 Oct 2019

Present: R Hauser, D Konstantinov, S Mosciatti, A Shchukin, W Lampl,
M Clemencic, I Goulas, R Bachmann, C Delort, J C Villanueva,
G Folger, I Razumov, G Ganis (chair)
Remote: D Castro, S Muzaffar
Agenda: <https://indico.cern.ch/event/858305/>
Next meeting: 19 November 2019
(to allow following CHEP and to recover from it)

Status of things

- LCG_96b
 - Standard Python2/Python3 completed. The cuda10 delayed due to possible license issue (Techlab is checking).
- New packages
 - Started added new packages currently used by FCC software, such as ACTS, PODIO, LCIO
 - These are also of interest for future developments, e.g. TurnKey Software Stack (Key4HEP)
 - Guinea-Pig++ is also considered for addition (used by FCC, CLIC and possibly other MDI-related studies)
 - ATLAS requests
 - Added Hto4I and Prophecy4f
 - Updated mcutils and sherpa
- Build of clang 9 is available under contrib. This has been build with gcc 9.2 and can use either the gcc stdlib or the clang stdlib
 - A test build of ROOT failed with a bug internal to clang and related to assertions; this is under investigation

Layered stack

- Branch has been merged and used smoothly for the nightlies (which now contain only one version for each package, e.g. the generators).
- B Couturier (LHCb) made some tests which are basically ok. He also filed a merge request with a prototype for RPM specs creation available (see [MR-276](#)). There is still a problem with gcc dependency to be addressed (still dependent on gcc83 instead of gcc8); need a full set of new RPMs for that.
- Need to decide how-to proceed; this development will be automatically part of the next release, therefore the release will contain only one version of each package

- Proposal: have an in-depth discussion at next meeting (19/11) to determine the needed layers
 - Experiments should provide the detailed list multi-version generators that are needed

Python

- Current Python3 version is 3.6
 - This is default on CentOS-8
- Python 3.7 had problems on SLC6, which can be probably forgot
- Python 3.8 just released
 - Testing in nightlies
- General agreement to have the latest version
 - At least until we get close to production, when stability requirements will demand to stay conservative
 - We will therefore try to build with 3.8

AoB

- CDash

A server with the latest version 2.6 is being setup by JCV but not yet available due to lack of a proper container image. R Hauser has setup such an image for ATLAS and offered to help.
- HEPOS Libs

A discussion will be organized to address the question of runtime and buildtime setups and also of the EPEL packages