LIM, 8 Oct 2019

Present: R Hauser, J C Villanueva, A Kazarov, P Mato, D Konstantinov, S Mosciatti, B Couturier, M Clemencic, I Goulas, R Bachmann, J Heinz, G Eulisse, G Folger, W Lampl, I Razumov, G Ganis (chair)
Agenda: https://indico.cern.ch/event/854562/
Next meeting: 22 October 2019

Status of LCG_96b

- Python3 clang builds are still on-going (an issue with memory consumption in the build machines need s to be addressed manually); gcc builds are ready on CernVM-FS; the RPM database will be updated after the current builds are over. The cuda10 will follow; the situation with NXCALS will be rediscussed after the forthcoming SWAN workshop.
- The problem with PyCool (SPI-1460) has been fixed by replacing this package only in the current release (it used only by ATLAS and the problem is not considered a blocker). In any case, to avoid the problem from repeating in the future, it has been decided, for Cool and Coral, to have the latest tagged version in dev4 and the master version in dev3. This has been implemented just after this meeting (on Oct 9th).
- The latest FCC build, using LCG_96b and gcc8, has been smoothly for the FCC tutorials last week.

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.

AoB

- DD4HEP
  - Following a request form LHCb, dev3 now contains the master version
- ARM
  - A nightly build from the working branch has been setup on request of LHCb
  - Neither LCHb nor ATLAS need the full stack: they will provide a list of packages really needed to slim down the builds

- CDash need to be updated to cope with new CMake. Not trivial because non backward compatible changes occurred. J C Villanueva following the case.
- New OSs
    - LHCb started playing with CentOS8 (official image; CERN not yet ready).
    - Nobody has yet tried new MacOs Catalina
        - Fuse not supported (at the beginning): big issue for CernVM-FS
- Python 3
    - ATLAS started nightlies builds based on Python 3 after Gaudi has been patched to support it
    - LHCb is building regularly with Python 3
    - SWAN is switching to Python 3 by default
- ATLAS is trying to prepare cvmfs-free containers on HPC using RPMs; containers are huge, but no number and/or details were given. Suggested to try the shrinkwrap utility of CernVM-FS.