Minutes of the LIM Meeting
CERN, 9-February-2016

Present: Marco Clemencic, Ben Couturier, Charles Delort, Gunter Folger, Dmitri Konstantinov, Antonio Limosani, Patricia Mendez Lorenzo, Emil Obreshkov, Graeme Stewart.
Remote: Ivan Razumov, Andrea Valassi.
Notes: Patricia Mendez Lorenzo.

Topics treated during the meeting:

1. LCG new releases

- Explanation of the delay of the LCG_83 release due to a full recreation of the RPM DB.
    - o NOTE: It will be safer if the DB is installed in a non-AFS area and the corresponding machine is backup with the specific backup series provided by IT. This non-AFS access might avoid the problems observed in the past with this DB.

- LCG_81c release for ROOT v6.04.14 performed last week. Still to be tested and tests can run until the end of this summer. No new releases in the pipeline.
    - o Migration of the ATLAS build system to cmake still ongoing and it might concluded in a month.

- In default, all LCG releases are being provided for centOS7 unless the experiment explicitly says that this platform is not needed. This has happened with both LCG_83 and LCG_81x series. If required, we can provide LCG_83 for centOS7 immediately (to be confirmed by LCHb).

2. Builds and compilers

- Take again the task of clang37 builds needed by LHCb.

- Xrootd issue: the latests 4.X series of this package generated a "lib" directory which is causing problems to the ATLAS builds while they are migrating to cmake. Performing the build of this package outside of our common lcgcmake structure, the creation of such a directory is confirmed. Xrootd experts will be contacted to understand the existence of such a directory (and not only lib64).

- gcc5.3 has been installed in AFS for both slc6 and CentOS7. Two distributions are provided: gcc5.3 native and gcc5.3abi4 (compatible with the old ABI). The 5.3 link in AFS is pointing to the later distribution.

<u>3. Views project</u>

Requested by ATLAS, the tool will include a new feature that allows the inclusion of a specific list of high level packages to build the views from. Ivan connected to the meeting will receive the corresponding information through a SPI ticket to be created by Patricia

<u>4. AOB</u>

- A cleanup of the packages provided in releases and nightlies is needed and will be one of the topics of this year. Deprecated packages and old versions are intended to be removed from the lists of the builds. dev2, dev3 and dev4 will be published in lcgsoft for this aim. however, the packages provided in the releases are already published in lcgsoft and can be used to start up this new task. Regular check of the list in this meeting.

- New patch3 of the Geant4 2014 release is ongoing.

- New pytools package will be requested (pythos) as an alternative for multiprocessing. (to be requested via a SPI ticket).

- Management of the packages and compilers dependencies will be discussed with BEN in a separate meeting. For this aim, the calculation of the package hash will also depend on the build options (task ongoing).

- ATLAS has confirmed that the current LCG_81 release can be used to test the implementation of new package versions without going for a full new release. The mentioned release will be used to experiment possible issues with the package dependencies.

- As mentioned during the latest AF meeting, Andrea has successfully build COOL and CORAL in arm64 machines. Thanks to Joshua from ATLAS for his help while building ROOT in these machines.