Minutes of the LIM Meeting
CERN, 28-March–2017

Present: Javier Cervantes, Marco Clemencic, Ben Couturier, Charles Delort, Giulio Eulisse, Gunter Folger, Antonio Limosani, Shahzah Malik Muzaffar, Patricia Mendez, Marcin Nowak, Ivan Razumov, Emil Obreshkov, Martin Storo.
Notes: Patricia Mendez.

Topics treated during the meeting:

1. **Releases**

- The issues observed in LCG_88 have been summarised:
    - Debugging operations in the post-installation script. The script ws not observed the specific inclusion of dependencies taken from the system (curl for slc6)
    - In addition, a patch to the ROOT 6.08.06 was included to support notebook operations
    - On the 22nd of March Marco realised that all LCG_88 centos7 RPMs were missed from the AFS repository:
        - Contacted with the IT, no error messages are reported from the AFS service
        - No manual actions are apparently applied to this area for removal purposes
        - The associated volume is twice bigger that the max quota associated to each individual volume (100GB), therefore AFS experts cannot assume a full regular behaviour of this area.
        - The AFS backup has been used to recover the associated RPMS (214 files were missed). After this recovery, LHCb has confirmed the installation procedures of the RPMS.
        - ACTIONS: In collaboration with Ben, the full AFS RPMs area will be moved this week to EOS. In between the AFS area will be maintained for backup purposes and regularly synchronised with EOS. All clients will be moved to use the EOS instance.
    - post-installation procedures for RPMs installation contained a bug. The code has been corrected in the morning thanks to Ben and the new software has been merged with the master branch of lcgjenkins.

2. **Packages and compilers**

- Explained by Javier, tensorflow has been included in the lcgcmake stack. The build of this package has requested an internal declaration of protobuf, independent of the protobuf version we also provide with the LCG stack. Different versions required by hadhoop and tensor flow of protobuf has forced

this solution.

- scikitlearn shows build issues in Centos7 machines which have HEP_OSlibs installed. This is because HEP_OSlibs provides atlas RPMS which caused problems with the build of the mentioned package. Following Shahzad advices, we have eliminated the ATLAS setup of the build of scikitlearn with the simple order of: ENVIRONMENT ATLAS=None.
    - In addition, HEOP_OSlib has been added to the Centos7 puppet configuration of the SFT build machines to have a coherent setup to all of them.

3. Other topics

- Giulio:
    - Migration of the full ALICE SW to GitHub completed
    - Javier will provide Giulio with the instructions we use in lcgcmake to enable the use of clang.
- Martin:
    - Implementation of pipeline jobs in Jenkins
    - Martin has requested a regular slot to update/check the Jenkins plug-ins of the SFT instance.
- ATLAS: Emil, Marcin, Tony
    - Implementation of the latest xrootd version in the nightly builds (already provided 4.6.0). Although not (yet) in the pipeline an eventual LCG_87 patch release might be required to update some packages versions as xrootd.
- Shahzah: CMS is evaluating a possible upgrade of Jenkins to the version2. Shahzad wanted to have a feedback about the latest version. Several concerns reported by SFT:
    - Jenkins 2 is not backward compatible. Most of our jobs required manual tuning after the update
    - Huge amount of pug-ins requested also an update
    - The service because less reliable due to several java processes running in the machine and basically eating the full CPU. This was happening several times per week. As solution we have enlarged the java connection threshold and now the system has became quite stable.
- LHCb: Marco, Ben
    - Several generators are missed in LCG_88. The list has been provided by Ben and reported to the Genser team
- Genser team: Ivan
    - Some bugs have been found in the splitLCGSummary script. To be solved by Patricia after the meeting
- Gunter: Internal Geant4 release expected by the end of the week.