Minutes of the LIM Meeting
CERN, 9-May–2017

Present: Javier Cervantes, Ben Couturier, Charles Delort, Giulio Eulisse, Patricia Mendez, Marcin Nowak, Emil Obreshkov, Ivan Razumov, Graeme Stewart, Martin Storo.
Notes: Patricia Mendez.

Topics treated during the meeting:

1. **<u>Releases and nightly builds</u>**

- Status of the icc17 builds
    - The LCG stack is being tested with this compiler available in cvmfs. A bug affecting ROOT has been reported and accepted by the developers
        - See notes of the last LIM meeting for further details. The bug still persists.
- We have agreed on the phaseout of Qt4.8.X series support in benefit of Qt5.6.2
    - ATLAS is still working on this migration. Qt4.8.X still supported
    - LHCb has pointed out the module QtWebEngine is missed from Qt5. This module requires further dependencies and packages due to its magnitude. Work still ongoing.
- We have suspended the garbage collector operation in our nightly build machine (sft-nightlies). We hope this approach (that will be performed on a weekly basis from Jenkins) will substantially speed up the publication time of our nightlies
    - Thanks to ATLAS and IT for their help in finding the origin of the problem.

- **IMPLEMENTATION OF THE ARCHITECTURE IN THE BUILDS**
    - Provision of a avx2+fma architecture granted in the PH-SFT jenkins structure
    - We are providing regular builds for avx2+fma for centos7 in opt mode since several days.
    - Feedback from experiments required.

2. **<u>Packages and compilers</u>**

- gcc62 interfaced with binutils has been provided by Javier, We need Marco' feedback.
- gcc7 builds provided in dev4. Still some generators are not working, they are eliminated from the list of generators as it was also done for gcc62
    - Emil has requested the detailed list of generators which have been removed from gcc62 (and therefore gcc7) builds.
        - To be confirmed by LHCb

3. Other topics
- Javier: Still waiting for the RPMS files size checks —> to be provided by LHCb.
    - NOTE: Ben informed us that the corresponding tool is now available. It will be provided to Javier in the day.
    - Working on containers infrastructure for Jenkins slaves.
- ATLAS: Marcin, Emil, Graeme
    - Builds with arm64 basically completed.