LIM, 23 July 2019

Present: J Heinz, I Razumov, R Hauser, G Amadio, G Stewart, D Castro, E Moyse, J Cervantes Villanuea, S Mosciatti, I Goulas, M Clemencic, G Ganis (chair), S Schuchmann, C Delort, B Simmons
Remote: D Konstantinov, S Muzaffar
Agenda: https://indico.cern.ch/event/837195/
Next meeting: 6 August 2019

LCG_96

- Build platforms since last meeting:
  - CentOS7, gcc62
  - Ubuntu 18.04, gcc8
  - Cuda10, CentOS7, gcc7
- Several problems found by LHCb with gcc 8.2
  - AVX512 bug
  - Several issues resulting in problems with rangev3

  These problems triggered the gcc 9 in the nightlies (see below)
- Special build LCG_96_NA62 mostly ok, but
  - Problem with ROOT (location of dictionary/pcm files)
    - Investigated by ROOT, workaround available
  - Still problem on VecGeom because of architecture mismatch causing a 50% failure rate on the grid (see SPI-1391)
- SWAN: test of the nxcals branch are ok, though there is no formal approval form BE yet.
- FCCSW was build successfully taking Gaudi from the release

The plan is still to produce LCG_96a when things stabilize a bit more.

AoB

- Nightlies dev3 were failing since Sunday due to a problem in ROOT master which was fixed on Tuesday. Next run should be fine again.
- ATLAS reported a minor problem related to the absence of curl-dev on some grid build nodes. This is related to the switch to system curl for centos7. The solution is to ensure (via HEPOSLibs) that curl-dev is present.
- Agreed to cleanup old builds in dev3 and dev4 and to remove Windows and ICC from the new LCG scripts.
- There is a new version of VecCore (0.6) which may be considered for inclusion; it fully support Windows and contains improvements to both performance and stability.

- There was a request to add option ‘--enable-jit’ when building PCRE (see SPI-1390).
- ATLAS needs support with Coverity nodes configuration.