
LIM Meeting Minutes - November 20, 2023

Indico: <https://indico.cern.ch/e/1344800>

Attendees: Dmitri Konstantinov (Chair), Andre Sailer, Attila Krasznahorkay, Ewelina Lobodzinska, Ilias Goulas, Johannes Elmsheuser, Nicholas Styles, Reiner Hauser, James Catmore, Marcin, Ben Couturier, Marco Clemencic, Giulio Eulisse, Stefan Ghinescu

Updates in Nightlies/Devs Since the Last Meeting:

1. **SPI-2458:** Matplotlib dependencies have been fixed.
2. **SPI-2373:** The **tbb** library has been updated from version 2020_U2 to 2021.10.0.
3. **SPI-2460:** The **xrootd** library has been updated from version 5.6.0 to 5.6.3.
4. **SPI-2459:** **gRPC 1.48.0** has been added to the dev3/dev4 LCG nightlies, which is needed by the triton-inference-server/client used in **ATLAS**.
5. **No Ticket:** Several software components have been updated:
 - **DD4hep:** Updated from version 01.26 to **01.27**.
 - **Podio:** Updated from version 00.16.07 to **00.17.02**.
 - **EDM4hep:** Updated from version 00.10 to **00.10.1**.

Additional Discussion:

- Attila mentioned that it would be nice to add **gRPC** to the upcoming LCG_104b **ATLAS** layers. Andre will have a look into this suggestion.

Work in Progress:

- **SPI-2467-WIP:** Request for **gcc12** installation for **el9** with **multilib (NA61/SHINE - Antoni Marcinek)**

Release and Layers:

- **SPI-2465-WIP LCG_104b_ATLAS_5/6:**
 - Pythia308
 - Installation of MCFM and also a re-installation of Sherpa (+ MPI-enabled Sherpa) with the additional `—enable-mcfm` flag in both cases.
- **SPI-2463 LCG_104c - ROOT 6.28/10**

Preparation for LCG_105:

- **SPI-2462 LCG_105:**
 - ROOT 6.30/00 - ?
 - Add mac14 builds?
 - Add clang17 builds?
 - Urgency?

Discussion:

- **LCG_105:**
 - There are no plans from **ATLAS** and **LHCb** to move to LCG_105, and there's no urgency for this transition.
 - The decision was made to deploy LCG_105 in the beginning of December, before the Christmas break.
 - **LHCb (Marco)** is not planning to switch the main development branch to LCG_105 before January.
 - From the SPI side, several tickets are planned for LCG_105, including MCFM and Python ML packages requested by Luca Cannali.
 - Regarding ROOT in nightlies, **ATLAS** Attila and Johannes mentioned that even if ROOT 6.30 is released, **ATLAS** prefers to stay on 6.28-patches in nightlies for a couple of weeks to perform further testing.
 - **LHCb** intends to move to 6.30-patches in **LHCb** LCG nightlies. Therefore, it was decided to include 6.30-patches in **LHCb** nightlies for testing before LCG_105.
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Round Table:

- **ATLAS**
 - **James:** We used an old release LCG_88b for our generators, but we won't need it anymore.
 - **Johannes:** We have dev3/dev4 for testing, but ATLAS layers can be ahead or behind of dev builds. Still, we could use dev4 for testing generators.
 - **Attila:** We need to investigate how we can test generators from dev4.
 - **ALICE:** Nothing to report.
 - **LHCb Marco:** We need to discuss what to do with "spack." We talked about it at an architect forum, and we need to decide if we can use "spack" to replace LCGCmake. We want SFT to provide RPMs like before. If SFT goes with spack, we want to add LHCb projects into it. If they choose something else, we're open to trying it, but we won't do everything on our own.
 - It was decided to meet in two weeks (week - December 4th) to discuss the spack option further.
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