**Updates in nightlies/devs since the last meeting**

- **SPI-2206** Pytest-xdist 2.5.0 (with deps - execnet and pytest_forked) added to nightlies and to 102a (LHCb) **The pytest-xdist plugin extends pytest with new test execution modes, the most used being distributing tests across multiple CPUs to speed up test execution**

- **SPI-2195** Platforms gcc12+centos7 and gcc12+centos9 are added into nightlies, gcc10 and gcc10fp are removed from nighlies.

- **SPI-1669** Add include-what-you-use to clang platforms.

- **SPI-2204** Deploy Spark 3.3 to LCG 102 / 102swan (in devs already for sometime)

- **SPI-2200** latest cuda 11.7 for centos7 added to "contrib".

**Bug fixes:**

- **SPI-2203** Kerberos5 library for xrootd was not built for centos9 platforms (for LCG_102), reported by ATLAS
  - check enforced by -DFORCE_ENABLED=ON
  - xrootd upgraded to 5.4.3
  - fixed in nightlies and ready for patch release.

- **SPI-2193** Missing XCB plugin in Qt5 builds.
  - Qt5 recipe is updated
  - libxkbcommon added to HepOSlib and "removed" from LCG stack.

**LCG Releases**

- LCG_102 won't be updated with gcc12 as this requires too many changes.

- Preparation for LCG_102a **SPI-2202**:
  - ROOT 6.26.06 (08 with RadLen/IntLen fix for Geant4Units?)
    - Ben and Marco on vacation for two more weeks.
  - TODO: DD4hep updates
  - SPI-2193: Geant4, QT5 with xcb plugin
  - SPI-2203: xrootd 5.4.3 (with kerberos plugin build for cs9)
- SPI-2204: spark 3.3.0 for swan
- SPI-2195: updates needed for gcc12
- SPI-2198: pytorch_cluster
- SPI-2206: pytest-xdist
- TODO: garfield++ fixed hash

- A request from LHCb for a patch release 101a with the fix on computation of the radiation and nuclear interaction lengths to 6.24
  - https://github.com/root-project/root/issues/11080

- **SPI-2181** LCG_102_ATLAS_2 (HEPMC2) - ATLAS layer.
  - Platforms: x86+gcc11+centos7, aarch64+gcc11+centos7, x86+gcc11+centos9
  - READY

- **SPI-2199** LCG_101_ATLAS_25/26 with Superchic 4.14
  - pending

**items for discussion:**

- **SPI-2191** **OpenSSL in CentOS7.**
  - **Johannes:** as reported by Reiner in SPI-2191 there are now 2 packages (Python cryptography and OT 5.15.2) that require OpenSSL 1.1 in CentOS7, esp. the QT 5.15.2 dependency is a blocker for us to move forward with LCG_102 - what are the best options? Add OpenSSL 1.1 to the LCG_102 stack (with the risk to be stuck with a version in case of security updates) or take it from the openssl11 package in the EPEL repository and ask to add it to HEP_OSlib? It works fine on CentOS9 since that ships compat-openssl 1.1 by default.
  - openssl 1.1 can be installed from epel.
  - openssl 1.1 is installed as openssl11
  - were able to build 3.10 again openssl11
  - what are potential problems in having the LCG stack built with mixture of openssl 1.0 and openssl 1.1?
  - dev3/4python310?

- TensorRT in LCG stack:
  - TensorRT license (https://docs.nvidia.com/deeplearning/tensorrt/sla/)
  - create cvmfs/projects accessible to CERN only?
  - delete header files at post-install step?

- **JIRA**
  - A change in JIRA license agreement for CERN (cost could increase by 10x)
  - SPI has a special lifetime(?) licence

**Roundtable**
Next Meeting: August 29, 2022