LIM

31 March 2020

LCG_97

- Available for
  - Core layer **LCG_97**, python 2.7.16 (cvmfs, RPMs)
    - x86_64-centos7-gcc8-{opt,dbg}, x86_64-centos7-gcc9-{opt,dbg} x86_64-centos7-clang8-{opt,dbg}
  - Core layer **LCG_97python3**, python 3.7.6 (cvmfs, RPMs)
    - x86_64-centos7-gcc8-{opt,dbg}, x86_64-centos7-gcc9-{opt,dbg} x86_64-centos7-clang8-{opt,dbg}, x86_64-mac1015-clang110-opt
  - LHCB layer **LCG_97_LHCB_1**, python 2.7.16 (cvmfs, RPMs)
    - x86_64-centos7-gcc9-{opt,dbg}
  - ATLAS layer **LCG_97_ATLAS_1**, python 2.7.16 (cvmfs, RPMs)
    - x86_64-centos7-gcc8-{opt,dbg}
  - FCC layer **LCG_97_FCC_1**, python 2.7.16 (cvmfs)
    - x86_64-centos7-gcc8-{opt,dbg}

LCG_97: to come

- New layers ? ATLAS (see next)?
- Ubuntu 18 LTS: gcc7 (native), gcc8
- LCG_97cuda: centos7, gcc7, cuda
  - Requires ROOT 6.20/04 (~this week): will use it only in the decicated layer
- Clang 10: centos7, python 2 / python 3
- In perspective:
  - CentOS8
  - Fedora 30 / 31,
  - Ubuntu 20 LTS

LCG_ATLAS_2 ?

- Got a request (see JIRA-1571) for a new combination of generators for LCG_96 and LCG_97
- For LCG_97 this means a new layer with
  - tauola++ 1.1.8   (1.1.6)
  - photos++ 3.64   (3.61)
  - rivet 3.1.0   (3.0.1)
  - evtgen (coming version)   (1.7.0)
- A **new layer** is de facto a **new release** name, so the workflow is different from what we had so far

About RPMS for LCG_97

From these release, one RPM database per version. The <u>repo files</u>

```
[lcgrepo97]
name=LCG Releases
baseurl=https://lcgpackages.web.cern.ch/lcgpackages/lcg/repo/7/LCG_97/

...

[lcg]
name=LCG Releases
baseurl=https://lcgpackages.web.cern.ch/lcgpackages/rpms

...

[lcg-updates]
name=LCG Releases Updates
baseurl=https://lcgpackages.web.cern.ch/lcgpackages/rpms_updates

...

[lcg-contrib]
name=LCG contrib (gcc, clang, binutils, ...)
baseurl=https://lcgpackages.web.cern.ch/lcgpackages/lcg/contrib/7/

...
```

lcg.repo

RPMS directory structure

- For this release still using the one-link-RPM per package technology
- Core RPMs named *${package}-${hash}* are located under

  lcgpackages/lcg/repo/7/LCG_97/Packages
- Link-RPMs under

  lcgpackages/lcg/repo/7/LCG_97/LCG_97

  lcgpackages/lcg/repo/7/LCG_97/LCG_97_ATLAS_1

  lcgpackages/lcg/repo/7/LCG_97/LCG_97_LHCB_1
- RPM database under

  lcgpackages/lcg/repo/7/LCG_97/repodata

Other changes

- To rationalize the RPM repository, we added
  - lcgpackages/lcg/contrib/7/ (centos7 contrib files)
  - lcgpackages/lcg/testing/7/ (centos7 test RPMs)
- Still using the previous repositories, for now
- New dedicated location for .txt files
  - lcgpackages/lcg/meta

Status of things / AoB

- Clang10
  - Available since last week, builds almost fine
  - Should we replace Clang 8 with Clang 10 ? Or add Clang 10 ?
- dev3
  - Issue with finding pyROOT libs in ROOT mastre solved
    - ROOT almost ready support python2/python3 in same build
  - Still issues with CORAL/COOL tests (being investigated)
- CentOS8
  - HEP_OSLibs not yet available
    - Opportunity to revise its content (dedicated LIM?)
    - What are the plans of experiments about CC8
- ...