

News from the ROOT Team

D. Piparo (CERN, EP-SFT) for the ROOT team

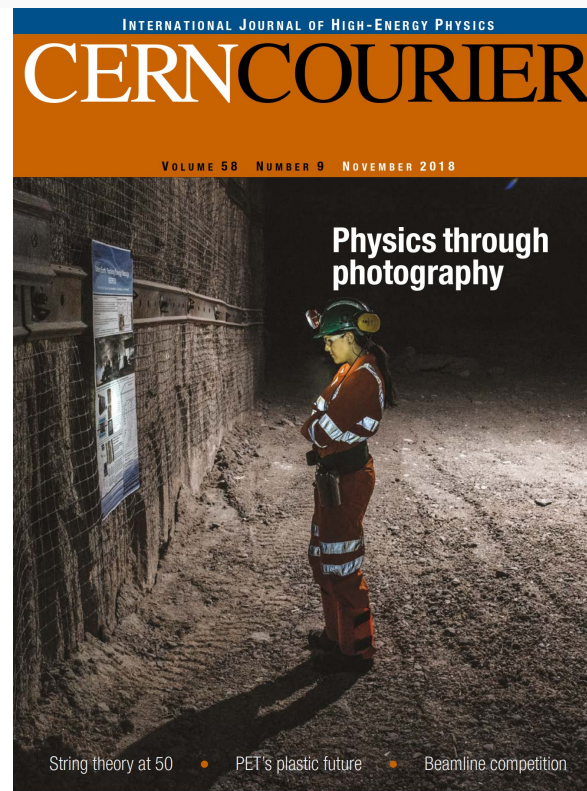
ROOT

Data Analysis Framework

<https://root.cern>



- ▶ An article about the Sarajevo Workshop appeared in [November's CERN Courier](#) (pag. 39)
- ▶ Thanks again for making the Workshop a success!





- ▶ v6.14/08 tagged for LCG
- ▶ v6-16-00-patches branch has no blocker:
 - ROOT-9637, ROOT-9660, ROOT-9668, ROOT-9709 from last meeting were fixed
- ▶ **Release now or spend a few more days in quality:** e.g. invest in fix gcc8 warnings fixes

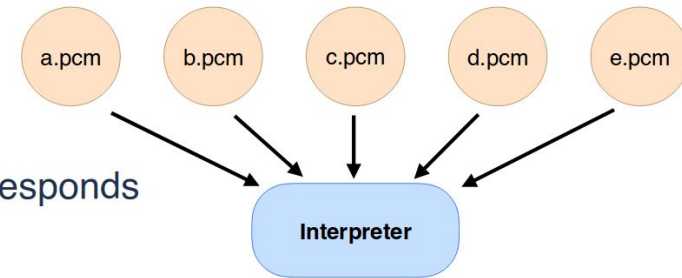
- ▶ v6.16: usage of clang pre compiled modules (PCMs) for storing reflection information as a **technology preview**
- ▶ Very complete status report talk by Yuka [here](#)

C++ Modules in a Nutshell

Modules

- Pre compiled **PCM files** contain header information
- PCMs are **separated**

Each PCM file (a.pcm) corresponds to a library (liba.so)



Yuka Takahashi 19.11.2018

Updates on ROOT C++ modules

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CI System and ROOT distribution channels



Easy to build, easy to obtain

“ROOT shall be easier to obtain, to build and to install”

- ▶ One of the outcomes of the ROOT Workshop



Major Change in the CI

- ▶ Objective: Improve experience of ROOT end users and ease the job of distros maintainers
- ▶ ROOT is now built on vanilla distributions, no external packages provided by CVMFS
 - E.g. fedora{27, 28, 29}, osx10.{12, 13, 14}, ubuntu{14, 18}, win, centos7: native packages e.g. compiler, lz4 ...
 - SLC6, Centos7 builds as part of LCG Releases!
- ▶ Some bugs discovered and fixed: not all of them surfaced in Jira



One Command to Get ROOT



- ▶ Objective: obtain ROOT typing `conda install root`
- ▶ Testing phase, but promising
- ▶ Effort initiated by Chris Burr, ROOT team contributing