ICHEP 2022
BOLOGNA

ICHEP 2022   6
XLI   13 07 2022
International Conference
on High Energy Physics
Bologna (Italy)

Contribution ID: **981**   Type: **Parallel Talk**

Modernisation of the LHCb continuous integration build system

Saturday, 9 July 2022 16:00 (15 minutes)

In the context of the LHCb upgrade for LHC Run 3, the experiment software builds and release infrastructure are being improved. In particular, we present the LHCb nightly builds pipelines which are modernized to provide a faster turnaround of the produced builds. The revamped system organizes tasks of checkouts of the sources, builds and tests of the projects in LHCb software stacks on multiple architectures in a directed acyclic graph of dependencies, with the artifacts of each task cached and reused whenever possible, and distributes the jobs to the workers in the build farm. This work describes the implementation of the new system based on the tools such as Python, Luigi, Celery, CouchDB, RabbitMQ, OpenSearch, S3.

In-person participation

No

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Session Classification: Computing and Data handling

Track Classification: Computing and Data handling