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Commissioning CERN Tier-0 reconstruction workloads on Piz Daint at CSCS

Wednesday 10 October 2018 16:30 (25 minutes)

Predictions for requirements for the LHC computing for Run 3 and for Run 4 (HL_LHC) over the course of the next 10 years show a considerable gap between required and available resources, assuming budgets will globally remain flat at best. This will require some radical changes to the computing models for the data processing of the LHC experiments. The use of large scale general purpose computational resources at HPC centres worldwide is expected to increase substantially the cost-efficiency of the processing. We report on the technical challenges and solution adopted to commission the reconstruction of RAW data from the LHC experiments on Piz Daint at CSCS. This workload is currently executed exclusively at dedicated clusters at the Tier-0 in CERN.

Desired length

20

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