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Upgrade of the CMS Event Builder

Monday, May 21, 2012 5:00 PM (25 minutes)

The Data Acquisition (DAQ) system of the Compact Muon Solenoid (CMS) experiment at CERN assembles events at a rate of 100 kHz, transporting event data at an aggregate throughput of 100 GB/s. By the time the LHC restarts after the 2013/14 shut-down, the current compute nodes and networking infrastructure will have reached the end of their lifetime. We are presenting design studies for an upgrade of the CMS event builder based on advanced networking technologies such as 10 Gb/s Ethernet. We report on tests and performance measurements with small-scale test setups.

Student? Enter 'yes'. See http://goo.gl/MVv53

no

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