

Physics and Data Quality Monitoring at CMS

Wednesday 15 February 2006 15:00 (20 minutes)

The Physics and Data Quality Monitoring framework (DQM) aims at providing a homogeneous monitoring environment across various applications related to data taking at the CMS experiment. Initially developed as a monitoring application for the 1000 dual-CPU box (High-Level) Trigger Farm, it quickly expanded its scope to accommodate different groups across the experiment. The DQM organizes the information received by a number of monitoring producers and redirects it to monitoring consuming clients according to their subscription requests, in the classic publish-subscribe paradigm. Special care has been given to the modularity and stability of the system with the clear separation of the production of the monitoring information from the distribution and processing. We will describe the features of the DQM system and report on first measurements of its performance on a small subfarm prototype.

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Session Classification: Online Computing

Track Classification: Online Computing