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CMS data quality monitoring web service

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A central component of the data quality monitoring system of the CMS experiment at the Large Hadron Collider is a web site for browsing data quality histograms. The production servers in data taking provide access to several hundred thousand histograms per run, both live in online as well as for up to several terabytes of archived histograms for the online data taking, Tier-0 prompt reconstruction, prompt calibration and analysis activities, for re-reconstruction at Tier-1s and for release validation. At the present usage level the servers currently handle in total around a million authenticated HTTP requests per day. We describe the main features and components of the system, our implementation for web-based interactive rendering, and the server design. We give an overview of the deployment and maintenance procedures. We discuss the main technical challenges and our solutions to them, with emphasis on functionality, long-term robustness and performance.

Summary

Presentation type (oral | poster)

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