Contribution ID: **16**   Type: **not specified**

Compute node benchmarks for Compact Muon Solenoid workflows

Tuesday 14 October 2014 14:30 (30 minutes)

Hardware benchmarks are often relative to the target application. In CMS sites, new technologies, mostly processors, need to be evaluated on an yearly basis. A framework was developed at the Caltech CMS Tier-2 to benchmark compute nodes with one of the most CPU-intensive CMS workflows - The Tier-0 Reconstruction.

The benchmark is a CMS job that reports the results to a central database based on CPU model and makes them available to real-time monitoring web interfaces. The goal is to provide to the collaboration a reference for CPU performance, which can also be used in automated systems through an API. The jobs run in parallel to normal Grid activity and could have their submission and reporting automated.

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Session Classification: Computing and Batch Systems

Track Classification: Computing & Batch Services