



Contribution ID: 176

Type: Poster

Experience in testing the gLite workload management system and the CREAM computing element

Describe the scientific/technical community and the scientific/technical activity using (planning to use) the EGEE infrastructure. A high-level description is needed (neither a detailed specialist report nor a list of references).

The LHC experiments will study the physics of p-p interactions at a center-of-mass energy of 14 TeV using the LHC accelerator at CERN. The primary purpose of their research is the discovery of the Higgs boson and of new physics at the TeV scale. They use the EGEE infrastructure to perform their offline computing activities (data reconstruction and analysis, Monte Carlo simulation, calibration and alignment, data replication).

Report on the experience (or the proposed activity). It would be very important to mention key services which are essential for the success of your activity on the EGEE infrastructure.

This report describes the experience of the EIS team in testing the gLite Workload Management System and the CREAM computing element. In fact, this experience has led to a significant improvement of the WMS performance and reliability due to a close interaction with the gLite developers. Tests aimed at determining if the WMS and CREAM met the acceptance criteria defined by WLCG were successfully performed, demonstrating a level of performance compatible to the LHC experiments requirements.

Describe the added value of the Grid for the scientific/technical activity you (plan to) do on the Grid. This should include the scale of the activity and of the potential user community and the relevance for other scientific or business applications

The LHC experiments are undoubtedly the most demanding communities for the EGEE infrastructure. They have thousands of collaborators who expect to run their physics analyses on the data that will be collected starting from 2008. It is expected that each experiment will need to run hundreds of thousands of jobs per day. The Grid is expected to fulfill the experiment needs in terms of available resources and middleware.

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Track Classification: Demo and Poster session