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## **Grid Engine, a modern open source batch system now fully supported in gLite**

**Project(s) or EGEE activity presenting the demo or poster (project or activity names only)**

SA1,SA3

**Special requirements other than the set up mentioned in the CfA text.**

None.

### **Abstract**

Grid Engine (GE) is a modern open source batch system which is now fully supported in gLite. The GE integration process has included several steps that go from development of the JobManager, the Information Provider, the APEL accounting sensor and the Yaim configuration modules to the inclusion in ETICS. During the certification process several stress tests were done to check GE behaviour in a large cluster. GE batch system offers some important features like the possibility to configure a shadow master host for failover purposes, support for up to 10.000 nodes per master server, application level checkpointing, array jobs, DRMAA, fully integrated MPI support, a complete administration GUI, a web-based accounting tool (ARCo) and last but not least a very complete documentation. At present, we are working in the integration of GE inside CREAM-CE and improvement of MPI support, in collaboration with the EGEE MPI WG.

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