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gqsub: Grid computing at the Mesoscopic scale

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

Scotgrid
NA4 regional coordination

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

None

Abstract

This poster describes an innovative approach to increase adoption of Grid sytems - building an interface to Grid systems that conforms to the local interface that users are used to.

Nearly all cluster batch systems provide interfaces that conform to the IEEE 1003.1 (Posix) standard: qsub and friends. Working under the name gqsub, this work implements the key features of qsub that are supported by the gLite WMS, including mapping of array jobs onto parametric jobs. A qstat style interface is provided, to facilitate monitoring of jobs.

Matching the expectations of the user, this work reduces the barrier to adoption for those users who are experience in with cluster computing - a significant number of e-science researchers.

Early trials with users show that this style of interface holds promise for bridging the cognitive gap between local and remote jobs. Detailed trials are underway and will be reported in the poster.

Authors: Prof. DOYLE, Anthony (University of Glasgow);   Dr PURDIE, Stuart (University of Glasgow-Unknown-Unknown)

Presenter: Dr PURDIE, Stuart (University of Glasgow-Unknown-Unknown)