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A Grid Job Monitoring System

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This paper presents a web based Job Monitoring framework for individual Grid sites that allows users to follow in detail their jobs in quasi-real time. The framework consists of several independent components, (a) a set of sensors that run on the site CE and worker nodes and update a database, (b) a simple yet extensible web services framework and (c) an Ajax powered web interface having a look-and-feel and control similar to a desktop application. The monitoring framework supports LSF, Condor and PBS-like batch systems.

This is the first such monitoring system where an X509 authenticated web interface can be seamlessly accessed by both end-users and site administrators. While a site administrator has access to all the possible information, a user can only view the jobs for the Virtual Organizations (VO) he/she is a part of.

The monitoring framework design supports several possible deployment scenarios. For a site running a supported batch system, the system may be deployed as a whole, or existing site sensors can be adapted and reused with our web services components. A site may even prefer to build the web server independently and choose to use only the Ajax powered web interface.

Finally, the system is being used to monitor a glideinWMS instance. This broadens its scope significantly, allowing it to monitor jobs over multiple sites.

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