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Job Monitoring in Interactive Grid Analysis Environment

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Grid is emerging as a great computational resource but its dynamic behaviour makes the Grid environment unpredictable. System failure or network failure can occur or the system performance can degrade. So once the job has been submitted monitoring becomes very essential for user to ensure that the job is completed in an efficient way. In current environments once user submits a job he loses direct control over the job, system behaves like a batch system, user submits the job and gets the result back. Only information a user can obtain about a job is whether it is scheduled, running, cancelled or finished. This information is enough from the Grid management point of view but not from the point of view of a user. User wants interactive environment in which he can check the progress of the job, obtain intermediate results, terminate the job based on the progress of job or intermediate results, steer the job other nodes to achieve better performance and check the resources consumed by the job. So a mechanism is needed that can provide user with secure access to information about different attributes of a job. In this paper we describe a monitoring service, a java based web service that will provide secure access to different attributes of a job once a job has been submitted to Interactive Grid Analysis Environment.

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