Contribution ID: **276**   Type: **poster**

Managing Workflows with ShReek

Wednesday, 15 February 2006 09:00 (20 minutes)

The Shahkar Runtime Execution Environment Kit (ShREEK) is a threaded workflow execution tool designed to run and intelligently manage arbitrary task workflows within a batch job. The Kit consists of three main components, an executor that runs tasks, a control point system to allow reordering of the workflow during execution and a thread based pluggable monitoring framework that offers both event driven and periodic monitoring. Developed specifically to address the challenges of running High Energy Physics processing jobs in complex workflow arrangements, with highly varied monitoring needs, the ShREEK toolkit is in use at multiple HEP experiments, and can be adapted for a variety of other uses such as wrapping batch jobs to provide detailed interactive monitoring for administrators and users alike. In this presentation we will discuss the architecture of the ShReek system and the experience using it in several experiment workflows.

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Session Classification: Poster

Track Classification: Distributed Event production and processing