

# JobMon: A Secure, Scalable, Interactive Grid Job Monitor

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We present the architecture and implementation of a bi-directional system for monitoring long-running jobs on large computational clusters. JobMon comprises an asynchronous intra-cluster communication server and a Clarens web service on a head node, coupled with a job wrapper for each monitored job to provide monitoring information both periodically and upon request. The Clarens web service provides authentication, encryption and access control for any external interaction with individual job wrappers.

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