Fermilab

Title: Grid Job and Information Management for the FNAL Run II Experiments.

Abstract: We present the system design of the SAMGrid's Jobs and Information Management (JIM). The Grid job broker uses the Condor-G technology and is interfaced with the data handling system such that grid job placement is based on the amount of the job's input data cached at the participating sites. The Condor-G system is being extended to accommodate this and other features desired by JIM for the Run II experiments. The global monitoring is based on the Grid Monitoring Architecture, it is fully distributed and allows navigation into the individual site's local monitoring systems to retrieve further details about the local jobs and particular site conditions. Our system is interfaced with experiment-specific local execution environments such as D0 Monte-Carlo and CDF Cluster Analysis Facility with grid functions and local functions clearly delineated.

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