Contribution ID: **263**   Type: **oral presentation**

The ATLAS Strategy for Distributed Analysis on several Grid Infrastructures

Tuesday, February 14, 2006 4:00 PM (20 minutes)

The ATLAS strategy follows a service oriented approach to provide Distributed Analysis capabilities to its users. Based on initial experiences with an Analysis service, the ATLAS production system has been evolved to support analysis jobs. As the ATLAS production system is based on several grid flavours (LCG, OSG and Nordugrid), analysis jobs will be supported by specific executors on the different infrastructures (Lexor, CondorG, Panda and Dulcinea). First implementations of some of these executors in the new schema are currently under test, in particular also in the Analysis scenario. While submitting jobs to the overall system will provide seamless access to all ATLAS resources, we also support user analysis by submitting directly to the separate grid infrastructures (Panda at OSG, direct submission to LCG and Nordugrid.) A common job definition system is currently under development that will be supported by all systems. Finally a common user interface project, GANGA, will provide support for the various submission options and will provide a consistent user experience. We will review the status of the different subprojects and report on initial user experiences.

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Session Classification: Distributed Data Analysis

Track Classification: Distributed Data Analysis