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Cross Experiment Workflow Management: The Runjob Project

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Building on several years of success with the MCRunjob projects at DZero and CMS, the Fermilab sponsored joint Runjob project aims to provide a Workflow description language common to three experiments: DZero, CMS and CDF. This project will encapsulate the remote processing experiences of the three experiments in an extensible software architecture using web services as a communication medium. The core of the Runjob project will be the Shahkar software packages that provide services for describing jobs and targeting them at different execution environments. A common interface to multiple storage and compute grid elements will be provided, allowing the three experiments to share hardware resources in a transparent manner. Several tools provided by Shahkar are discussed including FileMetaBrokers, which provide a uniform way to handle files and metadata over a distributed cluster, the ShREEK runtime execution environment that allows executable jobs to provide a real time monitoring and control interface to any system, the scriptObject generic task encapsulation objects and XMLProcessor object persistency tool.

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