

An Approach of Modeling ROOT Processes in Grid

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ROOT is an object-oriented framework, written in C++, which provides functionalities for data analysis and data visualization. It is a platform independent framework and run equally well on different operating systems as Windows or Linux. The development of ROOT services allow to the end user to use ROOT functionality without installing the environment and without knowing its specific. g-Lite is a grid middleware for access to Grid resources. It provides services for access to data storage and computational power. Data manipulation processing in Grid environment consists of the following generalized steps: data preparation, data storage, data computations and data analysis and visualization. These tasks can be presented as a process of sequential tasks, part of which uses Grid Services and the other, services provided by outside systems. Vital part of modeling of business processes is presence of service repository with registered services. The intention of current paper is to present an approach for modeling of business processes in Grid middleware based on example usage of ROOT and g-Lite services.