

An Approach to Grid Interoperability using Ganga

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We present our work on Grid interoperability using Ganga that was developed by CERN. Ganga is an easy-to-use frontend for job definition and management, implemented in Python. Ganga allows switching between testing on a local batch system and large-scale processing on Grid resource such as LSF, PBS, Condor, SGE and LCG. We developed a Gridway backend module that provide users with access to globus-based grid resources as well. We have also developed an inter-grid backend that allows users to submit jobs that have access to both glite-based resources and globus-based resources. In order to demonstrate the practicalness of the new inter-grid backend plugin module, we have integrated the autodock application used by WISDOM project into Ganga as a new built-in application plugin for Ganga

