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GridLab - A Grid Application Toolkit and Testbed

GIS

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Abstract: This document describes briefly the prototype GIS setup for the GridLab project.



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1 GIS prototype

The information service for the first GridLab testbed version uses the LDAP based information infrastructure and stores information about sites and resources (hostname, number of CPUs, available memory, current state etc.). The local Grid Information Index Service (GIIS) server was set up and run since April 2002 at the Grid Testbed Operation Center (GTOC) in Brno. It uses the Globus MDS-2.1 together with its basic schema, that will potentially be extended according to the specification provided by the Work Package 10 (Information Services). Information provided by the individual sites could be accessed through the Grid Index Information Service (GIIS). The address of the primary server is `mds.gridlab.org` and all the testbed sites are required to subscribe to the GIIS. It is immediately usable for information retrieval and serves as the “zero” version of the GridLab information service.

While the actual Globus/MDS-2 schema is used, not all the information “providers” (i.e., the scripts) are already available or are correct. Patches and extensions are gradually provided in order to have up to date and correct information about all the nodes.

More information can be found in the *Testbed Policy* paper[1].

References

- [1] L. Matyska, M. Ruda: *Testbed Policy*. GridLab project Deliverable 5.1. July 2002 (<http://www.gridlab.org/Internal/Documents/D5.1.pdf>).