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GridLab - A Grid Application Toolkit and Testbed

## Production portals

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**Abstract:** This document provides basic information about and links to the production portals of the GridLab project.



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## 1 Portals

The GridSphere framework developed alongside with the GridLab project has been used to power the major GridLab portals in their production version. All the portals are based on the GridSphere framework version 2.0.2, which is considered a stable release.

Three different types of portal are currently used within the GridLab project: *the User portal*, *the Application portal*, and *the Administrative portal*. Physically, the User and Administrative portals share the same entry URL and the machine they run on. The Application portals are tailored towards a specific users' community, currently two distinct portals serving the same community are maintained within the GridLab project.

### 1.1 User portal

The User portal is currently accessible at <https://portal.gridlab.org>. It is maintained by Grid Operatin Centre team, as part of the WP-5 (testbed workpackage) activities. The portal contains GridSphere framework as a portlet container, and GridPortlets developed by WP-4 (portals) as a user interface to grid services on the testbed.

The portal offers following basic functions and services:

- retrieving user credentials from MyProxy
- listing and viewing resources available on the testbed
- submitting jobs through Globus GRAM or GridLab GRMS service
- observing status of submitted jobs
- retrieving output of finished jobs
- displaying where a job is run on a world map
- managing physical files on portal and testbed machines
- managing logical files in GridLab Data Manager

### 1.2 Application portal

The Application portal is currently accessible at <https://portal.aei.mpg.de>. It was developed to support the numerical relativity group at Max Planck Institute for Gravitational Physics in Germany and it is maintained by WP-4 (portals). It contains Cactus Portlets as a user interface to the Cactus application.

Another application portal using the same GridSphere, GridPortlets and Cactus Portlets code is run independently at Center for Computation and Technology at Louisiana State University (LSU-CCT). It is accessible at <http://portal.cct.lsu.edu>.

### 1.3 Administrative portal

The Administrative portal is a part of the main GridLab portal, accessible at <https://portal.gridlab.org>. This portal provides access to the state of the whole GridLab testbed and its individual nodes and services. It contains portlets for monitoring testbed status and for observing grid testing worm migration. Being part of the <https://portal.gridlab.org>, it is maintained by the WP-5 group.

Static documentation for testbed is accessible at <http://www.gridlab.org/WorkPackages/wp-5/testbed.html>.

### 1.4 Future use

It is expected that all portals will be maintained even after the GridLab project official closure. The developed portlets will be used to support specific user communities, the user and administrative parts are currently used as templates for the *META*Centre portal (<http://meta.cesnet.cz>), the major web entry point to the Czech National Grid.