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Grid2Win : The Grid for Microsoft Windows

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Nowadays many research domains are capitalizing on grid computing, however, to be able to properly use the current Grid infrastructures, usually it is required that user has advanced skills on Unix based systems. Even if the Linux distributions are in full growth, many users still prefer to use Microsoft Windows. The Grid2Win project aims at “opening” the grid services to Microsoft applications and integrating MS Windows clusters into existing Grid e-Infrastructures.

Impact

The GUI is really easy to use as any windows based application can be. There are others cross platform solutions such as GANGA, but they are only to provide a User interface. Grid2Win is native gLite implementation rebuild under windows. There are no projects other then Grid2win supporting a gLite windows farm.

URL for further information

Home page: <http://grid2win.forge.eu-eela.eu/new/index.php>

Conclusions and Future Work

A new local farm supporting Microsoft Computer Cluster Server is under design. The GUI is evolving on a daily base.

Keywords

Grid, Microsoft Windows, gLite, Graphical User Interface, porting, command line interface

Justification for delivering demo and technical requirements (ONLY for demonstrations)

In order to enjoy the very userfriendly graphical user interface I think that a demo is necessary. In particular a demo will consist of: 1) grid2win download; 2) installation; 3) first execution; 4) Grid Environment setting; 5) Grid services (data management, job submission, Information system) usage.

Detailed analysis

Grid2Win is a cygwin (Microsoft windows platforms) port of the entire gLite suite. It allows to access the grid under Microsoft operating systems, and it allows a farm to run jobs with a native windows application using a ported TORQUE version on a windows farm transparently to the gLite multicluster interoperability. Moreover Grid2win offers a user-friendly Graphical User Interface to access GRID common facilities.

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