GridCOMP

Effective Components for the Grids

Grids programming with components: an advanced component platform for an effective invisible Grid - a research project supported by the European Union.

A Grid Component Model

Information Technologies require standards for interoperability; they are a true catalyst for scientific and business development.

The GridCOMP project defines and implements a **Grid Component Model** (GCM) for the IT sector. Standard Grid components will make it possible to seamlessly compose applications and services deployed on large-scale infrastructures including several thousand machines all over the world.

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The "invisible Grid" Concept

The main goal of the GridCOMP project is the design and implementation of a component based framework suitable to support the development of efficient Grid applications. The framework will implement the “invisible Grid” concept as it will properly abstract all those specific Grid-related implementation details that usually require high programming efforts to be dealt with. GridCOMP will take the Grid Component Model developed by the CoreGRID Network of Excellence (http://www.coregrid.net) as a first specification, and use the OW2 ProActive Open Source implementation (http://www.ow2.org/) as a starting point. OW2 ProActive Grid middleware ensures interoperability with other standards such as EGEE gLite, UNICORE, NorduGrid, Globus, and Web Services.

Exptected Impact

GridCOMP will leave an imprint on the European and world-wide Grid community by:

- defining a component framework using standard tools;
- participating in well-known standardization bodies;
- disseminating the project results and achievements to both the scientific and industrial communities;
- contributing to the development of a component industry for the Grid.

CoreGRID

ProActive

ObjectWeb

Web site: http://gridcomp.ercim.org/

GridCOMP is a 'Specific Targeted Research Project' supported by the IST programme of the European Union (DG Information Society and Media, project nº FP6-034442)

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Cooperation

Coordination with the Networked European Software&Service Initiative (NESSI) is a strong priority, with the involvement of OW2, Atos Origin and IBM.

GridCOMP addresses both scientific computing and Grid-based business applications. The project can reach a world-wide audience thanks to the involvement of partners from Australia, China and South America.

Partnership

ERCIM EEIG
European Research Consortium
for Informatics and Mathematics, France

INRIA - Institut National de Recherche
en Informatique et en Automatique, France

Computer Science Department
University of Pisa, Italy

IBM Zurich Research Laboratory
Switzerland

University of Westminster
Harrow School of Computer Science
University of Westminster, London, UK

ATOS Origin, SAE, Spain

Department of Computer Science and
Technology, Tsinghua University, China

Institute of Information Science and
Technologies of the Italian National Research
Council (ISTI CNR), Pisa Italy

Department of Computer Science
and Software Engineering, University
of Melbourne, Australia

Grid Systems, SA, Mallorca, Spain

Computer Science Department,
University of Chile

Facts

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