

Data and the Grid: the role of a Database in a Distributed Environment

Thursday 10 May 2007 15:00 (20 minutes)

Describe the scientific/technical community and the scientific/technical activity using (planning to use) the EGEE infrastructure. A high-level description is needed (neither a detailed specialist report nor a list of references).

Overview

The creation, analysis and manipulation of data and meta-data lie at the heart of Grid Computing. This grid data takes many forms and is widely distributed - characteristics that are not normally associated with database management systems (DBMS). However databases are today playing a major part in the development of grid computing.

Report on the experience (or the proposed activity). It would be very important to mention key services which are essential for the success of your activity on the EGEE infrastructure.

Target Audience

§ DBA, Architects, Service Managers, and Developers

With a forward look to future evolution, discuss the issues you have encountered (or that you expect) in using the EGEE infrastructure. Wherever possible, point out the experience limitations (both in terms of existing services or missing functionality)

Speaker

Graeme Kerr, Technical Architect, Oracle in R&D Programme.

Describe the added value of the Grid for the scientific/technical activity you (plan to) do on the Grid. This should include the scale of the activity and of the potential user community and the relevance for other scientific or business applications

This presentation from Oracle Corporation, will explore the use of DBMS within grid computing. A range of data distribution models will be covered together with data structure and access methods. Examples of these models from both the Scientific and Enterprise Grid worlds will be presented.

Topics that will be covered are:

- § How to architect data
- § How to distribute data
- § Current experiences and common approaches

Attendees will be invited to participate and contribute to the open discussion during and following the speakers' contributions with the aim of:

- § Exchanging ideas and knowledge
- § Outline possible solutions or steps forward
- § Discussing open or specific issues in Data Distribution environments

Author: Mr KERR, Graeme (Oracle Corporation)

Presenter: Mr KERR, Graeme (Oracle Corporation)

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