Contribution ID: **23** Type: **oral presentation**

Proceedings on collaboration between EGEE and Platform Computing - User impact and experience

Friday 11 May 2007 09:00 (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).

At EGEE'06 conference, Platform Computing was announced as one of the first EGEE
Business Associates (EBA). This talk will report on the achievements of this
collaboration and partnership and on further proceedings. We will discuss, how
extended exploitation of readily available scheduler options started to change and
improve usage and user experience. One key result is improved handling of different
workload types in the EGEE infrastructure.

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.

Exploitation of advanced LSF features: The exploitation of LSF is based on the
recently introduced gLite mechanism for forwarding arbitrary information from the
grid user to the batch system. This allows users to request the functionalities of
the batch system to greater detail. The gLite team in Bologna together with Platform
Computing currently explores how this feature can be used to better exploit the
capabilities of LSF in order to build complex algorithms, in particular for parallel
jobs (MPI) and service-level agreement (SLA) scheduling and enforcement. Target is
to define a generic way of using grid-user provided information for interfacing to
local batch systems. The exploitation of LSF's data scheduling features will also be
explored. The potential impact on users and resource providers is tremendous.
Again, we will show first results and details, further plans. Questions from the
audience are encouraged, discussion expected

With a forward look to future evolution, discuss the issues you have encountered (or that you expect) in using the EGEE infrastructure. Wherever possi-

ble, point out the experience limitations (both in terms of existing services or missing functionality)

Future collaboration items: Some potential topics have been identified and will be
presented. Contributions and ideas on collaborations are welcome.

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

Impact and potential: As several Platform Computing customers participate in EGEE,
already more than 30% of the compute capacity is provided by Platform LSF sites.
Making the already available advanced LSF features working for gLite users and EGEE
resource providers is impacting the effective throughput and responsiveness situation
significantly, considered it potentially be used on more than a third of EGEE
infrastructure. First results and details are presented. LSF integration: In
the past, LSF integration into gLite and prior EGEE software stacks has proven to be
improvable: Robustness and performance, ease of use, well sorted documentation,
support for extended features are targeted. A side effect of the LSF exploitation is
a freshly reviewed and debugged LSF integration, updated documentation and
certification by the EGEE labs. Examples will be shown.

Author: Mr SCHOTT, Bernhard (Platform Computing)

Presenter: Mr SCHOTT, Bernhard (Platform Computing)

Session Classification: Workflow

Track Classification: Workflow