



Contribution ID: 320

Type: **Poster**

CREAM Computing Element: a status update

Tuesday, May 22, 2012 1:30 PM (4h 45m)

The European Middleware Initiative (EMI) project aims to deliver a consolidated set of middleware products based on the four major middleware providers in Europe - ARC, dCache, gLite and UNICORE.

The CREAM (Computing Resource Execution And Management) Service, a service for job management operation at the Computing Element (CE) level, is one of the software product part of the EMI middleware distribution.

In this paper we discuss about some new functionality in the CREAM CE introduced with the first EMI major release (EMI-1, codename Kebnekaise).

The integration with the Argus authorization service is one of these implementations: the use of a unique authorization system, besides simplifying the overall management, allows also to avoid inconsistent authorization decisions.

An improved support for complex deployment scenarios (e.g. for sites having multiple CE head nodes and/or having heterogeneous resources) is another new achievement.

The improved support for resource allocation in a multicore environments, and the initial support of version 2.0 of the Glue specification for resource publication are other new functionality introduced with the first EMI release.

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Session Classification: Poster Session

Track Classification: Distributed Processing and Analysis on Grids and Clouds (track 3)