

Application Demonstrations

C. Loomis, J. Moscicki, J. Montagnat EGEE European Review (CERN) May 24, 2006

www.eu-egee.org





INFSO-RI-508833



- How are applications driving the evolution of the grid to make it more appealing to a broader community?
- Demos from two pilot applications which do this by:
 - Making the grid easier to use
 - Pushing for and using enhanced middleware functionality
- Both demonstrations use the production infrastructure:
 - No special modifications of the infrastructure for the demos.
 - Demos do use some application-specific services.





- Presented by: Jakub Moscicki (CERN)
- Developed by ATLAS and LHCb, two LHC experiments.
- GANGA framework provides:
 - Uniform interface to computing resources (grid and non-grid)
 - Monitoring and management of a user's workload
- Simplifies the use of the grid and makes it more appealing to a larger number of (non-expert) users.



- Presented by: Johan Montagnat (I3S)
- Collaboration between the middleware developers, operations, and users themselves.
- Brings together gLite services to provide coherent system for secure, distributed, and fast treatment of medical images.
- Demonstrates high-level functionality which will make the grid attractive for more applications.

4





GANGA

INFSO-RI-508833

Demos – May 24, 2006 – C. Loomis



Second demo...

Medical

Data

Management

INFSO-RI-508833

Demos – May 24, 2006 – C. Loomis



Summary & Outlook

- Enabling Grids for E-sciencE
- Functionality demonstrated:
 - High-level submission and monitoring of workloads.
 - Complex workflow management.
 - Encrypted data services.
 - Low latency scheduling, fast response.
- Starting to see convergence toward high-level grid interfaces: common application layer.
- Synergy between applications.
 - GANGA used by others; SDJ useful for HEP.
- Broadening of functionality and appeal of the grid.

7