

JRA1/IT-CZ  
CNAF site report  
Milan, 24<sup>th</sup> Sep 2004

# Information Modeling

- GLUE Schema:
  - promoting the evolution of the schema
  - Website for tracking open issues and discussion: <http://inf Forge.cnaF.infn.it/projects/glueinfomodel/>
  - 7 open issues at the moment:  
[http://inf Forge.cnaF.infn.it/tracker/?atid=118&group\\_id=9&func=browse](http://inf Forge.cnaF.infn.it/tracker/?atid=118&group_id=9&func=browse)
  - Difficulty in attracting active participants (currently only 1 person provides for prompt feedback)

# Information Modeling

- GLUE Schema:
  - Evolution strategy: 2 main branches
    - 1.2 for “bug fix”, maintenance version
    - 2.0 for the major release (it should include the new concept of CE)

# Matchmaking

- Investigated the Condor Gang-matching for the co-allocation of different resources with a single request
- The support for this “enhanced” matchmaking is provided in a research-quality software library

# QoS Evaluation

- Developed a theoretical model for the QoS evaluation of a set of given services as regards the desired user satisfaction
- Possible implementation approaches:
  - Use in the Condor Matchmaking process (gang-matching), rank expression
  - Investigate how it can be used with the XQUERY language; to be used with XML representation of services
  - Investigate how it can be used in the area of XML document filtering

# VOMS

- `org.glite.security.voms*` in EGEE CVS
- Rewriting of build system in INFN CVS
- New proxy certificates according to RFC3820 in INFN CVS
- Compatibility between different versions of GT in INFN CVS
- Update of EGEE CVS beginning of October

# PBOX

- Prototype ready in INFN CVS
- On-going installation on some test machines

## Roadmap

- End of installation 11<sup>th</sup> Oct
- Testing 12<sup>th</sup> – 26<sup>th</sup> Oct
- Integration in Grid.it end of Oct
- Then prototype review towards next version

# WS technology survey

- Evaluation of existing WS frameworks
  - Usability
  - Adherence to standards
  - Maturity



# DAG support

- Check for cycles
  - `boost::graph`
- Translation from DAGMan format to classad format
  - using `boost::spirit`

# Workload Manager

- Introduction of Task Queue
- Introduction of ISM

# Quality Assurance

- Guardian Angel activity
- Contributing to coding guidelines
  - Evaluation of Code Wizard for automatic checks