



Enabling Grids for E-science

## University Of Macedonia (UoM)

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*Athens , 14/03/2006*

[www.eu-egee.org](http://www.eu-egee.org)



INFSO-RI-508833

- **UoM's research activities**
  - Operation of Parallel and Distributed Processing Laboratory
    - Research on MPI applications
      - *Operation of two clusters (ROCKS and OpenMosix)*
    - Research of similar to grid technologies like Condor and BOINC
  
- **UoM's EGEE activities**
  - Initial involvement since September 2004 with first tests of LCG middleware
  
  - Production Site (GR-02-UoM) began to operate on January 2005 (LCG middleware)
  
  - Pre-Production Site (PreGR01-UoM) began to operate on May 2005 (gLite middleware)

- **Current Status**

- 12 nodes:
  - CE, SE, UI, MON and 8 WN's
  - All nodes are P4 - 3Ghz with 512MB (some 1GB) of memory
  - 1TB of disk storage on SE (Classic SE)
- LCG 2.7.0 middleware (as of 03/03/2006)
- Support Alice, Atlas, Cms, Dteam, Lchb, See and Sixt
- Plans for expansion and upgrade

- **Related Services**

- Two administrators , Mon-Fri 09:00 – 17:00
- Daily monitoring and testing of site services
- Try to resolve tickets and apply ROC instructions immediately
- Try to provide a constantly operating site
- Document every procedure

- **Current Status**

- 7 nodes
  - CE, SE-DPM, UI, RGMA and 2 WN's
  - More important nodes are P4 – 2,8Ghz with 1GB of memory
  - Older hardware in some nodes (like UI and RGMA)
  - 100GB of disk storage on SE
- gLite 1.4.1 middleware (planning to move to gLite 3.0)
- Planning to add more WN's

- **Related Services**

- Two administrators involved with the site
- Try to provide an operating site so gLite can be constantly tested
- Document procedures so gLite can be improved and corrected
- Follow on the gLite developments by watching and participating on the daily e-mail debates and conversations

- **Sharing the Grid technology with our students**
  - Try to involve pre-graduate , post-graduate and PhD students to use the grid for their research purposes
  - Added lectures regarding Grid technologies and EGEE to the corresponding classes of both pre-graduate and post-graduate departments
  - Hosted two seminars regarding Grid and EGEE on 8,9/07/2005 and 27,28/02/2006 - organized by GRNET and CERTH
- **More Information**
  - <http://www.it.uom.gr/mpiwweb/globus.htm>