

UB Infrastructure(1): CSELinux Grid



- Goal: To facilitate development of service-oriented applications for the grid.
- Two major components: Staging server and Production grid Server.
- Grid application are developed and tested on staging server and deployed on a production server.
- Production grid server:
 - Three compute nodes with Red Hat Linux and Globus 3.0.2 instance.
 - One utility gateway node with Free BSD and Globus 3.0.2.

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CSELinux: Development

Environment



Grid UB Infrastructure(2): CSECCR

- Goal: To run jobs submitted in a distributed manner on a Condor-based computational cluster Condor.
- Composed of 50 Sun recycled used Sparc4 machines, which form computational nodes, headed by a frontend Sun server.
- The installation scripts are custom-written facilitating running of jobs in a distributed manner.
- Partially supported by Center for Computational Research (CCR).

















Getting to know the grid?

- Start with reading the literature on Condor and Globus grid.
- http://www.globus.org/research/papers/anatomy.pdf
- http://www.globus.org/research/papers/ogsa.pdf
- http://www.globus.org/research/papers.html
- Try out the grid tutorials and reference implementations.
- Explore newer businesses and business models.
 - Example: storage service, personal database service (personal identity management)
 - Work on a reference implementation of grid specification.
 - http://www.extreme.indiana.edu/swf-survey/