Using Access Grid for distributed collaboration

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Overview

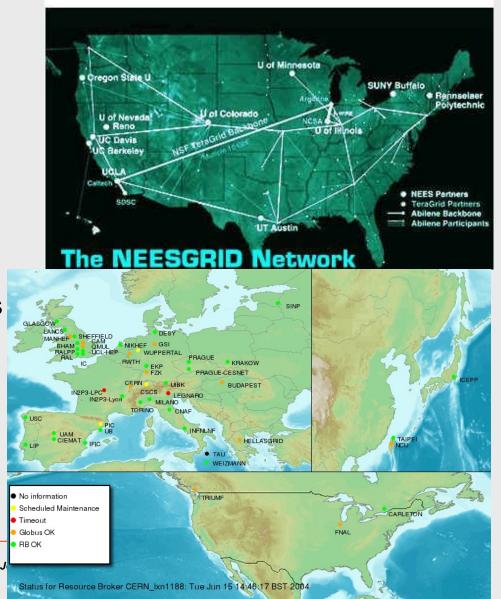
- Introduction
- Grid
- Distributed collaboration
- Access Grid
- Access Grid @ Srce
- Conclusion

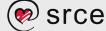
Introduction

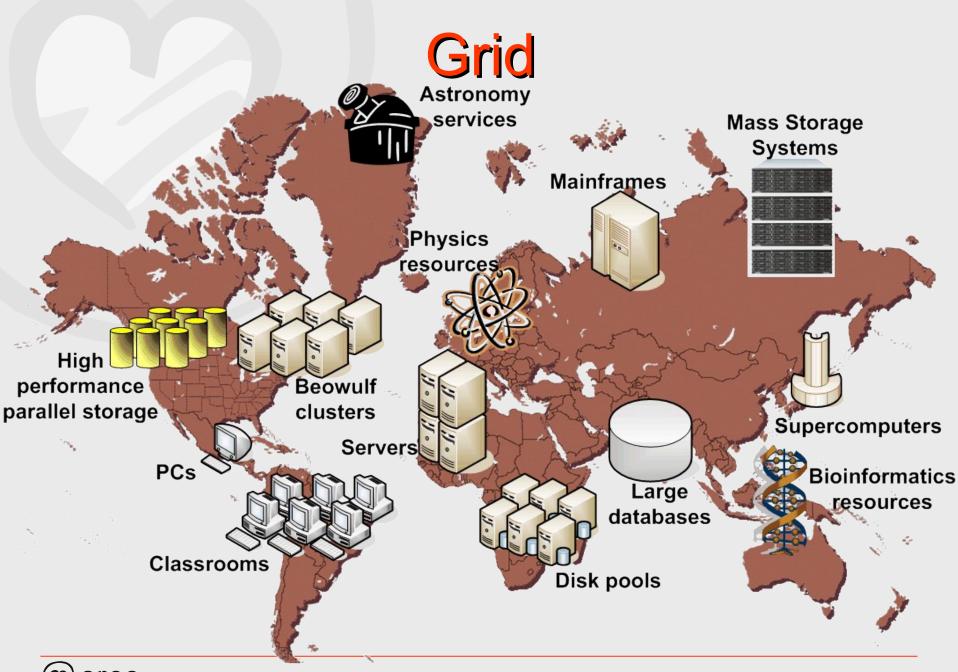
NEESgrid: NEES System Integration

e-Science

- Contemporary scientific experiments
- Global collaboration
- Examples:
 - CERN Particle physics
 - BIRN neural images
 - NEES Grid earthquakes







Access Grid

- Collaboration system
- Based on contemporary grid technology
 - Globus Security Infrastructure (GSI)
- Group to group teleconferencing
- Shared applications PowerPoint, scientific applications
- Using multicast audio (rat) & video (vic) technologies
- http://www.accessgrid.org/

Access Grid architecture

- Venue Server
 - Hosts venues virtual rooms
- Bridge Server
 - Enables access to non-multicast networks
- Access Grid nodes
 - High-tech multimedia classrooms
 - Access points for collaborators
 - There are 60 nodes in the world
- PIGs
 - Personal Interface to Grid
 - Access Grid installations on personal computers





AccessGrid@Srce

- Several deployments
- Two Access Grid nodes:
 - Distributed on two computers
 - PIG
- Two Access Grid nodes + Venue Server
 - Venue Server
 - Distributed node + PIG
- Two Access Grid nodes + Venue Server + Bridge Server

AccessGrid@Srce

























AccessGrid practical

- Board meetings
 - Venue Server in Canada
 - Collaborators from Austria, Germany, Canada and Australia
- * IACCS
 - http://www.iacss2005.hr/
 - Streaming & participation

www.srce.hr/crogrid