SCIENCE GRID THIS WEEK

April 5, 2006

Calendar/Meetings

April

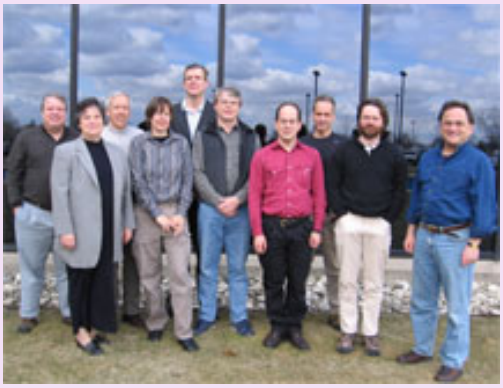
2-6, High Performance Computing Symposium (HPC 2006), Huntsville, Alabama

3-7, ICDE '06: The 22nd International Conference on Data Engineering, Atlanta, Georgia

9-11, caBIG 2006 Annual Meeting, Arlington, Virginia

Full Calendar

Image of the Week



Members of the OSG Executive Board. (Click on image for larger version.)
Image Courtesy Open Science Grid Consortium

The Open Science Grid is a U.S. grid computing infrastructure that supports scientific computing via a collaboration of science researchers, software developers and computing, storage and network providers.

Read more...

Link of the Week

Feature Story

Predicting Extreme Weather With SCOOP

Hurricane Katrina simulations and observations created using OpenIOOS and SCOOP technology.
Image Courtesy OpenIOOS

When a storm threatens the coastal United States, emergency-response managers look to scientists to help them prepare for potentially catastrophic consequences. Accurate predictions of the environmental response to extreme weather keep disaster recovery costs down and help save lives. Creating accurate and timely predictions requires bringing many different types of data from many different organizations together with a large amount of on-demand computing power—a task uniquely suited to cyberinfrastructure and grid computing.

Coastal researchers can now harness only a limited amount of up-to-date monitoring information and computing power for their predictions. The Southeastern Universities Research Association (SURA) has undertaken the SURA Coastal Observing and Prediction (SCOOP) program with the hope to change that, by creating the first distributed real-time environmental prediction system.

"We're creating a prototype distributed laboratory that's advancing the science of environmental prediction and hazard planning," said SCOOP Program Director Philip Bogden. The

Announcement

2006 Summer Grid Workshop Now Accepting Applications

Forty-two students attended the 2005 workshop.

The Summer Grid Workshop, a unique opportunity for graduate and advanced undergraduate students to learn about distributed computing and its application in scientific data analysis, is now accepting applications. The deadline is April 23 to apply for the 2006 session, which will be held June 26-30 on South Padre Island, Texas.

The aim of the week-long workshop is to provide a basic foundation in distributed computing and valuable hands-on training in distributed computing techniques. The workshop introduces essential skills that will be needed by students to conduct and support large-scale scientific analysis in the emerging grid computing environment. Workshop participants will work with some of the world's leading grid experts through lectures, discussions and hands-on computing exercises on large-scale grid hardware and software resources.

Undergraduate or graduate students majoring in computer science, physics, math or other scientific disciplines may apply. Applicants should have at least intermediate programming skills (one to two semesters of hands-on experience in C/C++, Java, Perl and/or Python) and hands-on experience with UNIX or Linux in a networked environment. Full or partial scholarships are available.

The workshop is jointly sponsored by

Try the EGEE Grid

Visit this site to try the Enabling Grids for E-sciencE (EGEE) grid. A walkthrough takes you through running an example scientific application on the GILDA Testbed, and a video provides more in-depth information.

PDF Version for Printing

XML RSS Headlines

Office of Science/ U.S. DOE

SCOOP cyberinfrastructure will initially be focused around the southeastern coast of the United States, first integrating diverse data flows from a variety of already established coastal ocean observing efforts and then incorporating the data flows into an open-access, scalable environmental prediction system.

Full article

Announcement

First EGEE Industry Day

The EGEE Industry Day will be a unique platform for industry to interact directly with the EGEE project, the biggest grid infrastructure in Europe, and will bring together decision makers, research heads, policy makers and chief technology officers to learn how industrial applications can be deployed on EGEE.

The event, which will take place April 27 in Paris, will highlight where grid computing can create new industrial solutions and how organizations can benefit from sophisticated computing resources not available in traditional IT infrastructures. Interactive discussions will provide an opportunity to get an industry perspective and discover how to EGEE can work towards a commercial grid. The event is free of charge, but registration is required due to the limited amount of space.

The EGEE, which is funded by the European Commission, began its second phase on April 1. During the first phase, key applications were deployed in scientific fields, such as High Energy Physics, life sciences and earth observation that have paved the way for application deployment in the industrial sector and increased links with industry.

the Center for Gravitational Wave Astronomy, a NASA University Research Center at the University of Texas at Brownsville, the International Virtual Data Grid Laboratory, the Grid Physics Network and the Open Science Grid.

More Information

Grids in the News

How linking PCs spreads load and saves money
The New Zealand Herald, April 4, 2006
By Simon Hendery

It is the computing equivalent of the old adage "many hands make light work".

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Grid Speeds Up Brain Tumor Research
GRIDtoday, April 3, 2006
By Derrick Harris

Eric Bremer, director of the pediatric brain tumor research program at Children's Memorial Hospital in Chicago, needed the power of high-performance computing, but he needed it at a fraction of the cost.

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Romanian National Grid Conference Takes Place
EGEE News Release, March 31, 2006

The National RoGrid Conference, a nationwide dissemination event for both the EGEE and SEE-GRID projects, took place in Bucharest, Romania on 21-22 March 2006.

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NCSA, SDSC Add Compute Systems to TeraGrid
SDSC Press Release, March 30, 2006

As of April 1, users requesting high-performance computing resources from the National Science Foundation have seamless access to all

More Information

computational resources at the San Diego Supercomputer Center (SDSC) and the National Center for Supercomputing Applications (NCSA) within the TeraGrid environment.

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