

Calendar/Meetings

February

13-16, [GGF16: The 16th Global Grid Forum](#), Athens, Greece

13-17, [CHEP06: Computing in High Energy and Nuclear Physics](#), Mumbai, India

March

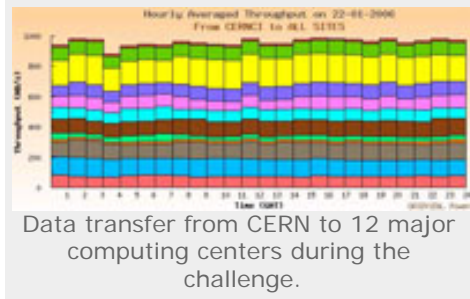
1-3, [First EGEE User Forum](#), CERN, Geneva, Switzerland

7-8, [Second CLEANER All-Hands Meeting](#), Arlington, Virginia

[Full Calendar](#)

Feature Story

Global Grid Service Meets Gigabyte-Per-Second Challenge



In a breakthrough for scientific grid computing, the Worldwide LHC Computing Grid (WLCG) collaboration officially announced the successful completion of a service challenge that sustained a continuous flow of physics data on a worldwide grid infrastructure at rates of up to one gigabyte per second. The maximum sustained data rates achieved correspond to transferring one DVD's worth of scientific data every five seconds.

The data were transferred from CERN in Geneva, Switzerland to 12 major computer centers around the globe. Over 20 other computing facilities were also involved in successful tests of the global grid service for real-time storage, distribution and analysis of particle physics data. The completion of this challenge is a key milestone on the way to establishing the necessary computing infrastructure for the Large Hadron Collider (LHC), the world's largest scientific instrument, scheduled to start operation in 2007.

Commenting on the significance of the results, Jos Engelen, the Chief Scientific Officer of CERN, said "Previously, components of a full grid service have been tested on a limited set of resources, a bit like testing the engines or wings of a plane separately. This latest service challenge was the equivalent of a maiden flight for LHC computing. For the first time, several sites in Asia

Announcement

Apply by May 1 for the International Grid Computing Summer School

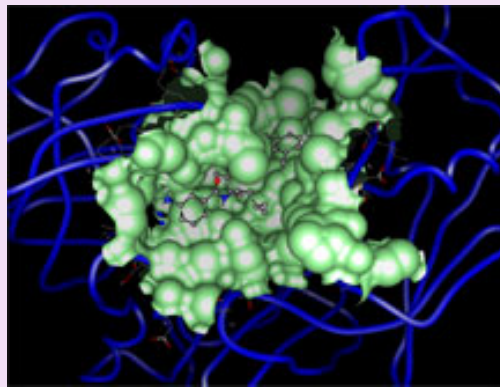


Students from all over the world are invited to apply for the fourth International Summer School in Grid Computing, to be held July 9–21, 2006 in the Jolly Hotel Delle Terme, on the beautiful island of Ischia in the bay of Naples.

Applications are invited from students and researchers from any country who have recently started, or who are about to start, working on grid projects, or educators who plan to teach grid computing. Researchers from computer science, computational science or any application discipline are encouraged to apply. Competence and experience in some aspects of software development, distributed systems, computational systems, data systems and grid applications are expected. The Summer School will be conducted in English.

The school offers a rare opportunity to hear about the latest achievements in grid computing from Europe, North America and Asia, and an in-depth introduction to the grid technologies that underpin e-infrastructure and cyberinfrastructure. Lectures will be given in the mornings, followed by hands-on laboratory exercises with widely used middleware on a testbed connected to major international grids. Graduates of the school will be

Image of the Week



Discovering potential antimalarial drugs with EGEE. (Click on image for larger version.)

Image Courtesy Nicolas Jacq, CNRS/IN2P3

The [Wide In Silico Docking on Malaria \(WISDOM\)](#) project uses the EGEE grid to match three-dimensional structures of proteins from the malarial parasite to ligands, chemical compounds that bind to protein receptors. Ligands that match to the parasite, as shown in this image, may be used to develop new drugs to fight

malaria. Grid technology can reduce the number of candidate compounds from millions to thousands or even hundreds, isolating the most promising candidates and speeding up the drug discovery process.

Link of the Week

Updating Computer Science

Curricula

In this column in IEEE Distributed Systems Online's new education department, Marcin Paprzycki from the Warsaw School of Social Psychology discuss revamping the undergraduate computer science curriculum to include parallel and distributed computing right from the start.

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Office of Science/
U.S. DOE

were also involved in this service challenge, making it truly global in scope. Another first was that real physics data was shipped, stored and processed under conditions similar to those expected when scientists start recording results from the LHC."

[Full article](#)

NSF Names Daniel Atkins to Head New Office of Cyberinfrastructure

The National Science Foundation (NSF) has named distinguished computer scientist Dr. Daniel E. Atkins to head its newly created Office of Cyberinfrastructure.



Daniel Atkins
Image Credit:
University of
Michigan

Dr. Atkins, a professor in the School of Information and in the Department of Electrical and Computer Engineering at the University of Michigan, Ann Arbor, has made major contributions to high-performance computer architecture, and led or participated in the design and construction of seven experimental machines including some of the earliest parallel computers.

He developed high-speed arithmetic algorithms now widely used in the computer industry, conducted pioneering work on special-purpose architecture including collaboration with the Mayo Clinic on development of computer-assisted tomography (CAT), and chaired the committee at Michigan that developed one of the earliest computer engineering undergraduate degree programs. More recently his research has focused on the social and technical architecture of distributed knowledge communities.

[Read the full NSF press release](#)

familiar with the fundamental components of grid environments, able to use them for job submission and distributed data management, and knowledgeable about worldwide grid achievements, emerging grid applications and new research opportunities.

The School is prepared by the EGEE project, is part of the ICEAGE Project, and is endorsed by the Global Grid Forum. For further information please read the [full announcement](#), email the [organizers](#) or visit the [Web site](#).

Grids in the News

GGF, EGA to Merge

GRIDtoday, February 13, 2006

On Feb. 6, the Global Grid Forum (GGF) and the Enterprise Grid Alliance (EGA) signed a non-binding Letter of Intent to merge, bringing together two leading Grid organizations with a shared mission and common values.

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From cattle to chemicals: Colorado school seeks to expand grid computing efforts

NetworkWorld, February 13, 2006
By Bob Brown

Colorado State University's Patrick Burns could talk about grid computing 'til the cows come home.

[Read More...](#)

UK e-Science Programme moves on with new ambassador

UK e-Science Programme News Release, February 8, 2006

The UK e-Science Programme is entering a new phase with the appointment of its first envoy and the award of continued funding to eight e Science centres.

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