

## What Ruth works on in the Computing Division

- Program Support Group mission
- Grids
- US CMS

## Program Support Group

### Support for the

- Internal Program of the Division  
and the
- External Program with our wider Community

### Support for

- Administrative Processes.
- Collaboration with external groups.
- Propose, plan and publish information about projects. Help the Department Heads, Project and Program leaders in organizing briefings, status reports, coherent framework for project information.
- Applying for additional funding opportunities. Help Vicky work with many people and NSF and DOE sponsors.
- Technical writing and web content including HEPIC and support of DOE HEP web

## Program Support

Administrative professionals available to help you through the departments.

Web pages and Internal information

Projects in support of Division Infrastructure with other groups and departments

cd-sis@fnal.gov mail list for "one time requests"

welcome my new assistant in all responsibilities - Penelope

# Computing Division Web Front Door..

Fermi National Accelerator Laboratory

## Computing Division

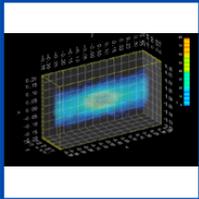
CD Home	Search	Departments	Projects	Help Desk	Index	At Work
System Status	Metrics	Phonebook	Security	Policy	Organization	CD Internal

Cutting Edge Computing >>>    Grid    Data Handling    Lattice QCD

**Links**

- News & Announcements
- User Essentials
- Windows
- UNIX/Linux
- Physics Tools
- Experiments
- Theory
- Accelerator Projects
- Additional Services

Computing Division Mission Statement



Modeling the FNAL Booster. More information is available on the CD Advanced Accelerator Simulation page.

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**Today's News**

*Revised: May 3, 2004*

**Project Meetings for the Week of May 3, 2004:**

5/05, Wed 9:00, FCC1  
**GEANT4 (Status)**  
**CD-DOCDB Evaluation (Briefing)**

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**Computing News**

**FNPRT printserver scheduled downtime** to apply patches Thursday May 6, 2004 - 5:30 a.m. - 7:30 a.m.

**Memorial Ceremony for Carmenta Moore**, Wednesday May 5th at noon. There will be a memorial ceremony and tree planting for Carmenta Moore on the path by the pond between FCC and Wilson Hall. Everyone is welcome. To arrange for visitors to pass through security, contact Jo Ann Larson at x2690. For more information on the service, email Eileen Berman.

**Phase 1 of the System Registration Form** put into production on Wednesday morning, 4/21/04. [More Information...](#)

**Mandatory registration of network devices** will be required beginning Thursday February 26 for some. Please see the DHCP Registration Announcement for more information about registration. Consult the Rollout schedule to determine when your machines will be affected.

[More News and Information](#)

Security, Privacy, Legal    Fermi National Accelerator Laboratory

For assistance, contact Help Desk, [helpdesk@fnal.gov](mailto:helpdesk@fnal.gov)  
 For comments about this page email [cdweb@fnal.gov](mailto:cdweb@fnal.gov)  
 If you would like to post news or photos on this page, please [Read this](#).

# And Internal Pages..

Fermi National Accelerator Laboratory

## Computing Division

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**Division**

**Personnel**

**Purchasing**

**Travel**

**Building Management**

**ES&H**

**Administrative Support Information**

Division

<p><b>• DIVISION CALENDARS:</b></p> <ul style="list-style-type: none"> <li>Victoria White</li> <li>Bob Tachikari</li> <li>Ruth Pordes</li> <li>Steve Wolbers</li> <li>Don Petrowski</li> <li>Lothar Bauerdick</li> <li>Mark Kateska</li> <li>CD Assignment Calendar</li> </ul> <p><b>• DIVISION EVENTS:</b></p> <ul style="list-style-type: none"> <li>DOE Operations Review March 2004</li> <li>Run II Computing Review - Final Report</li> <li>CHEP2003: Abstracts</li> <li>CHEP2003 Talks</li> <li>CHEP2004 - Abstracts</li> <li>Computing Techniques Seminar</li> </ul> <p><b>• DIVISION ISSUES:</b></p> <ul style="list-style-type: none"> <li>2002 Computing Division Self-Assessment</li> <li>2003 Computing Division Self-Assessment - PDF or Word</li> <li>Reporting Unusual or Off-Normal Occurrences</li> </ul> <p><b>• DIVISION REFERENCES:</b></p> <p><b>Transition Presentations</b></p> <ul style="list-style-type: none"> <li>All-Hands: 9/30/02</li> <li>All-Hands: 11/11/02</li> </ul> <p>Soft Funding Opportunities</p>	<p><b>• DIVISION MEETINGS:</b></p> <p><b>CD Operations Meeting</b></p> <ul style="list-style-type: none"> <li>Minutes</li> <li>Operations Sign</li> </ul> <p><b>CD Budget Meeting</b></p> <ul style="list-style-type: none"> <li>FY03 Dir. Budget Review</li> <li>Slides</li> </ul> <p><b>CD Projects Status Meeting</b></p> <ul style="list-style-type: none"> <li>Projects Homepage</li> <li>Projects Schedule</li> </ul> <p><b>CD Briefing Meeting</b></p> <ul style="list-style-type: none"> <li>Briefing Schedule</li> <li>Briefings of 10/21/2002</li> <li>Briefings of 12/13/2002</li> <li>Guidelines</li> </ul> <p><b>Quarterly DUES&amp;H Meeting</b></p> <ul style="list-style-type: none"> <li>Minutes</li> </ul> <p><b>• DIVISION ORG CHART:</b></p> <ul style="list-style-type: none"> <li>CD Org Chart (January, 2004)</li> <li>CD Phone List (December, 2003)</li> <li>CD Email List (December, 2003)</li> </ul> <p><b>• DIVISION E-MAIL DISTRIBUTION LIST:</b></p> <p>Lists</p>
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Personnel

<ul style="list-style-type: none"> <li>Leave Usage</li> <li>Vacation Form (2004-2005)</li> <li>Notifying Others of Scheduled Leave</li> <li>Fermilab SIST Job Submission Form</li> <li>Employment Requisition Form</li> <li>Employee Data Form</li> <li>Contractor ID Cards</li> <li>ES&amp;HTRK Organization Charts</li> </ul>	<ul style="list-style-type: none"> <li>Pager Numbers</li> <li>Fax Numbers</li> <li>Fermilab Telephone Directory</li> <li>Performance Appraisal Forms</li> <li>Interview Evaluation Form</li> <li>Word</li> <li>PDF</li> <li>HTML</li> <li>Internal Transfer Form</li> </ul>	<ul style="list-style-type: none"> <li>CD Staff Locator</li> <li>Summer Employment Request Form</li> <li>Summer Employment Request for Teacher RA</li> <li>Personnel Requisition Form</li> <li>Word</li> <li>PDF</li> <li>HTML</li> </ul>
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Purchasing

<p style="text-align: center; font-size: small;">The Purchasing Webpage Contains Links to the Following Applications and Reports</p> <p>MISER Requisitioning Home Page</p> <p>MISER Purchase Request Query Page</p> <p>eMatrix Requisition Approval Application</p> <p>Monthly Effort Reporting Application</p>	<p style="text-align: center; font-size: small;">Computing Division Task Profile</p> <p>Business Services Website Queries</p> <p>Monthly Reports.</p>
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Project Accounting, April 2003

<ul style="list-style-type: none"> <li>CD Town Hall Meeting</li> <li>What is Project Accounting?</li> </ul>	<ul style="list-style-type: none"> <li>Justification for Noncompetitive Procurement (Sole Source)</li> <li>Abbreviated Implementation Plan (AIP)</li> </ul>
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Please contribute Images  
 Please contribute for News Items  
 Plan to revamp cdinternal web page in next couple of months.

# Web Pages for Projects, Travel...a work in progress



Fermi National Accelerator Laboratory

## Computing Division

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<a href="#">System Status</a>	<a href="#">Metrics</a>	<a href="#">Phonebook</a>	<a href="#">Security</a>	<a href="#">Policy</a>	<a href="#">Organization</a>	<a href="#">CD Internal</a>

### Major Project Areas

<ul style="list-style-type: none"> <li>Accelerator Support</li> <li>Astro</li> <li>BTeV</li> <li>CDF Run2</li> <li>Collaboration Tools</li> <li>Computer Facility Support</li> <li>Customer Services</li> <li>D0 Run2</li> <li>DAQ</li> </ul>	<ul style="list-style-type: none"> <li>Data Movement and Storage</li> <li>Databases</li> <li>Department Infrastructure</li> <li>Education Office</li> <li>Engineering Support</li> <li>Farms</li> <li>GRID</li> <li>Mail</li> <li>MISCOMP</li> </ul>	<ul style="list-style-type: none"> <li>Networks</li> <li>Neutrino Program</li> <li>Physics Applications</li> <li>Research and Development</li> <li>Servers</li> <li>Simulation</li> <li>Theory</li> <li>USCMS</li> <li>Visualization and VR</li> </ul>
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Projects within the Computing Division at Fermilab are defined to describe the program of work of the Division that is not of an ongoing operational or support nature. Projects are expected to start, execute and complete. Projects can range from small, month long efforts to multi-year strategic programs of work. Projects range from internal single group or department efforts to large collaborations involving one or more experiments and/or many outside institutions and groups. Following is a list of current projects:

#### Schedule of Projects Meetings

[Search Projects Database](#)      [Search Document Database](#)

#### Current Projects

[Managing Projects](#)

#### Current Projects

<ul style="list-style-type: none"> <li>Accelerator Simulation</li> <li>Accelerator Support</li> <li>Administrative Support</li> <li>Advanced WAN Infrastructure</li> <li>AFS Support</li> <li>Anti-SPAM</li> <li>Aperture Enhanced Data Center</li> <li>Astro</li> <li>BLAST</li> <li>BTeV</li> <li>BTv Computing</li> <li>BTv DAQ</li> <li>BTv Pixels</li> <li>BTv RTEs</li> <li>BTv Trigger</li> <li>Budget and Financial Support</li> <li>CD DocDB</li> <li>CD-DOCDB Evaluation</li> <li>CDF CAF</li> <li>CDF Data Handling</li> <li>CDF Interactive Login Pool</li> <li>CDF Offline Database Applications</li> <li>CDF Offline Software Infrastructure</li> <li>CDF Online Standby Database</li> <li>CDF PEAC</li> <li>CDF Run2</li> <li>CDMS Computing</li> <li>CMS DAQ</li> <li>Collaboration Tools</li> <li>Computer Facility Support</li> <li>Computer Safeguards and Security</li> <li>Computer Security</li> <li>Computer Security Application</li> <li>Conference Support</li> <li>Control Room Logbook</li> <li>Customer Services</li> <li>D0 Detector Luminosity Monitor</li> <li>Firmware</li> <li>D0 Event Model Upgrade</li> <li>D0 L1 Ecal Test Waveform Generator</li> <li>D0 Run2</li> <li>D0 Tracking Effort Upgrade</li> </ul>	<ul style="list-style-type: none"> <li>Education Office</li> <li>Email Operations</li> <li>Engineering Support</li> <li>Environmental Safety and Health</li> <li>Equipment Handling and Repair</li> <li>Farms</li> <li>Fixed Target</li> <li>fronTier</li> <li>GEANT4</li> <li>General-Purpose Farms</li> <li>GRID</li> <li>GridFTP</li> <li>Helpdesk Upgrades</li> <li>HEPBOOK</li> <li>HEPIC</li> <li>HEPVi Library</li> <li>High Density Computing Facility Network</li> <li>Upgrade</li> <li>IMAP Server Upgrades</li> <li>IVCL</li> <li>KAI-GCC Transiation</li> <li>Lattice QCD</li> <li>Link-On-Line</li> <li>Linux OS Support</li> <li>Lower-Storage</li> <li>Mail</li> <li>Mail Antivirus</li> <li>Mail Gateway Upgrades</li> <li>Maintain Computing Division Exhibit Area</li> <li>Metrics</li> <li>MiniBoone Computing</li> <li>MiniBoone Event Display</li> <li>Minos Computing</li> <li>Minos Database</li> <li>MINOS Offline Software</li> <li>MISCOMP</li> <li>MISCOMP</li> <li>Miscomp Upgrade to Oracle 9i</li> <li>Multimedia</li> <li>Network Investigations &amp; Tool Developments</li> <li>Network Operations &amp; Maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Oracle Streams</li> <li>Packaging and Distribution Tools</li> <li>Patriot</li> <li>PC Support</li> <li>Physics Applications</li> <li>Pierre Auger Computing</li> <li>PPDG</li> <li>PREP and Online</li> <li>Project Tracking and Effort Reporting</li> <li>Prototype Farms</li> <li>QuarkNet/Grid</li> <li>Research and Development</li> <li>ROOT</li> <li>RunJob</li> <li>Safety</li> <li>SAM-CRID</li> <li>SAN Storage System</li> <li>ScIDAC-Accelerator</li> <li>ScIDAC-Lattice Gauge</li> <li>ScIDAC-PPDG</li> <li>ScIDAC-SRM</li> <li>Scientific Research</li> <li>SDSS</li> <li>Servers</li> <li>Simulation</li> <li>Site-wide Backups</li> <li>Sitewide Services</li> <li>SNAP Electronics R&amp;D</li> <li>Software &amp; Product Support</li> <li>Special-Purpose Farms</li> <li>Storage Resource Manager</li> <li>Teatron BPM Upgrade</li> <li>Teatron Ionization Monitor</li> <li>Theory</li> <li>Upper-Storage</li> <li>USCMS</li> <li>USCMS User Facility CD Department</li> <li>Effort</li> <li>USCMS Department Base</li> <li>USCMS Project Core Applications</li> <li>Software</li> </ul>
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Fermi National Accelerator Laboratory

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Home

Travel Information

#### Domestic

<a href="#">US General Services Administration Homepage</a>	<a href="#">County Data Query</a>
<a href="#">GSA: Privately Owned Vehicle Reimbursement Rates (POV)</a>	<a href="#">Federal Discount Lodging Directory</a>
<a href="#">GSA: Domestic Per Diem Rates 2004</a>	<a href="#">Information Re: Visiting Fermilab</a>
<a href="#">Top Travel Form for Travel Packets (PDF)</a>	<a href="#">Mileage Reimbursement</a>

#### Foreign

[FTMS FORM](#)      [Future Conferences](#)

#### Documentation

<a href="#">Admin Staff Guide (Working on this)</a>	<a href="#">Travel's Guide</a>	<a href="#">Admin Guide</a>
<a href="#">Visa/Passport Information</a>	<a href="#">FAQ's for Travelers</a>	<a href="#">FAQ's for Admin's</a>

#### Sites to Visit: (I need words for here)

<a href="#">FTMS Site</a>	<a href="#">Power Trip</a>	<a href="#">PAL</a>
<a href="#">West Suburban limo</a>	<a href="#">To request a reservation at the CERN Hostel and Sample</a>	

#### Useful links

<a href="#">Per Diem Allowances Homepage</a>	<a href="#">Currency Converter</a>	<a href="#">CD Approved Travel Codes</a>
<a href="#">2004</a>	<a href="#">2003</a>	<a href="#">Most Used Currency Codes</a>
<a href="#">Monthly Calendars</a>	<a href="#">Admin Most used Acronyms</a>	<a href="#">Sensitive Countries</a>
		<a href="#">Acronyms of HEP</a>

#### Templates/Forms

<a href="#">Top Travel Form PDF</a>	<a href="#">Excel</a>	<a href="#">Trip Report Form (doc) and Instructions</a>
<a href="#">Request for Registration Fee PDF</a>	<a href="#">Excel</a>	<a href="#">Clearance Form (for sensitive Countries)</a>

.. and what we get most upset mail about



The screenshot shows the top of the Fermilab website. On the left is the Fermilab logo, which consists of a stylized 'F' made of four smaller 'F's, followed by the word 'Fermilab' in a bold, sans-serif font. To the right of the logo is a blue horizontal bar. Further right is a circular image showing a group of people in a laboratory setting. Below the logo and image is a search bar with the word 'search' centered above it. Below the search bar is a navigation menu with the following items: home, about Fermilab, contacting Fermilab, inquiring minds, visiting Fermilab, education, search, for physicists, Fermilab now, public events, FermiNews, Fermilab at work, press pass, and help.

**Search the main public areas of the Fermilab web site:**

(most useful for interested visitors)

**Search the entire Fermilab web site:**

(most useful for staff and scientists)

[Help Questions?](#)

last modified 4/23/2004 [email Fermilab](#)

[Security](#), [Privacy](#), [Legal](#)



## Other Outreach

### Working with Computer Science Departments at local universities

- DePaul - Accelerator Simulation, SAMGrid education
- Northwestern University - CCF - Advanced Networking
- University of Wisconsin Madison - SAMGrid, US CMS, - grid middleware and services
- IIT - software performance measurements and metric for simulation codes
- Virginia Tech (not so local) - US CMS - grid authorization

Working with the Education Office on their programs on Quarknet-Grid has the attention of the NSF who is hoping to stimulate E-Labs for the schools

### GP's Long Range Outreach

- DuPage Technology Park
- Taiwan High Performance Computing Center and Neutron Therapy initiative.

Some of you know have other contacts and opportunities. We would very much like to hear about them and explore how they might be more included in the Divisions outward looking programs.

## Coordination of Grid Projects - community partnerships

### PPDG

- DO, CMS, BaBar, JLAB, BaBar, STAR,
- Computer Science - Globus, Condor, SRM, SRB
- Just been funded for the next 2 years June 2004-2006
- I do not know the fate of additional funding for CDF, Phenix

### Trillium

- GriPhyN, iVDGL as well as PPDG

### GGF

- Physics Applications Research Group - gives us a forum and place to present our work

# PPDG D0 News Item

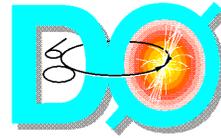
D0 SAMGrid d0db.fnal.gov/sam/

26th April 2004

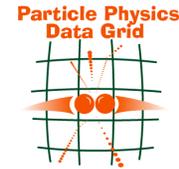
## D0 Remote Reprocessing.

D0 has successfully reprocessed over 500 million events using a distributed system that included grid tools and tested grid functionality

News Update – 26th April 2004



D0 Experiment



Particle Physics Data Grid

The D0 experiment has repeated the reconstruction of all its recorded data to create a homogeneous dataset for physics analysis based on an up to date understanding of the detector. To finalise this effort in time for the winter conferences new computing resources had to be exploited. D0 therefore performed the task in a fully distributed manner utilising 6 computing centres in 6 countries, using its computing software SAMGrid to distribute the data and retrieve the reprocessed data for storage.

The data were for the most part transmitted using Grid file transfer protocols, and some of the centers used Grid management tools provided by PPDG effort.

## Overview

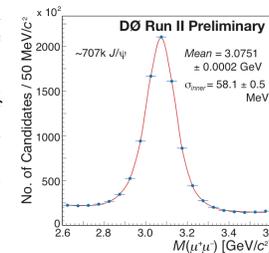
D0 has been steadily using and further developing its distributed data handling system Sequential Access using Metadata (SAM) for simulation monte-carlo data creation and processing before the start of data taking, and for data acquisition, processing and analysis of data acquired from the Tevatron over the last two years.

During the months of November 2003 – January 2004 a reprocessing of the complete dataset has been done. Twenty percent of the 500 million events were reprocessed using non-Fermilab computing resources, with the input and output processed event data being transmitted using GridFTP.

The success of the reprocessing project meant that physics results using improved reconstruction were completed in time for the Moriond and Lathuile conferences in March.

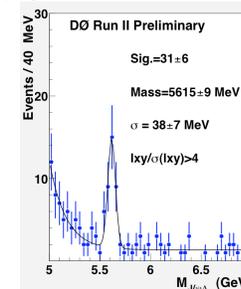
The plots show data samples which have improved as a result of using the newer reconstruction version. The alignment of the detector was improved significantly in the reprocessed data, leading to improved resolution in samples like the  $J/\Psi$  mass plot shown in the first plot below.

The well-known resonances like the  $J/\Psi$  are important both in the calibration of the detector and for a wide range of B physics studies.



The second plot below shows the detection of a signal for the  $\Lambda_b$  decaying to  $\Lambda$  and  $J/\Psi$ .

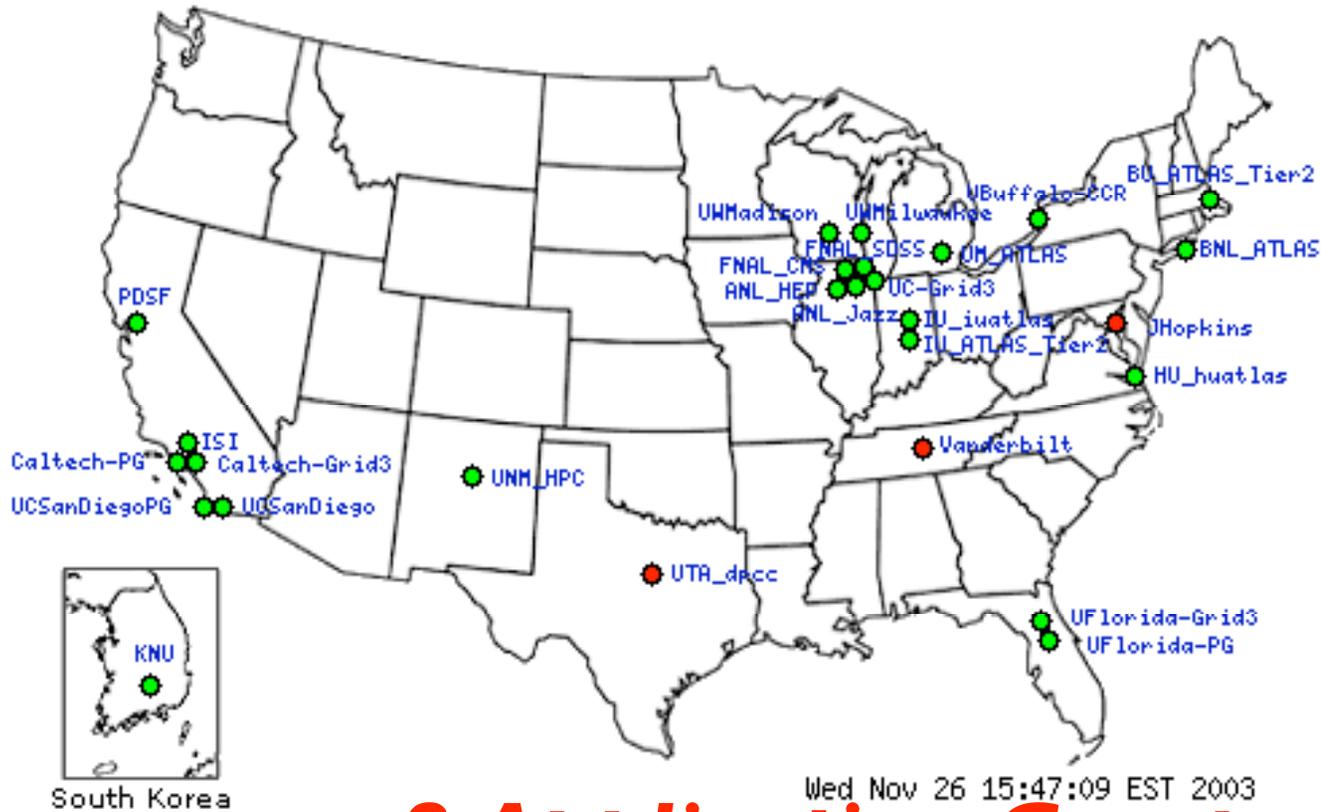
Clearly, the second aspect of the improved reconstruction, higher efficiency for track detection, is important in the detection of samples with small statistics in the present data set. The study of the  $\Lambda_b$  lifetime, once more statistics have been accumulated, will be an important contribution to understanding whether the current theoretical predictions regarding the lifetimes of B baryons compared with B mesons are correct (current experimental results show some discrepancies).



## Data Transfer with GridFTP

Over 50 Terabytes of event data were transported with GridFTP into and out of the central mass storage system at Fermilab by the reprocessing effort. Tens of Terabytes have been transmitted for simulation and offsite analysis (there are more than

US LHC S&C, Trillium Joint Project 2003:  
Grid2003 - an Application Grid of Existing Resources  
Staying alive today



**8 Application Groups**  
**4 Virtual Organizations**  
**26 sites, 2500 CPUs**

Today's tally...

Please Run II no laughing..

CMS has finished DC04 so use has ramped down

Multiple use now starting to slowly grow

**Subject: [grid3-status] Grid3+ activity, May 7, 2004, 5:05 EST**  
**CPU\*hours used by each VO at each Site in the last day (May 7, 2004, 5:05 EST)**

<b>BNL_ATLAS</b>	<b>4.6</b>		
<b>BU_ATLAS_Tier2</b>	<b>7.5</b>	<b>ATLAS</b>	<b>47.1</b>
<b>Caltech-Grid3</b>	<b>229.8</b>	<b>BTeV</b>	<b>1.1</b>
<b>Caltech-PG</b>	<b>3095.2</b>	<b>iVDgL</b>	<b>173.7</b>
<b>FNAL_CMS</b>	<b>1707.9</b>	<b>LIGO</b>	<b>0.0</b>
<b>IU_ATLAS_Tier2</b>	<b>2.8</b>	<b>SDSS</b>	<b>422.5</b>
<b>KNU</b>	<b>0.1</b>	<b>USCMS</b>	<b>1883.6</b>
<b>pdsf</b>	<b>9.8</b>		
<b>Rice-Grid3</b>	<b>0.1</b>		
<b>Vanderbilt</b>	<b>0.0</b>		

**Grand Total = 7247.0**

## Open Science Grid

A National Production Grid Infrastructure for the Nations Scientists  
a Grid for Science that is Open to Partnerships  
...cf Open Source Software

An inclusive long term consortium with a short term practical challenging goal

The Common US production grid for US CMS and US ATLAS by 2007,  
and hopefully much more.

Sustain and evolve for broader physics analysis through 2012

?2015 will it be "just" part of our production network infrastructure ?

Vicky and Lothar have the Vision.

Many of us will help to realise it.

# Open Science Grid - a national roadmap



Welcome to the Open Science Grid

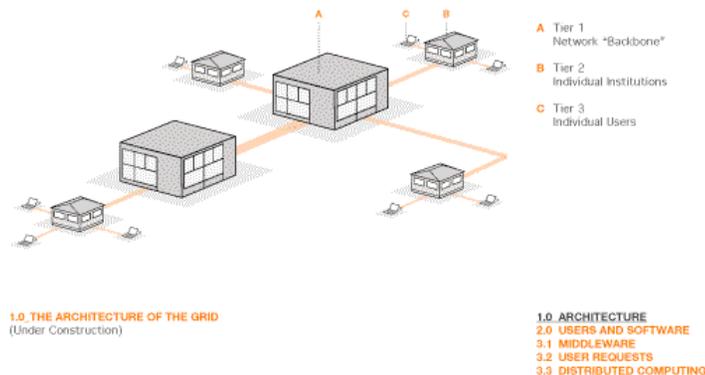
## Building a national grid infrastructure for science -- under construction

Scientific research today is facing profound technical challenges. Much research, most notably high energy physics research, is conducted in dynamic, scalable, multi-institutional, computationally and data-rich settings. The Large Hadron Collider (LHC) at CERN in Geneva, Switzerland, when it turns on in 2007, will produce the highest energy particles ever seen on this planet and at a rate  $x$  times faster than currently running particle accelerators. It will support two multi-purpose detectors, ATLAS (A Toroidal LHC Apparatus) and CMS (Compact Muon Solenoid). Each of which will produce unprecedented volumes of data. This data requires extremely large computing resources and reliable throughputs. Each year, data is produced from 150 institutions and almost all of it is sent to the data centers. Only the globally distributed Open Science Grid adopted will enable this science.



How the Open Science Grid Works

### How Grids Work



Address questions and comments to [cdweb@opensciencegrid.org](mailto:cdweb@opensciencegrid.org)  
Security, Privacy, Legal

Revision history:  
Date, AH

HOME

ABOUT THE OSG

HOW THE OSG WORKS

PROJECT OFFICE

EVENTS

RELATED LINKS

Of the scientists participating in the LHC, only a small fraction are U.S. citizens. The Open Science Grid is a project of the U.S. Department of Energy, in accordance with the National Science Foundation's policy to take full part in the breakthrough science of the 21st century.

The OSG program of work was initiated in 2001 at U.S. universities and DOE laboratories. In addition to supporting LHC and other particle physics experiments, the OSG also supports broader U.S. scientific community needs, such as the Energy Research Supercomputing Center's grid projects to meet the need for high performance computing.

The Open Science Grid is an acronym for a multi-virtual organization that has sustained a multi-virtual organization for several months. It supports physics experiments, the Sloan Digital Sky Survey, the search experiment LIGO, the molecular structure analysis project, and other projects in such areas as job a

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RELATED LINKS

How Grids Work

Grid Terminology

Overview of Technologies

Current OSG Site Status

## Open Science Grid near term futures

### Together with many people:

- Write pre(pre) proposal white paper
- Formulate short term work plans
- Prepare for planning meeting at U of Chicago 20/21st May
- Continue to talk to potential partners
- Work with LCG
- Finish new version of the web site
- Participate in Judy Jacksons Grid Communication Group
- ...