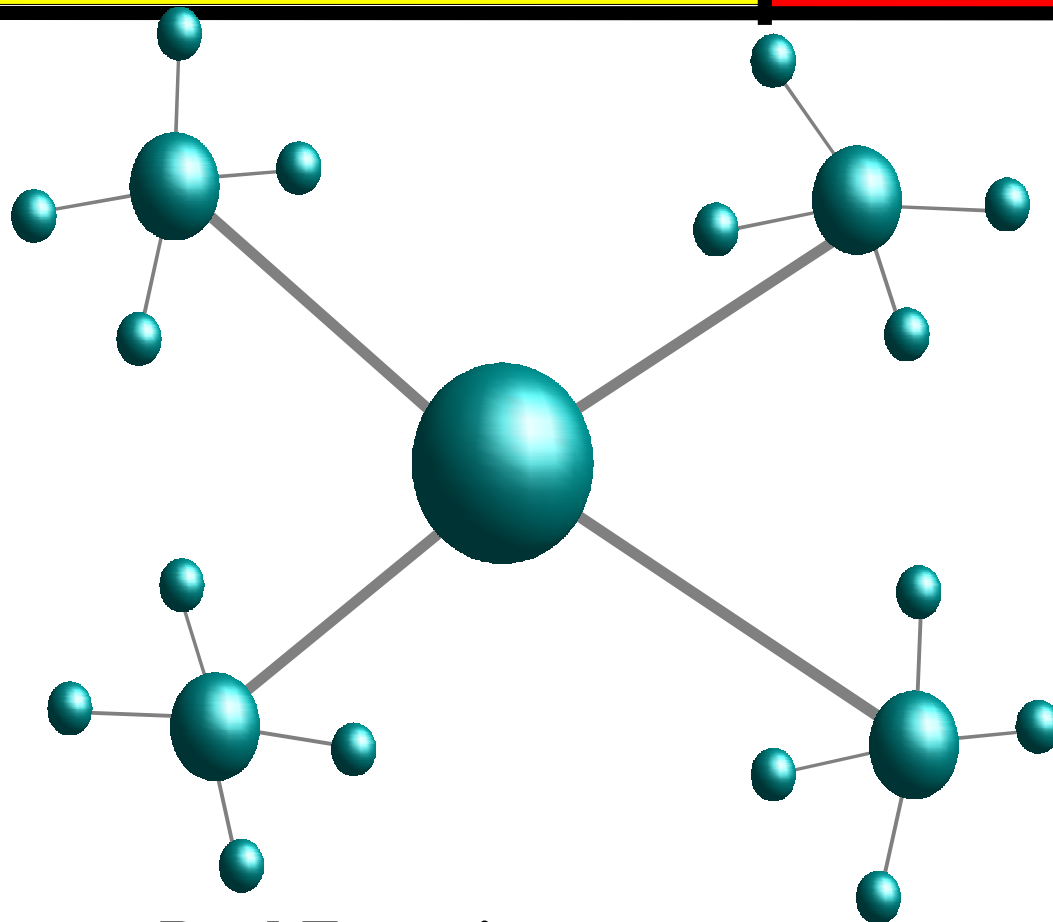
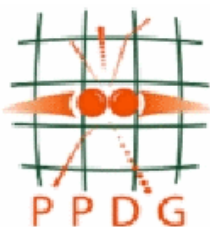


CLAS Simulations Grid & Portal Prototype



Paul Eugenio
Florida State University

Grid Computing in a Nutshell

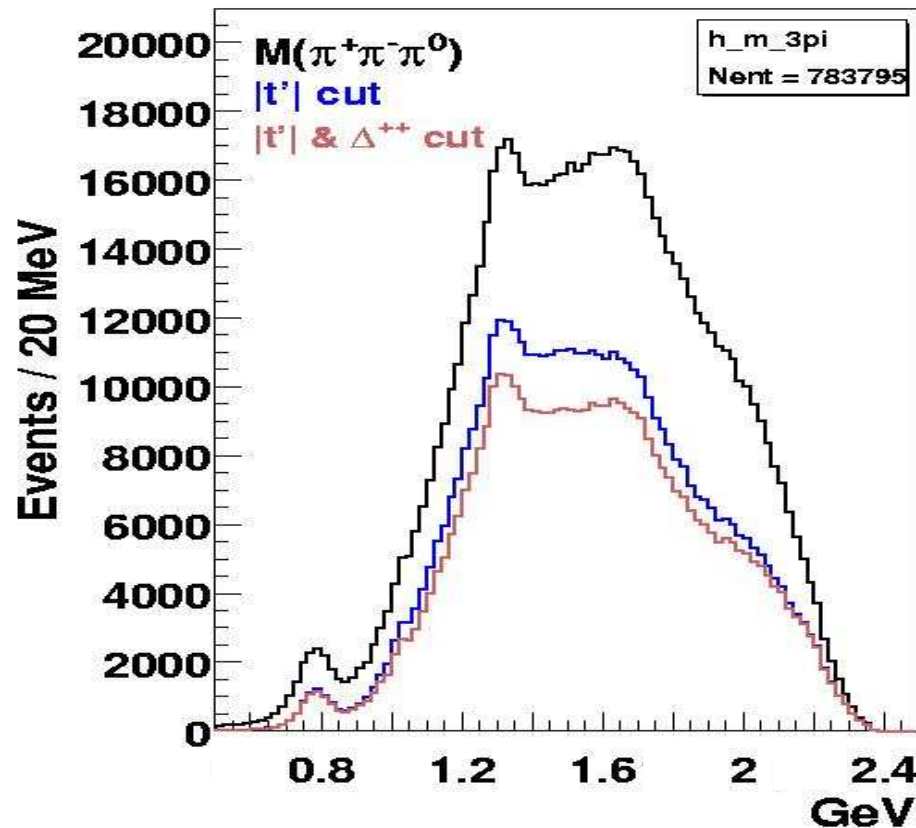
- The Data Grid
 - A Global File System
 - We are not there..
 - JLab SRM tools are a start..
- Computing Grid
 - Global Farm
 - Needs a Data Grid

CLAS Monte Carlo for PWA

CLAS g6^c



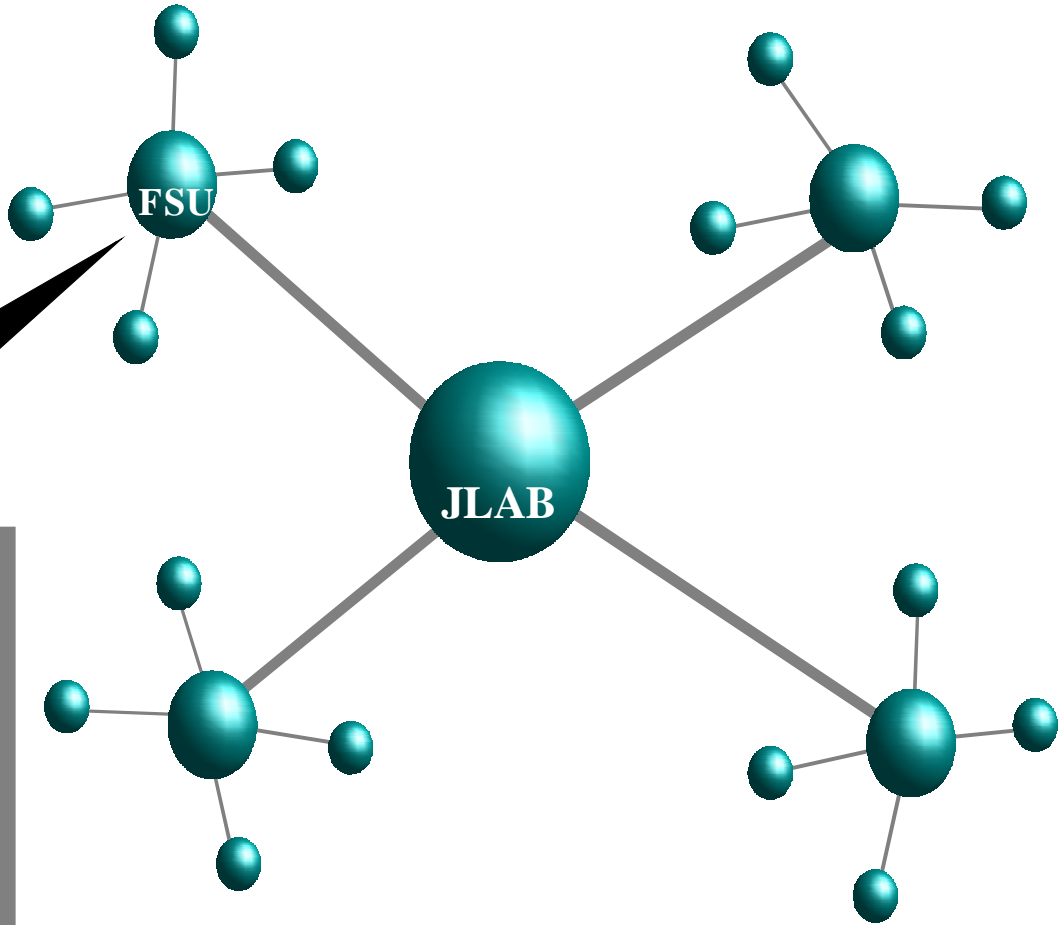
4.5-5.5 GeV/c beam

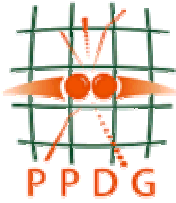


Simulation Needs

- 30 MEvents Processed
 - ♦ 1 Month to 1 yr @ Jlab
 - ♦ 1 Week on 1/2 mcgrid

Clusters and Grid Nodes





Particle Physics Data Grid Tools

- [Authentication & Authorization](#)
 - DOE Science Grid Certificates
- [JLab-SRM](#)
 - web services based **S**torage **R**esource **M**anagement software
 - remote access to the jasmine storage system(site disk and silo management)
 - Uses GridFTP
- [Globus Job Submission](#)
 - tested, but not in current use
- [Portal Job Submission & Accounting](#)

MCGRID PORTAL

Name	Owner	State	ID
job1480.1	liji@npgrid.fsu.edu	RUNNING	46194.npgrid.fsu.edu
job1560.1	liji@npgrid.fsu.edu	RUNNING	46195.npgrid.fsu.edu
job1720.1	liji@npgrid.fsu.edu	RUNNING	46197.npgrid.fsu.edu
job1640.2	liji@npgrid.fsu.edu	RUNNING	46205.npgrid.fsu.edu
job1480.3	liji@npgrid.fsu.edu	RUNNING	46212.npgrid.fsu.edu
job1720.3	liji@npgrid.fsu.edu	RUNNING	46215.npgrid.fsu.edu
job1480.4	liji@npgrid.fsu.edu	RUNNING	46221.npgrid.fsu.edu
job1560.4	liji@npgrid.fsu.edu	RUNNING	46222.npgrid.fsu.edu
job1640.4	liji@npgrid.fsu.edu	RUNNING	46223.npgrid.fsu.edu
job1720.4	liji@npgrid.fsu.edu	RUNNING	46224.npgrid.fsu.edu

Instance Attribute Example
Config ID: 808, Portlet ID: 808, Page ID: anon/en/html/default.psm1, Brazil

Instance Attribute Example
Config ID: 809, Portlet ID: 809, Page ID: anon/en/html/default.psm1, Germany

Jetspeed Documentation
An Open Source Enterprise Information Portal.



- **Jetspeed 1.4 Beta 3 Released**
Jetspeed v1.4 Beta 3 is available.
- **Jetspeed Documentation**
Jetspeed is an Open Source implementation of an Enterprise Information Portal. Jetspeed attempts to consume information from multiple resources on the Internet and helps the




For details, see *Grid Computing for Physics Environment*, M.S. thesis, Josh Hone, FSU (2003)

MCGRID PORTAL SUBMISSIONS

Jakarta Jetspeed Portal: Default Jetspeed page - Konqueror

Location: <http://hnpux3.physics.fsu.edu/hnpuxp/>

Mathematical, Info...Computing Research Notice 02-16 Index of /files/ap....0/en/i386/RPMS.ms dvd:rip - A full ...x, written in Perl Exploratorium: Scienc >>



<http://hnpux3.physics.fsu.edu/hnpuxp/>

Welcome to Jetspeed

Welcome Paul Eugenio
Customize: HTML WML
Edit account: eugenio
Logout

Home **Home** mcgrid World Connection Technology

Documentation GSIM+SRM on the Grid

API

This is a general grid enabled interface for GSIM, GPP, & A1C. Many more features, including documentation, workflow, history, and replication of jobs to come soon.

email

Input path on JLab cache file system

GSIM

ffread file

input filelist file

options

GPP apply y/n
options

A1C apply y/n
options

Apache Jetspeed Portal - Version 1.4-b3
© Apache Software Foundation 1999-2002

[Support and Additional Information](#)



Present Plans



- Small Group Deployment
 - 1-2 weeks
- Collaboration Wide Deployment
 - 2-4 weeks

<http://hnpux3.physics.fsu.edu/hnpuxp/>