LIGO Laboratory at Caltech

• University of Wisconsin at Milwaukee » 4 investigators (not funded by iVDGL) + new hires

• The Pennsylvania State University » 1 investigator (not funded by iVDGL) + new hires

• Caltech » 2 investigators (not funded by iVDGL)

• University of Wisconsin at Milwaukee
LIGO Scientific Collaboration (LSC)

• iVDGL Organization Working Group Participation

• iVDGL Plan

LIGO Scientific Collaboration (LSC)
LIGO Scientific Collaboration (LSC)

Two Tier 2 centers

- University of Wisconsin Milwaukee
- Pennsylvanian State University
- 1 PPARC Fellow for CS support
- 2 FTE for Applications Integration: GRAS+Postdocs
- 0.2 FTE for IT support (+ PSU contributed IT FTE support)
- New Tier 2 center
- New Physics Frontier Center for Phenomenological Gravitational Wave

0 FTEs presently hired
- Data Analysis
- Grant
- Builds on existing 290 node cluster funded through previous NSF MRI
Will participate in iVDGL/iGOC activities as requested:

- Computing Conference demonstration projects
- Targets of next implementation of LIGO-GiraphN Apps after Super
- Monte Carlo simulations
- Algorithm validation/testing on data subsets prior to production
- Asynchronous jobs
- Used for tasks requiring either LDA5 MPI-based analysis or Condor-G
- Augments LIGO laboratory capabilities
- Searches
- Grid-based analysis of LIGO data for computationally intensive
- Data mirror for key datasets to offload LIGO Laboratory Tier 1

LSC Tier 2 centers will be used for:

LIGO Plan
LIGO Scientific Collaboration (LSC)
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Long Range Planning

First meeting scheduled for 15 January 2002 - establish agenda, priorities.
Repsentation by LIGO Lab, Tier 2 centers, & user institutions.

Issues

LSC has formed a Computing Committee to address collaboration.

- Integration/Interoperability to the existing LIGO software suite (LDS).
- Support at Tier 2 centers for the development of grid tools and their implementation.
- There are no FTEs within LIGO dedicated to grid computing implementation.
- LSC needs CS support at 2 PPARC sites - one per site.
- PSU Tier 2 center is shared and additional UWM resources installed.
- Grid computing requirements not defined by the collaboration -- needed before allocation, etc.
- Collaboration needs to define Internal plan for Tier 2 center usage resource.

Concerns

LIGO Plan