

USQCD regional grid

Report to ILDG 15
04 December 2009

US Grid Usage

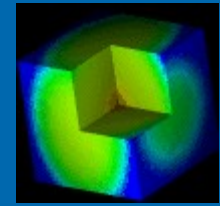
- Fermilab repository contains about 29,200 configurations in ILDG format (MILC and anisotropic clover).
- Configurations accessible to members of the “ILDG” VO (read only) and the “LQCD” VO (read/write).
- **Most consumers of the US lattices do not use the ILDG infrastructure.**

US infrastructure

- ILDG Metadata and file catalogs located at Jlab.
- Single storage element is a Fermilab dCache / Enstore tape system.
- ILDG portal
<http://usqcd.jlab.org/mdc-web-client>
- Info page <http://www.usqcd.org/ildg/>
- Monitoring <http://www.sapac.edu.au/inca>



Gauge Connection



Web portal for sharing MILC gauge configurations.

- <http://qcd.nersc.gov/>
- Managed by Jim Hetrick (MILC).
- Gauge archive file format predating ILDG.

NERSC will transform the GC into a “Science Gateway” useful to LQCD scientists.

<http://www.nersc.gov/nusers/services/Grid/SG/sg.php>

Gauge Connection Status

- Servers upgraded
- Disk storage expanded to 100 TB
- Old web interface still in use
- Not yet integrated into ILDG
 - Upload and downloads via grid tools
 - File catalog replication / ILDG search portal
 - Replication of files stored elsewhere

Jim Hetrick seeks help adapt existing ILDG software.