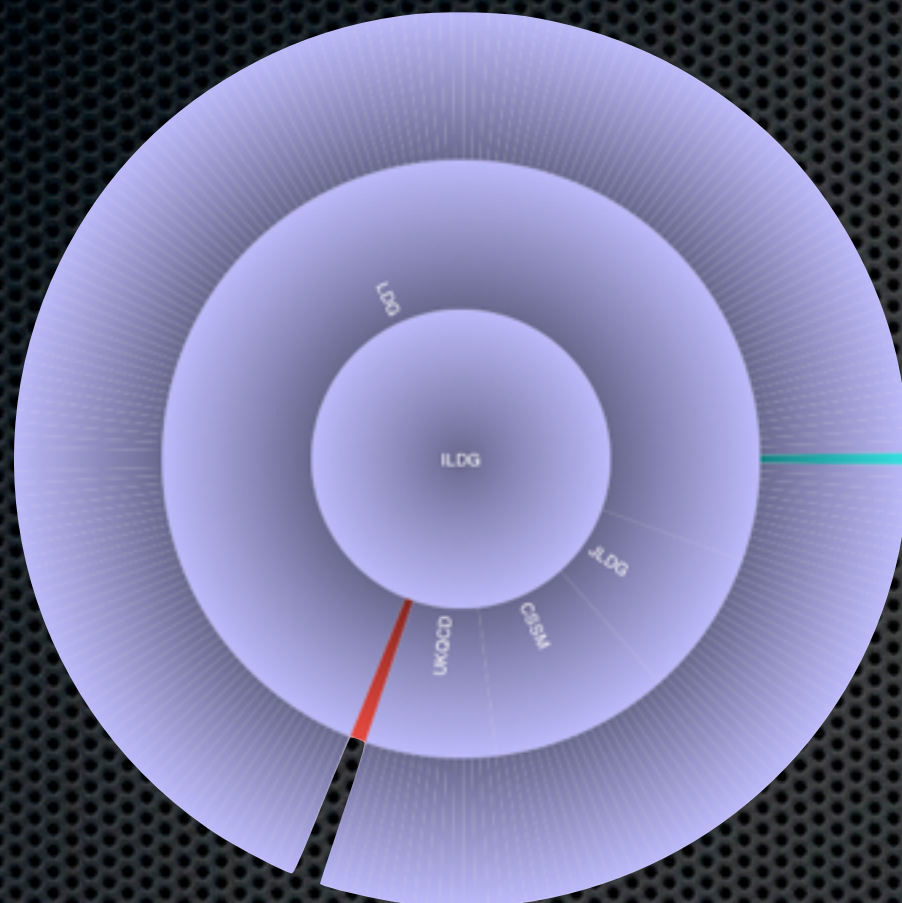


USQCD regional grid report

16 September 2011

ILDG/US



~42000 gauge configs

- MILC asqtad
- HISQ
- Nf=2 anisotropic clover
- RBC-UKQCD DW

Format

- ILDG

Access

- read-only (ILDG)
- read-write (LQCD)

Locations

- metadata@jlab (B. Joo)
- data@fnal (J.Simone)

<http://usqcd.jlab.org/mdc-web-client>

<http://www.usqcd.org/ildg/>

Fun facts

- ✦ Total direct US **funding level for ILDG activities: \$0**
- ✦ ILDG activities funded out of USQCD or lab budgets
- ✦ Effort depends upon very small number of volunteers
- ✦ SciDAC proposals do not mention ILDG and the program **only funds software development**
- ✦ Most consumers of the US lattices do not use the ILDG infrastructure

NERSC



<http://qcd.nersc.gov>

<http://www.nersc.gov/users/science-gateways/>

~44352 gauge configs

- 43298 from MILC asqtad copied from FNAL

Access

- read-only (web based)
- read-write (gridftp)

Location

- Lawrence Berkeley Lab

People

- Managed by J. Hetrick
- Developed by M. DiPierro

Storage

- HPSS (tape)

Format

- NERSC (similar to MILC)

Working on integration

Logout The Gauge Connection @ NERSC.gov Home

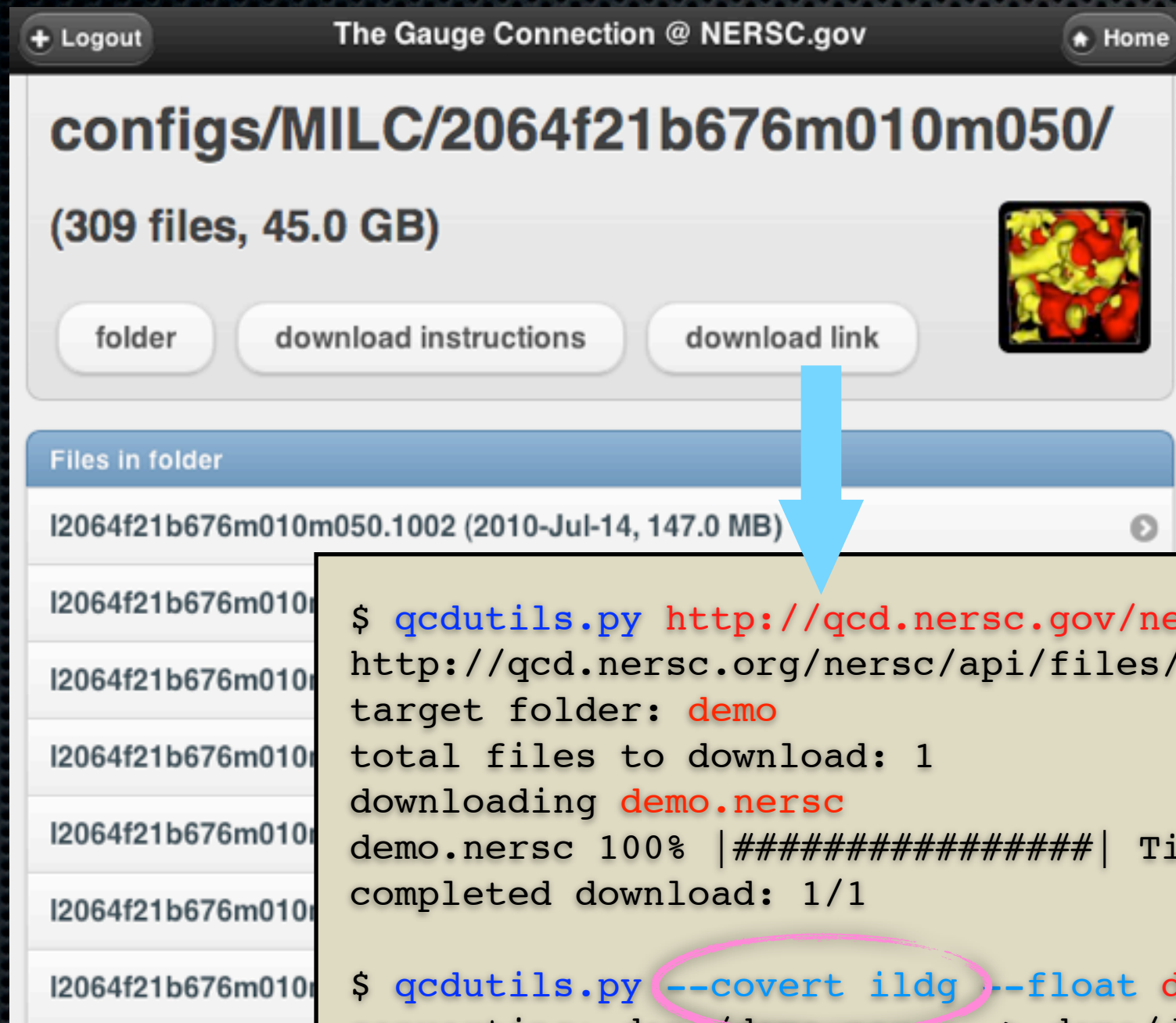
configs/MILC/2064f21b676m010m050/

(309 files, 45.0 GB)

folder download instructions download link

Files in folder

- I2064f21b676m010m050.1002 (2010-Jul-14, 147.0 MB)
- I2064f21b676m010m050.1003 (2010-Jul-14, 147.0 MB)
- I2064f21b676m010m050.1004 (2010-Jul-14, 147.0 MB)
- I2064f21b676m010m050.1005 (2010-Jul-14, 147.0 MB)
- I2064f21b676m010m050.1006 (2010-Jul-14, 147.0 MB)
- I2064f21b676m010m050.1007 (2010-Jul-14, 147.0 MB)



```
$ qcdutils.py http://qcd.nersc.gov/nersc/api/files/demo
http://qcd.nersc.org/nersc/api/files/demo
target folder: demo
total files to download: 1
downloading demo.nersc
demo.nersc 100% |#####| Time: 00:00:00 654.52 K/s
completed download: 1/1

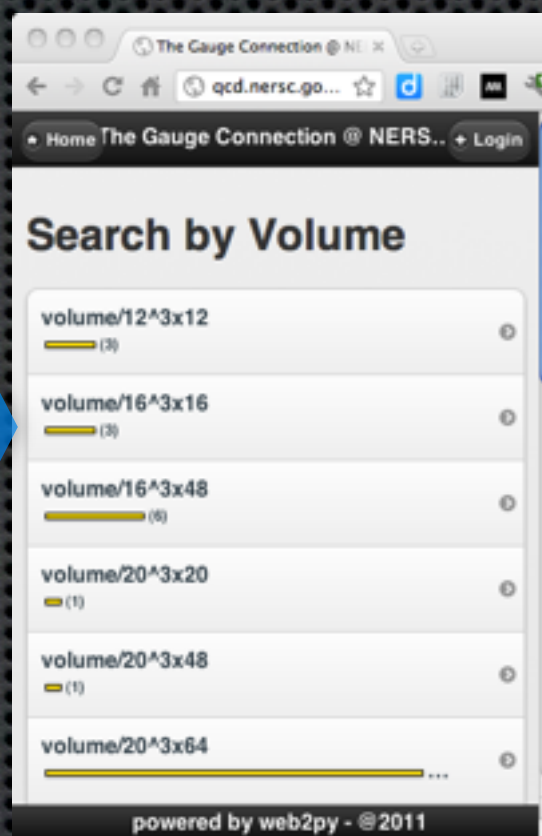
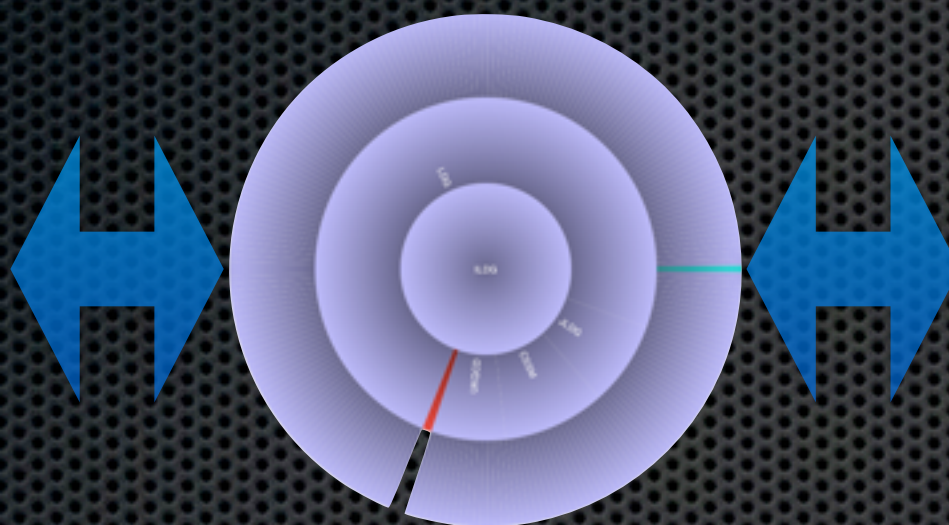
$ qcdutils.py --covert ildg --float demo/demo.nersc
converting: demo/demo.nersc -> demo/demo.nersc.ildg
(precision: f, size: 4x8x8x8)
100% |#####|
```


Possible future?

ILDG

NERSC

Grid
Tools
(Java)



Browser
curl/wget
(Python)

Protocols:
SOAP
XML
X.509

Protocols:
REST
JSON
OpenID

proxy?

increase usability and access