

2017 CIG-LLNL Computational Seismology Tutorial

Instructions

ObsPy and InstaSeis Tutorial

Instructions for this tutorial are on [github](#).

SPECFEM Tutorial

Instructions for this tutorial are on [github](#).

SW4 Tutorial

IRIS Data Brick

Using the IRIS Data Brick at the workshop.

Many of the common FDSN web service clients allow setting the specific service locations. For this workshop the service is at:

<http://10.200.65.174:8080/fdsnws/dataselect/1> (IP likely changing each day, updates will be posted) or

<http://iris-dbserver.local:8080/fdsnws/dataselect/1> (.local not consistently working)

What is on the data brick? Use the 'summary' endpoint:

<http://10.200.65.174:8080/fdsnws/dataselect/1/summary>

Using with ObsPy

```
from obspy.clients.fdsn import Client
client = Client("IRIS", service_mappings={
    'dataselect': 'http://10.200.65.174:8080/fdsnws/dataselect/1'})
```

Using with FetchData

```
$ FetchData -timeseriesws http://10.200.65.174:8080/fdsnws/dataselect/
1
    <data selection options here>
```

LVOC

Orientation pdf

Wifi

Network: LVOC Guest.

Logins are assigned.

Login

```
ssh -X -l class22 quartz.llnl.gov  
ssh -Y -l class22 quartz.llnl.gov
```

password is enter your 8 character static PIN plus the six digits on the RSA token with no spaces.

Directories

Home directory: /g/g13/{username}

for example: /g/g13/class22

Scratch space directory: /p/lscratchh/{username}

Global read only directories:

```
/usr/apps/cigdata  
/usr/apps/specfem  
/usr/apps/sw4
```

Useful Commands

Change directory to scratch space directory:

```
cd /p/lscratchh/{username}
```

We will run on the pReserved partion. Use the flag:

```
-p pReserved
```

```
srun -N4 -p pReserved myjob  
sbatch -p pReserved jobscript
```

List all jobs:

```
squeue
```

List jobs for username:

```
squeue -u username
```

Show all details for a selected job:

```
checkjob jobid
```

Show job partitions:

```
sinfo -s
```

Cancel selected job(s):

```
scancel jobid(s)
```

Modules

To see what is available:

```
module avail
```

To load a package:

```
module load packagename
```

Text editors

- vi/vim
- emacs
- nedit
- gedit
- nano