

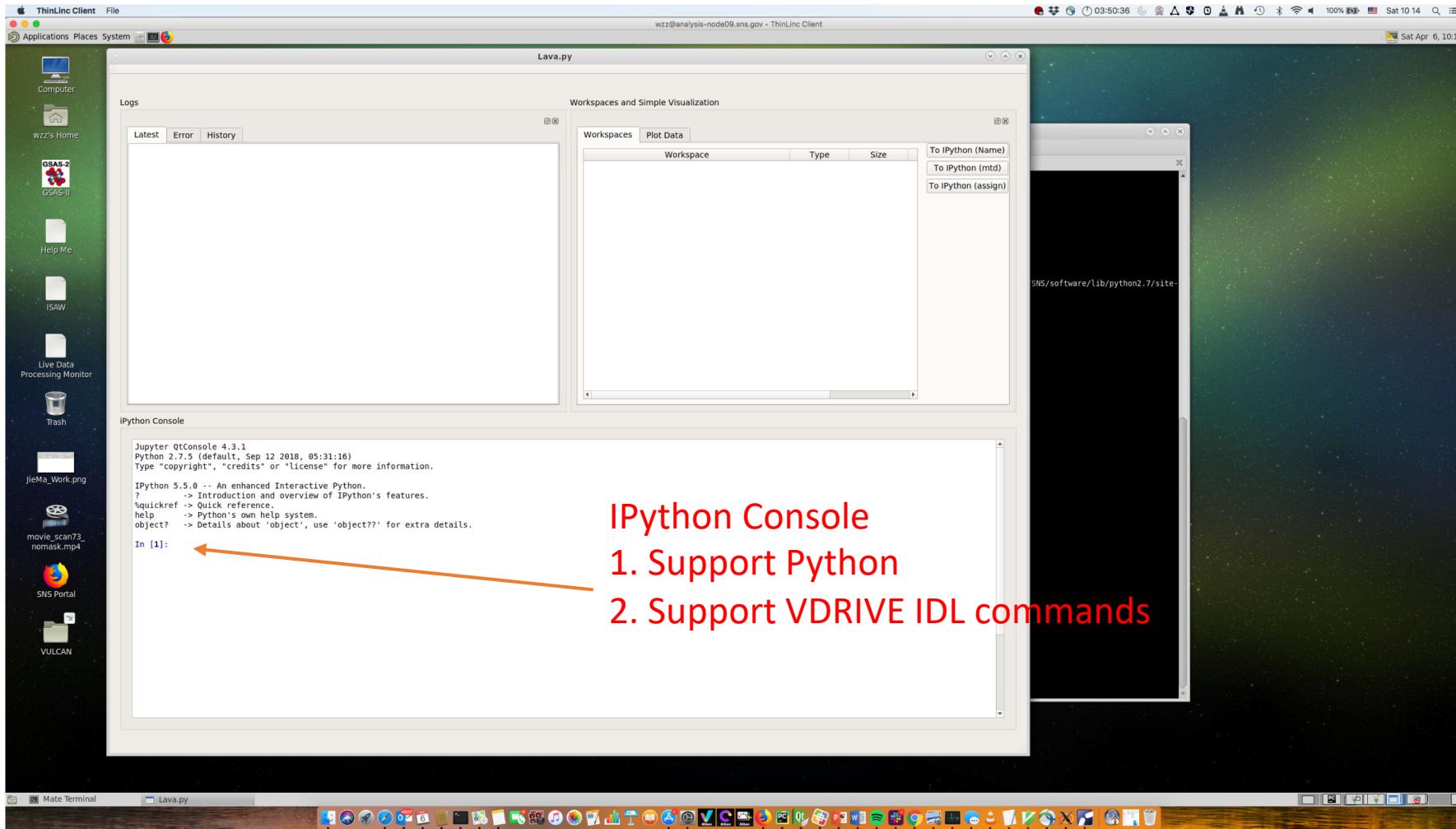
PyVDrive Quickstart

(Cheat Sheet)

Starting PyVDrive

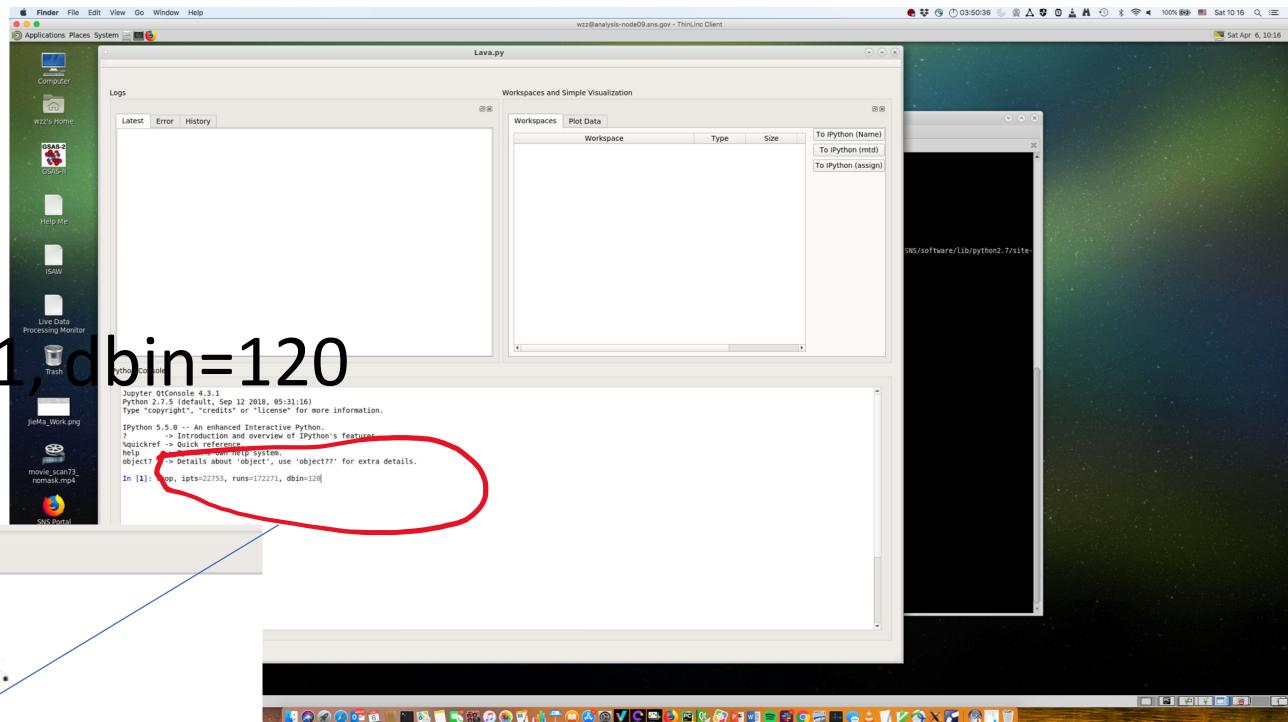
- In terminal, enter
> vulcan.lava
- PyVDrive command UI will be launched (see next page)

PyVDrive Command UI



Example: Chop data

- Command "CHOP">
> chop, ipts=22753, runs=172271, dbin=120



Jupyter QtConsole 4.3.1
Python 2.7.5 (default, Sep 12 2018, 05:31:16)
Type "copyright", "credits" or "license" for more information.

IPython 5.5.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' fo

In [1]: chop, ipts=22753, runs=172271, dbin=120

VDRIVE command chop is executed successfully (CHOP command preparation: 0.00118708610535 seconds
Run 172271: duration = 251.754523993: IPTS-22753 Run 172271 is chopped, reduced (?:/SNS/VULCAN/IPTS-22753/share
binned_data/172271

Output GSAS: 1.gda - 501.gda
Warning: None

Execution time = 251.756348848 seconds).
Out[1]: 'Run: chop, ipts=22753, runs=172271, dbin=120'

In [2]: |

Example: View Chopped Data

- View 2nd slice
> view, ipts=22753, choprun=172271, runs=2

```
In [1]: "Run: chop, ipts=22753, runs=172271, dbin=120"
```

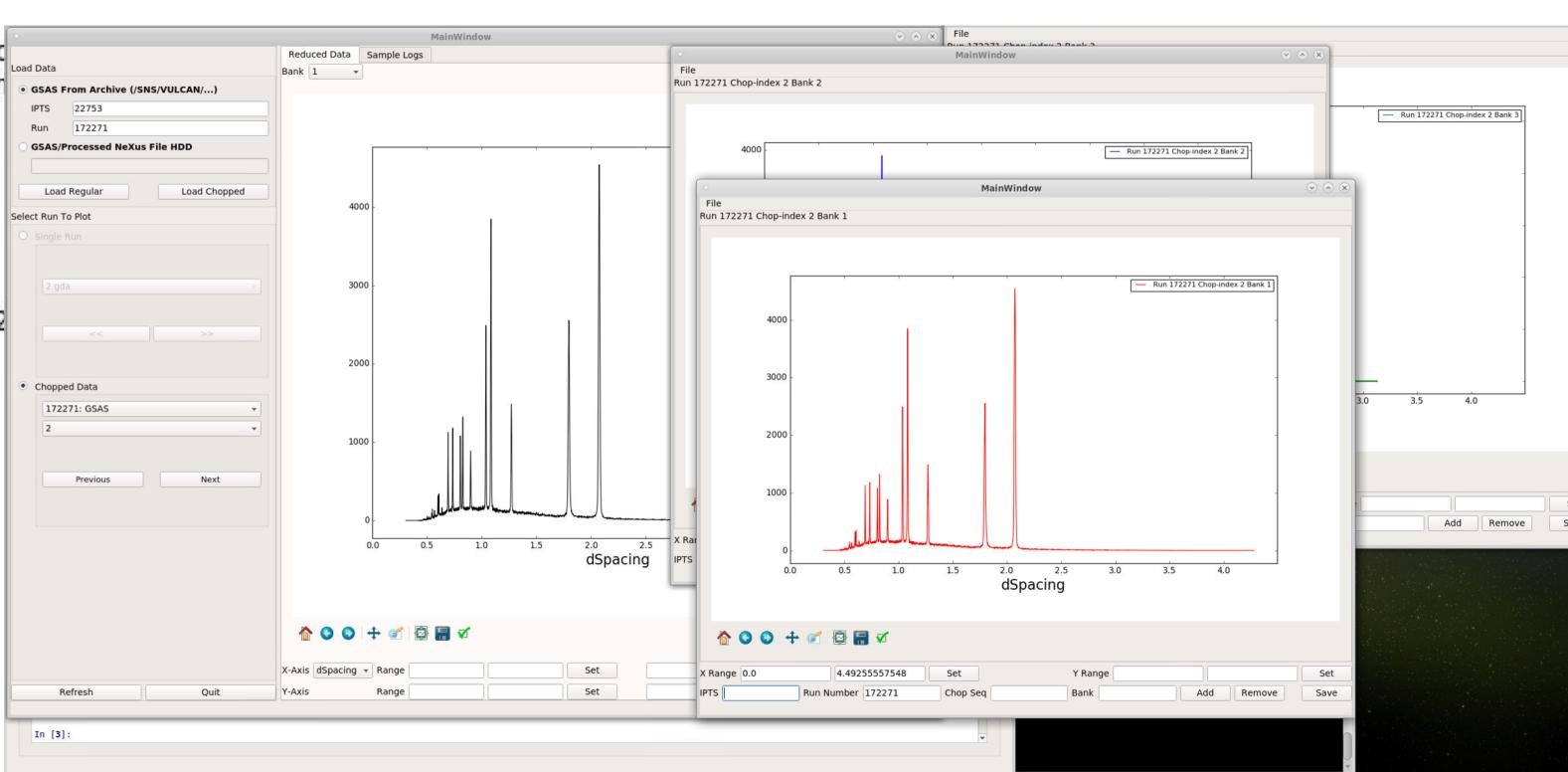
```
VDRIVE command chop is executed successfully (CHOP command)
Run 172271: duration = 251.754523993: IPTS-22753 Run 172271
binned_data/172271
```

```
Output GSAS: 1.gda - 501.gda
Warning: None
```

```
Execution time = 251.756348848 seconds).
```

```
Out[1]: 'Run: chop, ipts=22753, runs=172271, dbin=120'
```

```
In [2]: view, ipts=22753, choprun=172271, runs=2
```



Example: View Chopped Data (2)

- View all the sliced and reduced runs
> view, ipts=22753, choprun=172271, runs=1, rue=501
- 3 windows will be popped out for contour view for each bank
- 3 windows will be popped out for single run diffraction pattern

```
Output GSAS: 1.gda - 501.gda
Warning: None
```

```
Execution time = 251.756348848 seconds).
```

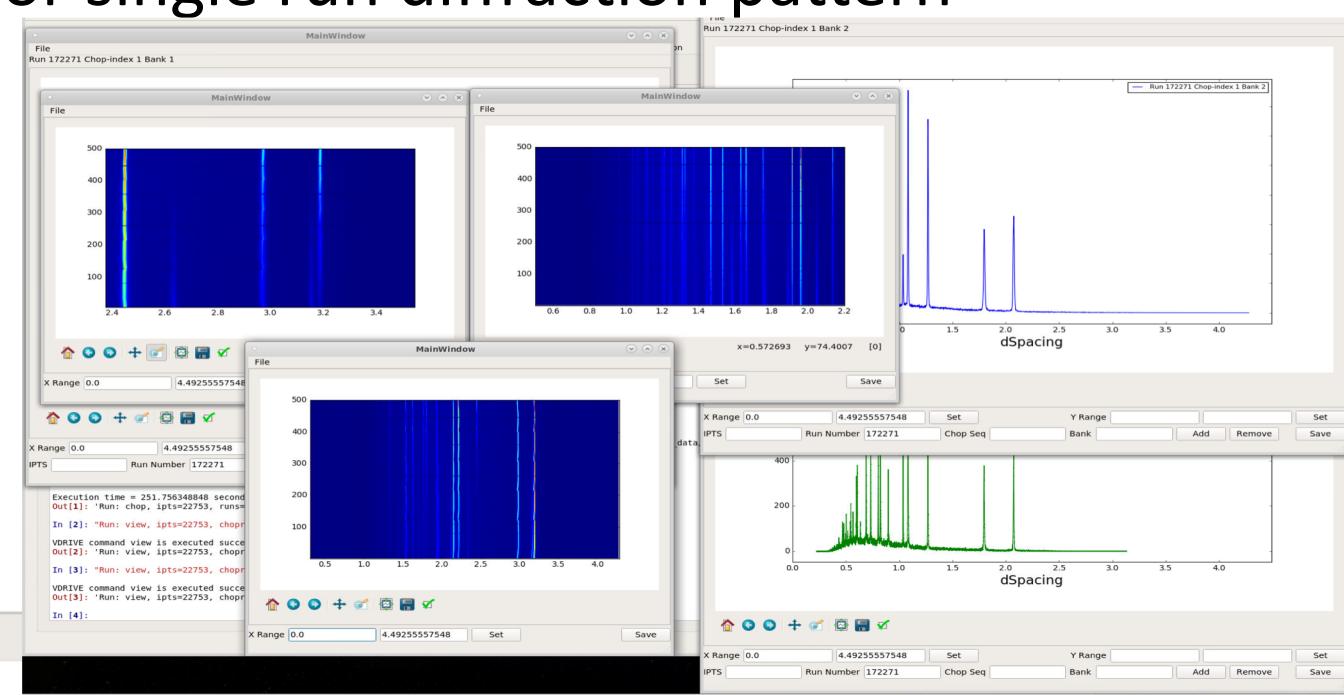
```
Out[1]: 'Run: chop, ipts=22753, runs=172271, dbin=120'
```

```
In [2]: "Run: view, ipts=22753, choprun=172271, runs=2"
```

```
VDRIVE command view is executed successfully ().
```

```
Out[2]: 'Run: view, ipts=22753, choprun=172271, runs=2'
```

```
In [3]: view, ipts=22753, choprun=172271, runs=1, rune=501
```



Example: Merge runs

- Merge 2 runs together and save the data to first run
> merge, ipts=22753, runlist=172360 & 172362

```
In [3]: "Run: view, ipts=22753, choprun=172271, runs=1, rune=501"
```

VDRIVE command view is executed successfully ().

```
Out[3]: 'Run: view, ipts=22753, choprun=172271, runs=1, rune=501'
```

```
In [4]: merge, ipts=22753, runlist=172360 & 172362
```

```
In [4]: "Run: merge, ipts=22753, runlist=172360 & 172362"
```

VDRIVE command merge is executed successfully ([INFO] For 172360:
[INFO] For 172362:
).

```
Out[4]: 'Run: merge, ipts=22753, runlist=172360 & 172362'
```

```
In [5]: |
```

Example: Visualize the merged run

- Use VIEW command for chopped run
> view, ipts=22753, choprun=172360, runs=1

```
In [4]: "Run: merge, ipts=22753, runlist=172360
```

```
VDRIVE command merge is executed successfully ([  
[INFO] For 172362:  
).
```

```
Out[4]: 'Run: merge, ipts=22753, runlist=172360
```

```
In [5]: view, ipts=22753, choprun=172360, runs=1
```

