What is running on cluster, where? interpreting slurmtop

<table>
<thead>
<tr>
<th>Quick Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPC Home</td>
</tr>
<tr>
<td>Getting an account</td>
</tr>
<tr>
<td>Getting started on Prince</td>
</tr>
<tr>
<td>Prince How-to Articles</td>
</tr>
<tr>
<td>Logging in</td>
</tr>
<tr>
<td>Windows</td>
</tr>
<tr>
<td>Mac / Linux</td>
</tr>
<tr>
<td>Clusters and Storage</td>
</tr>
<tr>
<td>Prince (HPC)</td>
</tr>
<tr>
<td>Dumbo (Hadoop)</td>
</tr>
<tr>
<td>Brooklyn (OpenStack)</td>
</tr>
<tr>
<td>Dalm a (NYU Abu Dhabi)</td>
</tr>
</tbody>
</table>
Transferri
g data
to/from
the
custers
Transferri
g data
to/from
Prince
custer
using
Globus
Submittin
g jobs
with
sbatch
Available
software
Licensed
Software
Available
on the
HPC
Cluster
Building
Software
Slurm
Tutorial
Tutorials
FAQs
Scratch
Area
Cleanup
Program
ming for
Biologist
s
Acknowle
dge
Statement
Research
Gallery
HPC
People
Running jobs on the Prince Cluster

Accessing the Prince Cluster
- From Windows workstation
- From Mac workstation

Software and Environment Module

Job script and resource request
- Introduction to job scheduling
- Submitting jobs with sbatch
- Requesting resources
- Using computing nodes interactively

Monitoring batch jobs
- Monitoring batch jobs - squeue
The program `slurmtop`, available on the login nodes, shows which jobs are currently running on which nodes and cores of a cluster.

Jobs belonging to a single user can be highlighted by launching `slurmtop` with the `-u` switch:

```
slurmtop -u <NetID>
```

(of course, replace `<NetID>` with your NYU NetID). Or, you can use the alias "me":

```
slurmtop -u me
```

When you start `slurmtop` you see something like the annotated screenshot below. You might need to resize your terminal to make it all fit:
Exercise
Start slurmtop and find your interactive session.

You'll probably need to use `slurmtop -u me` to identify your job amongst all the colors.

You'll probably also need to increase the size of your terminal window and decrease the font size so it all fits!

What hardware is available?

You can use slurmtop to see which nodes are busy and which are free. Knowing what resources are available on a given node can help in estimating how busy is that part of the cluster that your job needs.

Node types we have, and where they appear in slurmtop, are:
28 cores, 125 GB

28 cores, 250 GB

20 cores, 62 GB

4 cards each GPU node