Summary of the tutorial

<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 Dhab i)</td>
</tr>
</tbody>
</table>
Transferri ng data to/from the clusters
Transferri ng data to/from Prince cluster using Globus
Submitti ng jobs with sbatch
Available software
Licensed Software Available on the HPC Cluster
Building Software
Slturm Tutorial
Tutorials
FAQs
Scratch Area Cleanup
Programming for Biologists
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
You can compile, edit scripts and view results on the login nodes, but **computational work should be run on the compute nodes**

You can access compute nodes with `srun`

- Either via a job script, or interactively
- Compute nodes are allocated to jobs by the scheduler, so your job might not start immediately
- Jobs must request resources, but mostly need not specify a queue.
- Requesting just slightly more than when you expect to need is generally the best practice
- **Short jobs get higher priority, and short or small jobs are easier to schedule quickly**

You can monitor your job's progress with `squeue`, `sstat`, `sacct`, `scontrol` or `slurmtop`

Software is managed by Environment Modules

- Use `module avail` to find software packages
- And `module load` to load them into your environment
  - including within job scripts!
- Use `module purge` to return to a clean environment before loading a new set of modules
- Other useful commands are `module list` and `module show`