



Be Boulder.



University of Colorado **Boulder**

Node Types

- HPC infrastructure comprised of several components
 - Different node types
 - Specific nodes vary by center
 - Three general types:
 - Login nodes
 - Compile nodes
 - Compute nodes

Login nodes

- Where you typically land when logging into the system
- Not a place for heavy computation
- Not a place for running memory intensive applications
- Great for:
 - Script editing
 - Job submission

Compile nodes

- Place to compile code
- Same software stack and compilers as compute nodes
- When compile code on this node should run on compute node
- Only certain languages require compiling
 - C, C++, Fortran
 - Not for Python, R, Matlab
- Do not have compile nodes for course

Compute nodes

- Where the submitted jobs run
- Accessible indirectly through job scheduler
- Heavy computational load