**Duke University**

Duke Computing Cluster

1. Login

ssh ed155@dcc-slogin.oit.duke.edu

All login nodes (01,02,03) files are shared

1. File Transfer

scp data.txt netid@dcc-slogin-01.oit.duke.edu:.

scp netid@dcc-slogin-01.oit.duke.edu:data.txt .

• Use either

scp -r (small files) or rsync –av (large files)

• Pushing a directory:

rsync –av dir1/ netid@dcc-slogin-01.oit.duke.edu:. or

scp -r dir1/ netid@dcc-slogin-01.oit.duke.edu:.

• Pulling a directory:

rsync –av netid@dcc-slogin-01.oit.duke.edu:~/dir1 .

scp -r netid@dcc-slogin-01.oit.duke.edu:~/dir1 .

1. SLURM
   1. Run on partition

•  Most DCC partitions are dept-owned machines   
•  These can only be used by members of the group   
•  Submitting to a group partition gives “high-priority”   
•  Submit to partitions with “--partition=” or “-p“, e.g.   
**#SBATCH –p (partition name)** (in a script) or   
**srun –p (partition name)--pty bash –i**(interactively)  
•  The default DCC partition is called “common”   
•  The common partition gives “low-priority” to most ESX hosts

**COMMANDS**

•  sbatch   
Submit a batch job (like “qsub”)   
•  #SBATCH   
Specify job parameters (like “#$”)   
•  squeue (like “qstat”)   
Show lists of jobs   
•  scancel (like “qdel”)   
Delete one or more batch jobs   
•  sinfo (like “qhost”)   
Show info about machines   
•  scontrol   
Show cluster configuration information

1. DCC Partitions   
   There are different DCC partitions to which batch   
   jobs and interactive sessions can be directed:   
   •  **common**, for jobs that will run on the DCC core   
   nodes (up to 64 GB RAM).   
   •  **common-large**, for jobs that will run on the DCC   
   core nodes (64-240 GB GB RAM).   
   •  **gpu-common**, for jobs that will run on DCC GPU   
   nodes.   
   •  **Group partitions** (partition names varies), for   
   jobs that will run on lab-owned nodes