Connecting to the cluster

`ssh <yourlastname>@ssh.bch.umontreal.ca`

- no special port for connection anymore
- `-X` / `-Y` option: allows graphical display
- bandwith limit: use cluster mostly for non-graphical tasks
- exceptions: `gnuplot`, `njplot`

- change your password !
- `passwd` command

Organize your account

import useful files

- cp -r /opt/revbayes/examples ~/.
- cp -r /opt/revbayes/tutorials ~/.

tutorials folder

- handouts, data, example scripts
- will be regularly updated over the week

Copying distant files

from local machine to cluster

- scp <local_file>
  <username>@ssh.bch.umontreal.ca:<path>
- example:
  scp gtr_clock.Rev
  lambda@ssh.bch.umontreal.ca:revbayes/examples/
- -r option: recursive copy of entire directories

from cluster to local machine

- scp -r
  <username>@ssh.bch.umontreal.ca:<path/file>
  <local_path>
- example:
  scp -r
  lambda@ssh.bch.umontreal.ca:revbayes/examples .

Submitting jobs

interactive shells: the `qrsh` command

- `qrsh` starts a (non-graphical) interactive shell on exec. host
- from there, you can run `revbayes` (or anything else)
- once finished, `exit` the shell

non-interactive jobs

- `qsub <script>`
- `qsub -b y <command>` (should be a non-interactive job)
- `qstat -f`: check job status
- `qdel <job_id>, qdel <job_name>`: stop specified job
- `qdel -u <my_username>`: stop all your jobs

Rules and good practices

- change your password!
- don't run revbayes directly from the master node
- not too intensive graphical outputs are allowed on master
- don't submit more than 3 jobs (including interactive sessions)

- use cluster only for revbayes-related work
- cluster only available until this Sunday (Aug 31)
- accounts will be de-activated afterwards (by Sept 5)
- so, don't forget to copy everything somewhere else before then