## Linux/Unix basic commands

Basic command structure: command -[options] some\_argument

ls [-l, -rt, -h] List contents in the directory

mkdir Make a new directory

cd [directory] Change into a directory

cp [-r] Copy file (or a directory with -r)

mv Move/Rename file or directory

rm [-r] Remove a file (or a directory with -r)



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pwd Show the full path of current directory

cat [file] View file, scrolling

more View file, one screen at a time

less Like more, more features

diff [file1] [file2] Display differences between file1 & file2

grep 'pattern' file Find a regular expression in a file

## Example: Look for the pattern PBS in a file submit job

```
$ grep 'PBS' submit.job
-->
$ #PBS -1 nodes=1:ppn=4
$ #PBS -1 walltime=2:00:00
```



## Pipes and redirection

Very useful feature of the command line.

command > file Redirect output of command to a file

command >> file Redirect to file, append

command < file1 > file2 Get input from file1, direct output to

file2

command1 | command2 Pipe output of command1 to command2

Example: Take input from a data file, run an executable, and print to an output file

\$ test.x < data.input > data.output

