

Quick Reference Sheet

Basic Shell Commands and Utilities

<i>Command</i>	<i>Description</i>	<i>Examples</i>
cat <file-path>	C oncatenate files and print on the standard output.	cat fractal.pbs cat cfd/Makefile
cd <directory-path>	C hange D irectory Changes the current working directory.	cd sharpen cd /work/y14/y14/guestXX cd ..
cp <old-file-path> <new-file-path>	C opies a file.	cp cfd.f90 cfd.f90.old cp cfd.tar.gz /work/y14/y14/guestXX
diff <file-path1> <file-path2>	Prints the d ifference between files. Compares line by line.	diff flow.dat ../verify/flow 1 1000.dat
ls <directory-path>	L ists directory contents. On its own lists the current working directory. Can list and sort by size, modification date, etc.	ls ls -l ls -lt ls /work/y14/y14/guestXX
grep <file-path>	G lobal R egular E xpression P rint Selects lines in files that match patterns.	grep PBS cfd.pbs
make	Builds software in the current working directory. Compilation is directed by a Makefile.	make
man <command>	Displays the m anual page for a given command.	man ls man cp man man
mkdir <new-directory-path>	M akes a new d irectory at the specified path.	mkdir exercises
mv <old-path> <new-path>	M oves (renames) a file or directory.	mv cfd /work/y14/y14/guestXX mv tpyo.txt typo.txt
rm <file-path>	R emoves (deletes) a file.	rm delme.txt
rmdir <directory-path>	R emoves (deletes) an empty d irectory.	rmdir empty-dir
tar <file-path>	T ape a rchive utility. Saves to or extracts files from a single archive.	tar -xzvf sharpen.tar.gz
wget	W orld W ide W eb g et Downloads files from the Web.	wget http://example.com/file.zip

Paths

<i>Type</i>	<i>Description</i>
/	On its own refers to the root of the filesystem.
/path/from/root	An absolute path
path/no/leading/slash	A path relative to your current working directory.
.	Refers to the current directory.
..	Refers to the parent of the current directory.
*	A wildcard that matches zero or more characters in a filename. *.txt matches all files ending in .txt

Text Editors

<i>Name</i>	<i>Description</i>	<i>Examples</i>
emacs	A widely used editor with a focus on extensibility.	emacs -nw sharpen.pbs CTRL+X CTRL+C quits CTRL+X CTRL+S saves
nano	A small, free editor with a focus on user friendliness.	nano sharpen.pbs CTRL+X quits CTRL+O saves
vi	A mode based editor with a focus on aiding code development.	vi cfd.f90 :q in command mode quits :q! in command mode quits without saving :w in command mode saves i in command mode switches to insert mode ESC in insert mode switches to command mode