

Connecting

SSH/SFTP/SCP: login.compute.dundee.ac.uk

SMB: smb.compute.dundee.ac.uk/cluster

Getting Help

Command	Effect
man command	view man page for 'command'
man -k term	Search man pages for 'term'

File system operations

Command	Effect
pwd	Print working directory
ls	List directory contents
ls -a	Show hidden files
ls -l	Long format listing
ls -t	Sort by modification time
ls -S	Sort by file size
ls -r	Reverse sort order
cp file1 file2	copy file1 to file2
cp -r dir1 dir2	Recursively copy directory
mv file1 file2	move file1 to file2
cd dir	Change working directory to 'dir'
cd	Change to home dir
cd -	Change to previous working directory
mkdir dir	Make directory 'dir'
rmdir dir	Remove directory 'dir'
rmdir -r dir	Recursively remove directory and contents

Working with files

Command	Effect
cat file	Show contents of file on STDOUT
less file	View file one screen at a time
head file	Show first 10 lines of file on STDOUT
tail file	Show last 10 lines of file on STDOUT
cut -f2 file	Output field2 of a tab-delimited file file
cut -f2 -d',' file	Output field2 of a ','-delimited file file
grep string file	Search file for lines containing string
grep -c string file	Report number of lines containing string in file
grep -v string file	Search for lines not containing string in file
gzip file	Compress file
zcat file.gz	Shows contents of file.gz on STDOUT
gunzip file.gz	Decompress file.gz

Redirection

Command	Effect
command > out.txt	Redirect STDOUT of command to out.txt
command 2> err.txt	Redirect STDERR of command to err.txt
command1 command2	Pipe STDOUT of command1 to command2 STDIN

Editing files with nano

Command	Effect
nano	Open nano with an empty buffer
nano file.txt	Open file.txt in nano
ctrl-o	Write-out (save)
ctrl-r	Read file into current buffer
ctrl-x	Exit nano
ctrl-w	Search forwards for term

Univa Grid Engine (UGE)

Commands

Command	Effect
qsub script.sh	Submit script to queue
qstat	Show status of my jobs
qstat -F -j 12345	Show full status of job id 12345
qdel 12345	Delete job 12345
qrsh	Request interactive job
qlogin	Request X11-interactive job

Directives

Directive	Effect
-cwd	Start job in current working directory
-jc [long 4week]	Assign job to job class
-j	Join STDOUT and STDERR
-mods l_hard mfree 16G	Modify mfree resource request of job class
-adds l_hard local_free 50G	Add local_free resource request to job class
-pe smp 16	Request 16 slot SMP parallel environment

