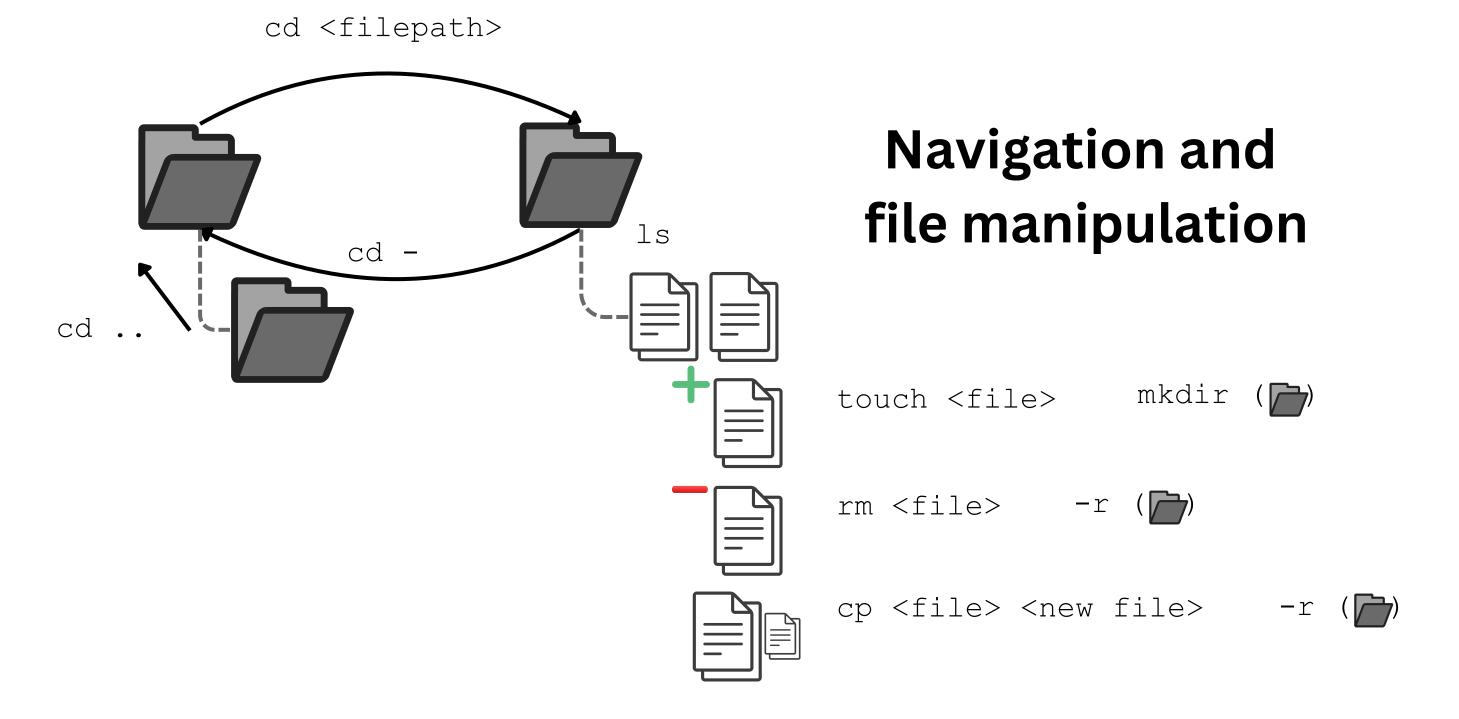
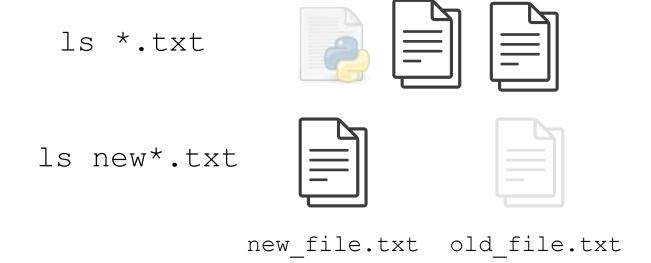
Bash in 1 page



Globbing - str matching



list all files with .txt in their name '*' means any string

list any files that start with 'new' and end with '.txt'

Also works with:

cp, mv, cat, grep,
find

Useful Bash shortcuts



Most important commands for navigation and file manipulation:

Move to the directory / fred/oz002
Move up one directory
Go back to previous directory
List files in the directory / fred/oz002 (including metadata)
Make a copy of file and call it file2
Make copy of file and put it in /fred/oz002
Make copy of folder and all contents (-r recursive)
Remove file (-r to remove folder and all contents)
Move file to /fred/oz002
Rename file to file2
Create empty file
Create empty directory/folder
Display all contents of file
Display contents of file gradually
Find all occurrences of str in file (-n include line numbers)
Find file named myfile.txt and print out its filepath
Make directory sym_dir that points to /fred/oz002

Other Useful commands:

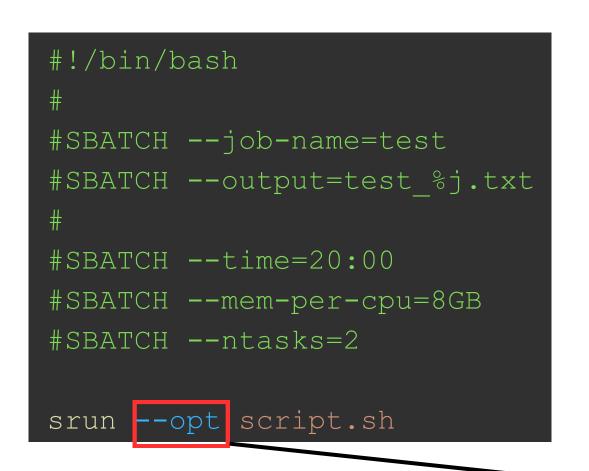
pwd	Print fullpath of current directory
echo "hello"	Print "hello" to terminal
echo \$var	Print var variable to terminal
clear	clear text in terminal
history	list previous commands that were run in terminal
display image.png	Display image.png in GUI window (requires X11 forwarding)
chmod <perms> file</perms>	Change permission <perms> of file</perms>
man <command/>	Open manual (help) of bash command
exit	Exit shell (ipython, ssh, sinteractive session)

SLURM in 1 page

JOB

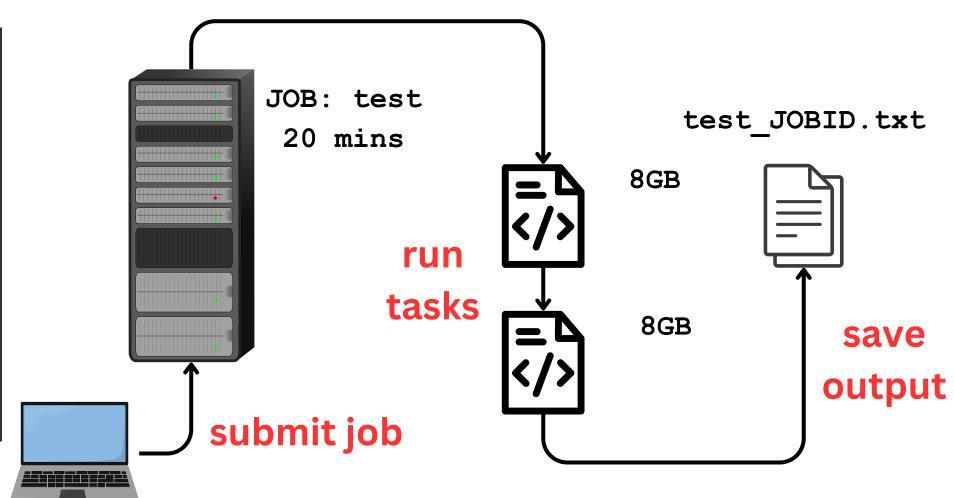


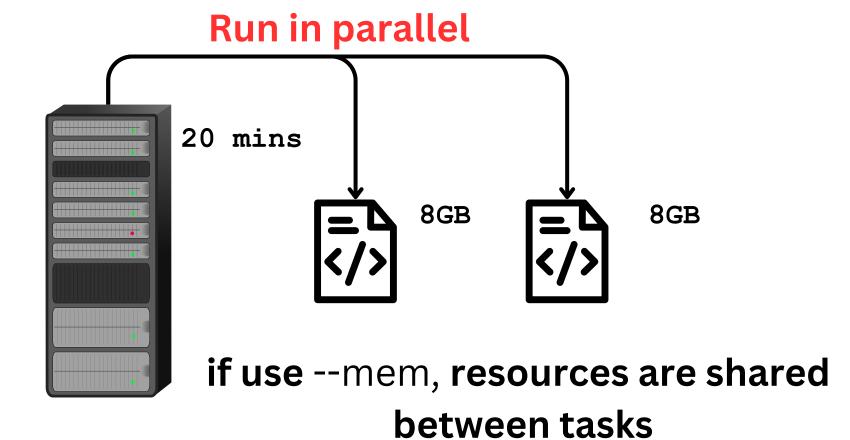
> sbatch slurm_script



> sbatch slurm_script

allocate resources





specify resources for srun task

Commands

[user]\$ sbatch slurm_script
submitted batch job 500

[user]\$ squeue -j 500

[user]\$ scancel -j 500

Start slurm job with job id -j

Check status of job (-u <user> will list all the users jobs)

Cancel job (-u <user> will cancel all the users jobs)

SLURM --Options

Option Description

-	<u> </u>
job_name=""	Name of Job
output=""	All text outputs during runtime are saved to this file
time=dd:hh:mm:ss	Requested time to run job
mem=8GB	Requsted memory, units can be K, M, G and T
ntasks=4	Run 4 parallel instances of each a task or script
gpus=2	Requested number of gpus
mem-per-cpu=4GB	Requested memory for each cpu
cpus-per-task=4	Requested number of cpus per task
mem-per-gpu=4GB	Requested memory for each gpu
gpus-per-task=2	Requested number of gpus per task
ntasks-per-gpu=4	Requested number of tasks per gpu (Not compatible with –gpus-per-
	task)
mail-user=user@swin.edu.au	Sends emails on the progress of the job
wrap=""	Run the specified string as a bash script using sbatch
tmp=8GB	Specify a minimum amount of temporary disk space per node
array=0-10	Run an array of jobs (multiple parallel jobs), 0-10 specifies the unique
	array-job-id

Many more Slurm options are available, see slurm.schedmd.com/sbatch.html for a comprehensive list.