

# CSC Quick Reference

## Unix commands

- **ls** - list directory
- **cp** - copy a file
- **mv** - move or rename a file
- **rm** - delete a file
- **cd** - change the current directory
- **pwd** - print name of the current directory
- **mkdir** - create a directory
- **rmdir** - delete a directory
- **chmod** – change file rights
  - owner/group/everybody
  - read(4)/write(2)/execute(1)
- **chgrp** – change file/folder owner
- **less** – see text file (exit with q)
- **exit** - quit the session
- **history** - list all commands given previously
- **head** - list ten first lines of the file
- **tail** -100 - show the last 100 lines
- **tail -f** - keeps listing the end of file. Handy for following an output file when lines are appended to it.
- **grep** – find rows containing a string
- **ls -la > file** - output of a command to a file
- **ls -la >> file** – append output of a command to a file
- **ls -la | grep "nobel"** - Chaining (piping) multiple commands
- **zip** - compress
- **unzip** - uncompress

## File transfer

- **scp** - copy a file from one computer to another
- **wget, curl** – get a file from HTTP /FTP
- **rsync** – get/put a file from/to rsync server
- **du -hs \*** (disk space used by directories)
- **a-put** file (copies file or folder to Allas)
- **a-get** object (copy an object from Allas to current directory)
- **a-list** (shows content of your Allas archive)
- **a-publish** (makes file available via www)

## CSC modules

- **module load** - initialize the environment of an application
- **module spider** - list available modules
- **module list** - list loaded applications
- **module purge** - remove application environments

## CSC batch jobs

- **sbatch** - submit a job
- **squeue** - see the job status in the queue
- **scancel** - cancel a job
- **seff** - info about completed jobs
- **sacct** - info about completed jobs

## CSC servers

- **puhti.csc.fi**
- **mahti.csc.fi**

## Help

- ServiceDesk: servicedesk@csc.fi
- Accounts, projects, forgotten password: <https://my.csc.fi> on commandline also **csc-projects** and **csc-workspaces**
- **csc-env** - check / reset Puhti/Mahti environment
- What is available: <https://research.csc.fi/>
- How to use them: <https://docs.csc.fi/>
- <https://docs.csc.fi/support/FAQ>
- <https://docs.csc.fi/support/tutorials/>