**CSC Quick Reference**

**Unix commands**

* **ls** - list directory contents
* **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
  + **r**ead(4)/**w**rite(2)/e**x**ecute(1)
* **chgrp** - change file/folder owner
* **less** - see text file (exit with **q**)
* **cat** - see file content
* **head** - list ten first lines of the file
* **tail** **-100** - show the last 100 lines
* **grep** - find rows containing a string
* **eog** - open an image-file
* **evince** - open a pdf-document
* **echo** - print text
* **exit** - quit the session
* **history** - list all commands given previously
* **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 (see also **csc-workspaces**)
* **allas-conf** - initialize access to Allas
* **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**
* **Puhti Web Interface –** <https://www.puhti.csc.fi/>

**Help + CSC specific**

* ServiceDesk: [servicedesk@csc.fi](mailto:servicedesk@csc.fi)
* Accounts, projects, forgotten password[:](https://sui.csc.fi/) <https://my.csc.fi/>, on command line 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/>