```
1
    Linux-commands and useful links
 2
    _____
3 pwd
                             - where am I (which is the current directory)
4
   11
                            - show the list of files (detailed information)
5
    ls
                           - short list of files
6
    cp file1 file2 - copy files
7
8
    use left mouse button to highlight filenames (as ctrl-c) and then the right mouse button to paste filenames (as ctrl-v)
9
10
    use tab-key to finalize filenames (directory names)
11
12
    example (for a file starting with letter "t"): ll t <tab>
13
14 cd -
                             - goes back to the latest directory you have been
15
   cp -Rp dirname1 dirname2 - copy directories (Recursively) preserving time stamps
16 du -h dirname
                             - how big is a directory (human readable format)
17 touch filename
                            - creates a new file (empty)
18 chmod u+x programname - allow yourself (give permissions) to execute this program
                            - executes the program in/from the current dir
19
   ./programname
20 touch filename.dat
                          - creates a new empty file with that name and extention
21
   tail -f filename (ascii) - allows to see the last 10 lines of a file (quit with ctrl c)
22
                             useful for watching OpenFOAM-output on supercomputers (e.g. file slurm-20716755.out)
23
   tail -f filename -n 500 - shows the last 500 lines on the screen (quit with ctrl c)
24 arrow up
                             - shows the last command (you can press it several times to see also precious commands)
25
   !mod
                             - repeats the last command starting with "mod" (e.g. command "module available")
26
   historv
                             - shows your last 1000 commands (earlier commands will be overwritten by the newest commands)
    mkdir aaa kurs
                            - creates the directory for the (OpenFOAM-course) runs today
27
   cp dirname/filename . - copies a file to the present dir (present location)
28
29
   more filename
                            - lists the contens of a file on the screen (continue with the space key)
30
   cd ..
                           - go one directory up
   cp ../filename . - copies the file from the upper directory to the present directory
31
32
33
    do not use Allrun (from the ususal OpenFOAM-tutorials) on a login node
34
                             - instead we should use sbatch (queues)
35
36
    sbatch my jobsubmitfile.sh - submitting a job (may contain the command Allrun or an OpenFOAM-solvername to be executed)
37
    sinfo t idle
                              - shows the names of the queues and the free resources
38
39
    https://wiki.bwhpc.de/e/BwUniCluster3.0/Running Jobs#Batch Jobs: sbatch
40
                              - one can see all options for the queues on bwuniCluster (uc3)
41
42
    https://www.nhr.kit.edu/userdocs/horeka/batch/
43
                             - all options for the gueues on HoreKa supercomputer
44
45
    scontrol show job
                             - information of your active jobs in all queues
    scancel job-number
                            - cancels/stops your job
46
                             - short version of the queues and jobs
47
    squeue
48
49
    blockMesh > fileFromBlockMesh.dat
50
                             - writing/redirecting (screen-)output of the program to a file (redirecting the output)
51
```

52	reconstructPar -latestTime	- reconstructs a parallel run (into a 1-processor run) - useful e.g. when changing the
53		number of cores between 2 consequent runs (or for postprocessing (optionlly for ParaView))
54	grep -in abcd filename	- extracts the lines containing string abcd from file filename to the screen (showing also
55		the number of the line where the string appears). For additional information type "man grep" or
		"grephelp"