OpenFOAM Linux Cheat Sheet

File & Directory

mkdir

[OPTION]... DIRECTORY... -p make parent directories \$ mkdir -p \$FOAM RUN cp & mv [OPTION]... [-T] SOURCE DEST [OPTION]...SOURCE...DIRECTORY -b make a backup of each existing destination file do not overwrite an existing file -n prompt before overwrite -i copy(move) directories recursively -r \$ cp -r \$FOAM_TUTORIALS . [OPTION]... FILE... rm -f never prompt -i prompt before every removal remove directories recursively -r \$ rm -ri 0\.[^o]* 1n TARGET... DIRECTORY soft link **-** S ln /opt/openfoam30/doc/Guides-- S a4/UserGuide.pdf ~/Desktop/UserGuide [OPTION]... FILE... touch \$ touch cavity.OpenFOAM [OPTION]...MODE[,MODE]...FILE... chmod [OPTION]...OCTAL-MODE FILE... \$ chmod +x Allrun find [OPTION] [path...] [expression] \$ find tutorials/ -name simpleFoam locate [OPTION]... PATTERN... \$ locate interPhaseChangeFoam.C

Text

echo [SHORT-OPTION]... [STRING]... enable interpretation of backslash escapes -e \$ echo -e '\n'\$FOAM SRC'\n' [FILE]... less \$ less \$WM PROJECT DIR/Allwmake νi [FILE]... \$ vi ~/.bashrc [OPTIONS] PATTERN [FILE...] grep ignore case distinctions in both the -i PATTERN and the input files -h Suppress the prefixing of file names on output. \$ grep -ih build \$WM PROJECT DIR/Allwmake

Binary & Package

[-bmsu] filename... whereis -b Search only for binaries \$ whereis -b paraview whatis name ... \$ whatis evince [OPTION] page... man \$ man chmod [OPTION] keyword... apropos \$ apropos plot apt-get update resynchronize the package index files install the newest versions of all packages upgrade currently installed on the system install packages install uninstall packages remove \$ sudo apt-get install openfoam4

apt-cache

search perform a full text search on all available package lists

\$ apt-cache search openfoam

Process & Environment

ps [OPTIONS] see every process on the system -e \$ ps -e [options] <pid>[...] kill -9 send SIGKILL -1 list signal names \$ kill -9 12974 env [OPTION]... [-] [NAME=VALUE]... \$ env | grep ^FOAM alias [-p] [name[=value] ...] \$ alias mv='mv -i' FILE... source \$ source /opt/openfoam30/etc/bashrc

Redirection

command1 > file1	execute command1, placing
	the output in file1
<pre>command1 >> file1</pre>	append output to the end of
	the file
command1 < file1	execute command1, with
	file1 as the source of input
tr a-z A-Z << END_TEXT	read from a stream literal
command1 command2	executes command1, using
	its output as the input for
	command2

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