Terminal

Terminal Commands

Aa Command	☰ Funktion	☰ information
apt list —installed	List of all packages	
sudo dislocker /dev/nvme0n1p4 -p685179-682770-664499-287221-065846-568744-446556-463661 -- /media/bitlocker	Unlock Bitlockpartition	
sudo mount -t ntfs-3g -o loop /media/bitlocker/dislocker-file /media/bitlockermount	mount the Bitlockpartition	
setxkbmap -option caps:swapescape	swaps escape and capslock	
dconf write "/org/gnome/desktop/input-sources/xkb-options" "['caps:swapescape']"	" " permamently	
cat /proc/asound/card*/codec* | grep Codec	shows microphone infos or somtething alike	
./"Programm"	führt das programm aus	
mv "oldName" "newName"	change name	
mv+"path where it should be"+"where it goes"	move files	
touch	creates new file	
systemctl	systemcontroll	
man	shows what i can do with the following programm	
du	gibt speicherinformationen a	diskusage
df	zeigt speicher aller devices an	
cat	shows what is in file	

Command	Funktion	information
echo	gibt aus	ähnlich wie System.ouPrintln
gedit +"filename.java" + &	erstellt file und lässt im hintergrund laufen	
lsblk	shows mount point and drives	
whereis + "programmname"	shows fullpath of a Programm	
pwd	shows path you're in	
git clone https://github.com/noahvogt/gkg.git	cloned the stuff from git in this file	
rmdir	remove directory if empty	
xdg-open + file	search for Programm which can open file	
programm + file	opens file with the programm	z.b texmaker protokoll-2.tex
strg + l	clears the terminal history	alternativ clear as a command
pdflatex + "texdatei"	compiled the document	
sudo find / -name "filename"	shows where the file is| / where to start | -name it is a file with name ..	find . -name "pattern" -print
mkdir	creates folders	
rm	remove files and (directories)	
enable	lets a programm start at evry boot	
sudo+apt+list+"packagename"	finds package	
sudo apt remove "programmname"	removes programm	
sudo+cheese	test camera and opens a camera window	
!!	command from befor	

Command	Funktion	information
sudo hdparm -Tt /dev/sda	shows speed of ssd	
pkill +...	kills pocesses	
cp	copie file	
cp -r	wenn ordner kopie fèr sicherheit	
img2pdf file.jpg -o file.pdf	convert jpg to pdf	
top	shows cpu usage etc.	
rm	delets files	
pgrep -f "[programmname]"	To see the PID of a programm to make killall [PID]	
Ctl + w	removes last word	
~/	= /home/liquid	
../../		
pandoc	documents converter	
pandoc -s "inputfile.docx" -o "outputfile.pdf"	converts ins latex converts textfiles oder simialar	
convert		
alsamixer	for audio mix	
uname -r	gives kernelversion out	
Untitled		
export CLASSPATH=$CLASSPATH:+libs/flanagan.jar	importiert \+libs in flanagan oder so um zu kompilen	
sudo arecord -l	list avaiable microphones	
cat /proc/asound/card*/codec* | grep Codec	infos about graphiccard and speaker/microphone	
uname -m	x86_64 indicates a running 64-bit kernel.	
neofetch	display ubuntu logo and informations about software	

Command	Funktion	information
sudo apt-get purge <package-name>	removes a software completly	
history	displays all of your previous commands up to the history limit.	
df	displays information about the disk space usage of all mounted filesystems.	(display filesystem)
top	Displays the processes using the most system resources at any given time.	
for f in *.jpg; do mv "$f" "new.$f"; convert "new.$f" -background white -alpha remove -alpha off "${f%.}.jpg"; rm "new.$f"; done	To apply the convertcommand to several files, can be use for diffrent commands	
for f in *.png; do mv "$f" "new.$f"; sleep 3; img2pdf "new.$f" -o "${f%.}.pdf"; rm "new.$f"; done	converts multiple png files to pdf files	
pdfunite file.pdf file2.pdf mergefile.pdf	merges pdf files together	
for i in *.log; do mv -- "$i" "${i%.log}.txt"; done	to change the names	
Untitled		

""

Command	Funktion	information
command1;command2	does the commands in order	
unzip	is the programm to unzip files	
sudo update-alternatives --display java	to se awalable jaba versions	

Aa Command	☰ Funktion	☰ information
sudo update-alternatives --config java	to change default java version	
./sdkmanager --licenses	to accept all sdk licens	in ~/Android/Sdk/bin
sudo shutdown -r	to reboot	
identify filename	show size of picture etc	
convert -crop 20%x100% rose.jpg rose2.jpg	to crop a picture in to pieces	
lsmod | grep snd	to se where snd is used as driver or somthing	
aplay -l	list of Playback hardware devices	
pacmd list-sources	list information about speaker and microphone i guess	
lsmod	shows which moduls are currently loaded	
lscpu	informations about cpu hardware etc	
systemctl suspend	suspend the system	similar to alt+l
gsettings set org.gnome.desktop.background picture-uri file:"filepath"	to set Wallpaper of desktop	
zsh	to change in zsh	
exit	to exit shell	
bash	to change to bash	
java -jar FILENAME	to run jar file with java	
sudo apt install openjdk-8-jdk	to install java version 8	
javac	to compile java programm	
zip -r filename.zip folder	to zip a folder	
Untitled		

Termianl shortcuts

Aa Ctrl + Shift + T	☰ Open new tab on current terminal	☰ info

Aa Ctrl + Shift + T	☰ Open new tab on current terminal	☰ info
https://www.gnu.org/savannah-checkouts/gnu/bash/manual/bash.html#Pattern-Matching		
Ctrl + Shift + W	Close the current tab	
Untitled		
Ctrl + A	Move cursor to beginning of line	
Ctrl + E	Move cursor to end of line	
Ctrl + U	Clears the entire current line	
Ctrl + K	Clears the command from the cursor right	
Ctrl + W	Delete the word before the cursor	
Ctrl + R	Allows you to search your history for commands matching what you have typed	
Ctrl + C	Kill the current process	
Ctrl + Z	Suspend the current process by sending the signal SIGSTOP	
Ctrl + L	Clears the terminal output	
Alt + F	Move forward one word	
Alt + B	Move backward one word	
Ctrl + Shift + C	Copy the highlighted command to the clipboard	
Ctrl + Shift + V or Shift + Insert	Paste the contents of the clipboard	
Up/Down Arrow keys	To scroll through your command history, allowing you to quickly execute the same command multiple times	

modprobe

6 source(s) available.

index: 1

name: <alsa_output.pci-0000_00_1f.3-platform-skl_hda_dsp_generic.HiFi__hw_sofhdadsp_5__sink.monitor>

driver: <module-alsa-card.c>

flags: DECIBEL_VOLUME LATENCY DYNAMIC_LATENCY

state: RUNNING

suspend cause: (none)

priority: 1030

volume: front-left: 65536 / 100% / 0.00 dB,   front-right: 65536 / 100% / 0.00 dB

balance 0.00

base volume: 65536 / 100% / 0.00 dB

volume steps: 65537

muted: no

current latency: 0.00 ms

max rewind: 7 KiB

sample spec: s16le 2ch 48000Hz

channel map: front-left,front-right

Stereo

used by: 1

linked by: 1

configured latency: 40.00 ms; range is 0.50 .. 341.00 ms

monitor_of: 1

card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>

module: 23

properties:

device.description = "Monitor of Cannon Point-LP High Definition Audio Controller HDMI3/DP3 Output"

device.class = "monitor"

alsa.card = "0"

alsa.card_name = "sof-hda-dsp"

alsa.long_card_name = "HP-HPEliteDragonfly--861F"

alsa.driver_name = "snd_soc_skl_hda_dsp"

device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"
sysfs.path =
"/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"
device.bus = "pci"
device.vendor.id = "8086"
device.vendor.name = "Intel Corporation"
device.product.id = "9dc8"
device.product.name = "Cannon Point-LP High Definition Audio Controller"
device.string = "0"
module-udev-detect.discovered = "1"
device.icon_name = "audio-card-pci"
index: 2
name: <alsa_output.pci-0000_00_1f.3-platform-
skl_hda_dsp_generic.HiFi__hw_sofhdadsp_4__sink.monitor>
driver: <module-alsa-card.c>
flags: DECIBEL_VOLUME LATENCY DYNAMIC_LATENCY
state: RUNNING
suspend cause: (none)
priority: 1030
volume: front-left: 65536 / 100% / 0.00 dB,   front-right: 65536 / 100% / 0.00 dB
balance 0.00
base volume: 65536 / 100% / 0.00 dB
volume steps: 65537
muted: no
current latency: 0.00 ms
max rewind: 7 KiB
sample spec: s16le 2ch 48000Hz
channel map: front-left,front-right
Stereo
used by: 1
linked by: 1
configured latency: 40.00 ms; range is 0.50 .. 341.00 ms
monitor_of: 2
card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>
module: 23
properties:
device.description = "Monitor of Cannon Point-LP High Definition Audio
Controller HDMI2/DP2 Output"
device.class = "monitor"

alsa.card = "0"

alsa.card_name = "sof-hda-dsp"

alsa.long_card_name = "HP-HPEliteDragonfly--861F"

alsa.driver_name = "snd_soc_skl_hda_dsp"

device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"

sysfs.path = "/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"

device.bus = "pci"

device.vendor.id = "8086"

device.vendor.name = "Intel Corporation"

device.product.id = "9dc8"

device.product.name = "Cannon Point-LP High Definition Audio Controller"

device.string = "0"

module-udev-detect.discovered = "1"

device.icon_name = "audio-card-pci"

index: 3

name: <alsa_output.pci-0000_00_1f.3-platform-skl_hda_dsp_generic.HiFi__hw_sofhdadsp_3__sink.monitor>

driver: <module-alsa-card.c>

flags: DECIBEL_VOLUME LATENCY DYNAMIC_LATENCY

state: RUNNING

suspend cause: (none)

priority: 1030

volume: front-left: 65536 / 100% / 0.00 dB,   front-right: 65536 / 100% / 0.00 dB

balance 0.00

base volume: 65536 / 100% / 0.00 dB

volume steps: 65537

muted: no

current latency: 0.00 ms

max rewind: 7 KiB

sample spec: s16le 2ch 48000Hz

channel map: front-left,front-right

Stereo

used by: 1

linked by: 1

configured latency: 40.00 ms; range is 0.50 .. 341.00 ms

monitor_of: 3

card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>

module: 23

properties:
device.description = "Monitor of Cannon Point-LP High Definition Audio Controller HDMI1/DP1 Output"
device.class = "monitor"
alsa.card = "0"
alsa.card_name = "sof-hda-dsp"
alsa.long_card_name = "HP-HPEliteDragonfly--861F"
alsa.driver_name = "snd_soc_skl_hda_dsp"
device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"
sysfs.path = "/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"
device.bus = "pci"
device.vendor.id = "8086"
device.vendor.name = "Intel Corporation"
device.product.id = "9dc8"
device.product.name = "Cannon Point-LP High Definition Audio Controller"
device.string = "0"
module-udev-detect.discovered = "1"
device.icon_name = "audio-card-pci"
index: 4
name: <alsa_output.pci-0000_00_1f.3-platform-skl_hda_dsp_generic.HiFi__hw_sofhdadsp__sink.monitor>
driver: <module-alsa-card.c>
flags: DECIBEL_VOLUME LATENCY DYNAMIC_LATENCY
state: RUNNING
suspend cause: (none)
priority: 1030
volume: front-left: 65536 / 100% / 0.00 dB,   front-right: 65536 / 100% / 0.00 dB
balance 0.00
base volume: 65536 / 100% / 0.00 dB
volume steps: 65537
muted: no
current latency: 0.00 ms
max rewind: 0 KiB
sample spec: s16le 2ch 48000Hz
channel map: front-left,front-right
Stereo
used by: 5
linked by: 5

configured latency: 40.00 ms; range is 4.00 .. 341.00 ms

monitor_of: 4

card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>

module: 23

properties:

device.description = "Monitor of Cannon Point-LP High Definition Audio
Controller Speaker + Headphones"

device.class = "monitor"

alsa.card = "0"

alsa.card_name = "sof-hda-dsp"

alsa.long_card_name = "HP-HPEliteDragonfly--861F"

alsa.driver_name = "snd_soc_skl_hda_dsp"

device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"

sysfs.path =
"/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"

device.bus = "pci"

device.vendor.id = "8086"

device.vendor.name = "Intel Corporation"

device.product.id = "9dc8"

device.product.name = "Cannon Point-LP High Definition Audio Controller"

device.string = "0"

module-udev-detect.discovered = "1"

device.icon_name = "audio-card-pci"

index: 5

name: <alsa_input.pci-0000_00_1f.3-platform-
skl_hda_dsp_generic.HiFi__hw_sofhdadsp__source>

driver: <module-alsa-card.c>

flags: HARDWARE HW_MUTE_CTRL HW_VOLUME_CTRL DECIBEL_VOLUME
LATENCY DYNAMIC_LATENCY

state: RUNNING

suspend cause: (none)

priority: 9032

volume: front-left: 65536 / 100% / 0.00 dB,   front-right: 65536 / 100% / 0.00 dB
balance 0.00

base volume: 20724 / 32% / -30.00 dB

volume steps: 65537

muted: no

current latency: 0.43 ms

max rewind: 0 KiB

sample spec: s16le 2ch 48000Hz

channel map: front-left,front-right

Stereo

used by: 1

linked by: 1

configured latency: 40.00 ms; range is 0.50 .. 341.00 ms

card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>

module: 23

properties:

alsa.resolution_bits = "16"

device.api = "alsa"

device.class = "sound"

alsa.class = "generic"

alsa.subclass = "generic-mix"

alsa.name = ""

alsa.id = "HDA Analog (*)"

alsa.subdevice = "0"

alsa.subdevice_name = "subdevice #0"

alsa.device = "0"

alsa.card = "0"

alsa.card_name = "sof-hda-dsp"

alsa.long_card_name = "HP-HPEliteDragonfly--861F"

alsa.driver_name = "snd_soc_skl_hda_dsp"

device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"

sysfs.path =
"/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"

device.bus = "pci"

device.vendor.id = "8086"

device.vendor.name = "Intel Corporation"

device.product.id = "9dc8"

device.product.name = "Cannon Point-LP High Definition Audio Controller"

device.string = "hw:sofhdadsp"

device.buffering.buffer_size = "65472"

device.buffering.fragment_size = "16320"

device.access_mode = "mmap+timer"

device.profile.name = "HiFi: hw:sofhdadsp: source"

device.profile.description = "Headphones Stereo Microphone"

alsa.mixer_device = "hw:sofhdadsp"

device.description = "Cannon Point-LP High Definition Audio Controller

Headphones Stereo Microphone"
module-udev-detect.discovered = "1"
device.icon_name = "audio-card-pci"
ports:
[In] Mic2: Headphones Stereo Microphone (priority 200, latency offset 0 usec,
available: no)
properties:

```
active port: <[In] Mic2>
```

- index: 6
  name: <alsa_input.pci-0000_00_1f.3-platform-
  skl_hda_dsp_generic.HiFi__hw_sofhdadsp_6__source>
  driver: <module-alsa-card.c>
  flags: HARDWARE HW_MUTE_CTRL HW_VOLUME_CTRL DECIBEL_VOLUME
  LATENCY DYNAMIC_LATENCY
  state: RUNNING
  suspend cause: (none)
  priority: 9031
  volume: front-left: 45776 / 70% / -9.35 dB, front-right: 45776 / 70% / -9.35
  dB, rear-left: 45776 / 70% / -9.35 dB, rear-right: 45776 / 70% / -9.35 dB
  balance 0.00
  base volume: 30419 / 46% / -20.00 dB
  volume steps: 65537
  muted: no
  current latency: 0.37 ms
  max rewind: 0 KiB
  sample spec: s16le 4ch 48000Hz
  channel map: front-left,front-right,rear-left,rear-right
  Surround 4.0
  used by: 1
  linked by: 1
  configured latency: 40.00 ms; range is 0.50 .. 170.50 ms
  card: 0 <alsa_card.pci-0000_00_1f.3-platform-skl_hda_dsp_generic>
  module: 23
  properties:
  alsa.resolution_bits = "16"
  device.api = "alsa"

device.class = "sound"

alsa.class = "generic"

alsa.subclass = "generic-mix"

alsa.name = ""

alsa.id = "DMIC (*)"

alsa.subdevice = "0"

alsa.subdevice_name = "subdevice #0"

alsa.device = "6"

alsa.card = "0"

alsa.card_name = "sof-hda-dsp"

alsa.long_card_name = "HP-HPEliteDragonfly--861F"

alsa.driver_name = "snd_soc_skl_hda_dsp"

device.bus_path = "pci-0000:00:1f.3-platform-skl_hda_dsp_generic"

sysfs.path =
"/devices/pci0000:00/0000:00:1f.3/skl_hda_dsp_generic/sound/card0"

device.bus = "pci"

device.vendor.id = "8086"

device.vendor.name = "Intel Corporation"

device.product.id = "9dc8"

device.product.name = "Cannon Point-LP High Definition Audio Controller"

device.string = "hw:sofhdadsp,6"

device.buffering.buffer_size = "65472"

device.buffering.fragment_size = "16320"

device.access_mode = "mmap+timer"

device.profile.name = "HiFi: hw:sofhdadsp,6: source"

device.profile.description = "Digital Microphone"

alsa.mixer_device = "hw:sofhdadsp"

device.description = "Cannon Point-LP High Definition Audio Controller
Digital Microphone"

module-udev-detect.discovered = "1"

device.icon_name = "audio-card-pci"

ports:

[In] Mic1: Digital Microphone (priority 100, latency offset 0 usec, available:
unknown)

properties:

active port: <[In] Mic1>

Codec: Realtek ALC285
Codec: Intel Kabylake HDMI

sof-hda-dsp

- *** List of PLAYBACK Hardware Devices ****
  card 0: PCH [HDA Intel PCH], device 0: ALC285 Analog [ALC285 Analog]
  Subdevices: 0/1
  Subdevice #0: subdevice #0
  card 0: PCH [HDA Intel PCH], device 3: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
  card 0: PCH [HDA Intel PCH], device 7: HDMI 1 [HDMI 1]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
  card 0: PCH [HDA Intel PCH], device 8: HDMI 2 [HDMI 2]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
  card 0: PCH [HDA Intel PCH], device 9: HDMI 3 [HDMI 3]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
  card 0: PCH [HDA Intel PCH], device 10: HDMI 4 [HDMI 4]
  Subdevices: 1/1
  Subdevice #0: subdevice #0