

```

/sys/bus/acpi/devices/ACPI000C:00/status 15
/sys/bus/acpi/devices/CPLM3218:00/status 15
/sys/bus/acpi/devices/INT33A1:00/status 15
/sys/bus/acpi/devices/INT340E:00/status 15
/sys/bus/acpi/devices/INT3F0D:00/status 15
/sys/bus/acpi/devices/INVN6500:00/status 15
/sys/bus/acpi/devices/LNXPOWER:02/status 1
/sys/bus/acpi/devices/LNXPOWER:03/status 1
/sys/bus/acpi/devices/LNXPOWER:04/status 1
/sys/bus/acpi/devices/MSFT0001:00/status 15
/sys/bus/acpi/devices/PNP0103:00/status 15
/sys/bus/acpi/devices/PNP0C02:02/status 15
/sys/bus/acpi/devices/PNP0C0A:00/status 31
/sys/bus/acpi/devices/PNP0C0D:00/status 15
/sys/bus/acpi/devices/PNP0C0F:00/status 9
/sys/bus/acpi/devices/PNP0C0F:01/status 9
/sys/bus/acpi/devices/PNP0C0F:02/status 9
/sys/bus/acpi/devices/PNP0C0F:03/status 9
/sys/bus/acpi/devices/PNP0C0F:04/status 9
/sys/bus/acpi/devices/PNP0C0F:05/status 9

```

```
/sys/bus/acpi/devices/PNP0C0F:06/status 9
/sys/bus/acpi/devices/PNP0C0F:07/status 9
/sys/bus/acpi/devices/SYN2B34:00/status 15
/sys/bus/acpi/devices/VPC2004:00/status 15
/sys/bus/acpi/devices/device:06/status 15
/sys/bus/acpi/devices/device:3e/status 15
/sys/bus/acpi/devices/device:46/status 15
```

!!Kernel Information

!!-----

Kernel release: 4.16.0-2.ge16f96d-default
Operating System: GNU/Linux
Architecture: x86_64
Processor: x86_64
SMP Enabled: Yes

!!ALSA Version

!!-----

Driver version: k4.16.0-2.ge16f96d-default
Library version:
Utilities version: 1.1.4

!!Loaded ALSA modules

!!-----

snd_hda_intel

!!Sound Servers on this system

!!-----

Pulseaudio:

Installed - Yes (/usr/bin/pulseaudio)
Running - Yes

ESound Daemon:

Installed - Yes (/usr/bin/esd)
Running - No

!!Soundcards recognised by ALSA

!!-----

0 [HDMI]: HDA-Intel - HDA Intel HDMI
HDA Intel HDMI at 0xc1310000 irq 51

!!-----

00:1b.0 Audio device: Intel Corporation Wildcat Point-LP High Definition Audio Controller (rev 03)

!!-----

—

Subsystem: 17aa:381e

!!-----

snoop : -1

!!HDA-Intel Codec information

!!-----

--startcollapse--

Codec: Intel Broadwell HDMI

Address: 0

AFG Function Id: 0x1 (unsol 0)

Vendor Id: 0x80862808

Subsystem Id: 0x80860101

Revision Id: 0x100000

No Modem Function Group found

Default PCM:

rates [0x0]:

bits [0x0]:

formats [0x0]:

Default Amp-In caps: N/A

Default Amp-Out caps: N/A

State of AFG node 0x01:

Power states: D0 D3 CLKSTOP EPSS

Power: setting=D0, actual=D0, Clock-stop=OK

GPIO: io=0, o=0, i=0, unsolicited=0, wake=0

Node 0x02 [Audio Output] wcaps 0x6611: 8-Channels Digital

Converter: stream=0, channel=0

Digital: Enabled KAE

Digital category: 0x0

IEC Coding Type: 0x0

PCM:

rates [0x7f0]: 32000 44100 48000 88200 96000 176400 192000

bits [0x1e]: 16 20 24 32

formats [0x5]: PCM AC3

Power states: D0 D3 EPSS

Power: setting=D0, actual=D0

Node 0x03 [Audio Output] wcaps 0x6611: 8-Channels Digital

Converter: stream=0, channel=0

Digital: Enabled KAE

Digital category: 0x0

IEC Coding Type: 0x0

PCM:

rates [0x7f0]: 32000 44100 48000 88200 96000 176400 192000

bits [0x1e]: 16 20 24 32

formats [0x5]: PCM AC3

Power states: D0 D3 EPSS

Power: setting=D0, actual=D0

Node 0x04 [Audio Output] wcaps 0x6611: 8-Channels Digital

Converter: stream=0, channel=0

Digital: Enabled KAE

Digital category: 0x0

IEC Coding Type: 0x0

PCM:

rates [0x7f0]: 32000 44100 48000 88200 96000 176400 192000

bits [0x1e]: 16 20 24 32

formats [0x5]: PCM AC3

```

Power states: D0 D3 EPSS
Power: setting=D0, actual=D0
Node 0x05 [Pin Complex] wcaps 0x40778d: 8-Channels Digital Amp-Out CP
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1
Amp-Out vals: [0x00 0x00]
Pincap 0x0b000094: OUT Detect HBR HDMI DP
Pin Default 0x18560010: [Jack] Digital Out at Int HDMI
Conn = Digital, Color = Unknown
DefAssociation = 0x1, Sequence = 0x0
Pin-ctls: 0x00:
Unsolicited: tag=00, enabled=0
Power states: D0 D3 EPSS
Power: setting=D0, actual=D0
Devices: 0
Connection: 0
In-driver Connection: 3
0x02 0x03 0x04
Node 0x06 [Pin Complex] wcaps 0x40778d: 8-Channels Digital Amp-Out CP
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1
Amp-Out vals: [0x00 0x00]
Pincap 0x0b000094: OUT Detect HBR HDMI DP
Pin Default 0x18560010: [Jack] Digital Out at Int HDMI
Conn = Digital, Color = Unknown
DefAssociation = 0x1, Sequence = 0x0
Pin-ctls: 0x00:
Unsolicited: tag=00, enabled=0
Power states: D0 D3 EPSS
Power: setting=D0, actual=D0
Devices: 0
Connection: 0
In-driver Connection: 3
0x02 0x03 0x04
Node 0x07 [Pin Complex] wcaps 0x40778d: 8-Channels Digital Amp-Out CP
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1
Amp-Out vals: [0x00 0x00]
Pincap 0x0b000094: OUT Detect HBR HDMI DP
Pin Default 0x18560010: [Jack] Digital Out at Int HDMI
Conn = Digital, Color = Unknown
DefAssociation = 0x1, Sequence = 0x0
Pin-ctls: 0x00:
Unsolicited: tag=00, enabled=0
Power states: D0 D3 EPSS
Power: setting=D0, actual=D0
Devices: 0
Connection: 0
In-driver Connection: 3
0x02 0x03 0x04
Node 0x08 [Vendor Defined Widget] wcaps 0xf00000: Mono
--endcollapse--

```

!!ALSA Device nodes

!!-----

crw-rw----+ 1 root audio 116, 2 Apr 7 11:55 /dev/snd/controlC0
crw-rw----+ 1 root audio 116, 8 Apr 7 11:55 /dev/snd/hwC0D0
crw-rw----+ 1 root audio 116, 7 Apr 7 11:55 /dev/snd/pcmC0D10p
crw-rw----+ 1 root audio 116, 3 Apr 7 17:22 /dev/snd/pcmC0D3p
crw-rw----+ 1 root audio 116, 4 Apr 7 11:55 /dev/snd/pcmC0D7p
crw-rw----+ 1 root audio 116, 5 Apr 7 11:55 /dev/snd/pcmC0D8p
crw-rw----+ 1 root audio 116, 6 Apr 7 11:55 /dev/snd/pcmC0D9p
crw-rw----+ 1 root audio 116, 1 Apr 7 11:55 /dev/snd/seq
crw-rw----+ 1 root audio 116, 33 Apr 7 11:55 /dev/snd/timer

/dev/snd/by-path:

total 0

drwxr-xr-x 2 root root 60 Apr 7 11:55 .

drwxr-xr-x 3 root root 240 Apr 7 11:55 ..

lrwxrwxrwx 1 root root 12 Apr 7 11:55 pci-0000:00:03.0 -> ../controlC0

!!Aplay/Arecord output

!!-----

APLAY

***** List of PLAYBACK Hardware Devices *****

card 0: HDMI [HDA Intel HDMI], device 3: HDMI 0 [HDMI 0]

Subdevices: 1/1

Subdevice #0: subdevice #0

card 0: HDMI [HDA Intel HDMI], device 7: HDMI 1 [HDMI 1]

Subdevices: 1/1

Subdevice #0: subdevice #0

card 0: HDMI [HDA Intel HDMI], device 8: HDMI 2 [HDMI 2]

Subdevices: 1/1

Subdevice #0: subdevice #0

card 0: HDMI [HDA Intel HDMI], device 9: HDMI 3 [HDMI 3]

Subdevices: 1/1

Subdevice #0: subdevice #0

card 0: HDMI [HDA Intel HDMI], device 10: HDMI 4 [HDMI 4]

Subdevices: 1/1

Subdevice #0: subdevice #0

ARECORD

***** List of CAPTURE Hardware Devices *****

!!Amixer output

!!-----

!!-----Mixer controls for card 0 [HDMI]

Card hw:0 'HDMI'/HDA Intel HDMI at 0xc1310000 irq 51'

Mixer name : 'Intel Broadwell HDMI'

Mono: Playback [on]

!!-----

type IEC958

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

        iface PCM
        device 10
        name ELD
        value "
        comment {
            access 'read volatile'
            type BYTES
            count 0
        }
    }
control.31 {
    iface PCM
    device 3
    name 'Playback Channel Map'
    value.0 0
    value.1 0
    value.2 0
    value.3 0
    value.4 0
    value.5 0
    value.6 0
    value.7 0
    comment {
        access 'read write'
        type INTEGER
        count 8
        range '0 - 36'
    }
}
control.32 {
    iface PCM
    device 7
    name 'Playback Channel Map'
    value.0 0
    value.1 0
    value.2 0
    value.3 0
    value.4 0
    value.5 0
    value.6 0
    value.7 0
    comment {
        access 'read write'
        type INTEGER
        count 8
        range '0 - 36'
    }
}
control.33 {
    iface PCM
    device 8
    name 'Playback Channel Map'

```

```

        value.0 0
        value.1 0
        value.2 0
        value.3 0
        value.4 0
        value.5 0
        value.6 0
        value.7 0
        comment {
            access 'read write'
            type INTEGER
            count 8
            range '0 - 36'
        }
    }
control.34 {
    iface PCM
    device 9
    name 'Playback Channel Map'
    value.0 0
    value.1 0
    value.2 0
    value.3 0
    value.4 0
    value.5 0
    value.6 0
    value.7 0
    comment {
        access 'read write'
        type INTEGER
        count 8
        range '0 - 36'
    }
}
control.35 {
    iface PCM
    device 10
    name 'Playback Channel Map'
    value.0 0
    value.1 0
    value.2 0
    value.3 0
    value.4 0
    value.5 0
    value.6 0
    value.7 0
    comment {
        access 'read write'
        type INTEGER
        count 8
        range '0 - 36'
    }
}

```

```
    }  
}  
--endcollapse--
```

!!All Loaded Modules

!!-----

Module

snd_hda_codec_hdmi
snd_hda_intel
snd_hda_codec
snd_hda_core
snd_hwdep
snd_pcm
snd_seq
snd_seq_device
snd_timer
snd
soundcore
lp
parport_pc
ppdev
parport
st
sr_mod
cdrom
fuse
rfcomm
af_packet
arc4
nf_log_ipv6
xt_comment
nf_log_ipv4
nf_log_common
xt_LOG
xt_limit
rtsx_usb_sdmmc
rtsx_usb_ms
mmc_core
memstick
rtsx_usb
ip6t_REJECT
nf_reject_ipv6
nf_conntrack_ipv6
nf_defrag_ipv6
ipt_REJECT
nf_reject_ipv4
xt_pkttype
xt_tcpudp
iptables_filter
ip6table_mangle

nf_conntrack_netbios_ns
nf_conntrack_broadcast
nf_conntrack_ipv4
nf_defrag_ipv4
ip_tables
xt_conntrack
nf_conntrack
ip6table_filter
ip6_tables
x_tables
bnep
msr
intel_rapl
x86_pkg_temp_thermal
intel_powerclamp
coretemp
kvm_intel
xfs
kvm
nls_iso8859_1
libcrc32c
ath10k_pci
irqbypass
crct10dif_pclmul
nls_cp437
crc32_pclmul
ath10k_core
hid_logitech_hidpp
crc32c_intel
vfat
fat
ath
ghash_clmulni_intel
pcbc
mac80211
hid_logitech_dj
hid_generic
iTCO_wdt
iTCO_vendor_support
wmi_bmf
uvcvideo
videobuf2_vmalloc
videobuf2_memops
videobuf2_v4l2
aesni_intel
videodev
btusb
btrtl
btbcm
btintel
aes_x86_64
crypto_simd

glue_helper
cryptd
videobuf2_common
cfg80211
bluetooth
joydev
r8169
usbhid
mei_me
ideapad_laptop
pcspkr
i2c_i801
mii
inv_mpu6050_i2c
ecdh_generic
sparse_keymap
lpc_ich
mei
inv_mpu6050
shpchp
rfkill
fan
thermal
wmi
industrialio_triggered_buffer
kfifo_buf
i2c_mux
battery
ac
industrialio
acpi_pad
i915
i2c_algo_bit
drm_kms_helper
syscopyarea
sysfillrect
xhci_pci
ehci_pci
sysimgblt
fb_sys_fops
xhci_hcd
ehci_hcd
drm
serio_raw
usbcore
video
button
sg
efivarfs

!!Sysfs Files

!!-----

/sys/class/sound/hwC0D0/init_pin_configs:

0x05 0x18560010

0x06 0x18560010

0x07 0x18560010

/sys/class/sound/hwC0D0/driver_pin_configs:

/sys/class/sound/hwC0D0/user_pin_configs:

/sys/class/sound/hwC0D0/init_verbs:

/sys/class/sound/hwC0D0/hints:

!!ALSA/HDA dmesg

!!-----

[5.000457] Adding 2104316k swap on /dev/sda2. Priority:-2 extents:1 across:2104316k SSFS

[5.031189] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops

i915_audio_component_bind_ops [i915])

[5.034812] snd_hda_intel 0000:00:1b.0: no codecs found!

[5.046272] input: Logitech Unifying Device. Wireless PID:400a as

/devices/pci0000:00/0000:00:14.0/usb2/2-2/2-

2:1.2/0003:046D:C52B.0003/0003:046D:400A.0004/input/input10

--

[5.090340] ath10k_pci 0000:03:00.0: pci irq msi oper_irq_mode 2 irq_mode 0 reset_mode 0

[5.092238] input: HDA Intel HDMI HDMI/DP,pcm=3 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input11

[5.100055] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt.

Please run fsck.

[5.120174] input: HDA Intel HDMI HDMI/DP,pcm=7 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input12

[5.120256] input: HDA Intel HDMI HDMI/DP,pcm=8 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input13

[5.120335] input: HDA Intel HDMI HDMI/DP,pcm=9 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input14

[5.120407] input: HDA Intel HDMI HDMI/DP,pcm=10 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input15

[5.127711] input: Logitech M325 as /devices/pci0000:00/0000:00:14.0/usb2/2-2/2-

2:1.2/0003:046D:C52B.0003/0003:046D:400A.0004/input/input16

--

[2490.211426] EDD information not available.

[2906.641309] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops

i915_audio_component_bind_ops [i915])

[2906.646021] snd_hda_intel 0000:00:1b.0: no codecs found!

[2906.654339] input: HDA Intel HDMI HDMI/DP,pcm=3 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input17

[2906.654438] input: HDA Intel HDMI HDMI/DP,pcm=7 as

/devices/pci0000:00/0000:00:03.0/sound/card0/input18

[2906.654515] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input19
[2906.654594] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input20
[2906.654671] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input21
[2950.774511] perf: interrupt took too long (3341 > 3287), lowering
kernel.perf_event_max_sample_rate to 59750
[2954.714195] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[2954.720808] snd_hda_intel 0000:00:1b.0: no codecs found!
[2954.729177] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input22
[2954.729262] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input23
[2954.729340] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input24
[2954.729416] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input25
[2954.729493] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input26
[3003.171260] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[3003.175805] snd_hda_intel 0000:00:1b.0: no codecs found!
[3003.182765] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input27
[3003.182852] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input28
[3003.182935] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input29
[3003.183019] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input30
[3003.183102] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input31
[3014.749117] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[3014.753691] snd_hda_intel 0000:00:1b.0: no codecs found!
[3014.762100] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input32
[3014.762196] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input33
[3014.762286] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input34
[3014.762422] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input35
[3014.762979] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input36
[5479.176305] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[5479.183772] snd_hda_intel 0000:00:1b.0: no codecs found!
[5479.191884] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input37

[5479.191955] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input38
[5479.192018] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input39
[5479.194906] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input40
[5479.198467] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input41
[5828.650839] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[5828.655461] snd_hda_intel 0000:00:1b.0: no codecs found!
[5828.663342] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input42
[5828.663437] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input43
[5828.663522] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input44
[5828.663603] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input45
[5828.663686] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input46
[5946.543915] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[5946.548373] snd_hda_intel 0000:00:1b.0: no codecs found!
[5946.555698] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input47
[5946.555793] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input48
[5946.555967] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input49
[5946.556043] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input50
[5946.556121] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input51
[6351.464042] perf: interrupt took too long (4264 > 4176), lowering
kernel.perf_event_max_sample_rate to 46750
[6439.849234] snd_hda_intel 0000:00:03.0: bound 0000:00:02.0 (ops
i915_audio_component_bind_ops [i915])
[6439.857381] snd_hda_intel 0000:00:1b.0: no codecs found!
[6439.865509] input: HDA Intel HDMI HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input52
[6439.865599] input: HDA Intel HDMI HDMI/DP,pcm=7 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input53
[6439.865685] input: HDA Intel HDMI HDMI/DP,pcm=8 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input54
[6439.865776] input: HDA Intel HDMI HDMI/DP,pcm=9 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input55
[6439.865863] input: HDA Intel HDMI HDMI/DP,pcm=10 as
/devices/pci0000:00/0000:00:03.0/sound/card0/input56
[18707.144905] perf: interrupt took too long (5344 > 5330), lowering
kernel.perf_event_max_sample_rate to 37250

