dmesg

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 4.9.140+ (root@ebots-hung) (gcc version 6.4.1 20170707 (Linaro GCC 6.4-2017.08) ) #4 SMP PREEMPT Wed Aug 7 14:12:54 PDT 2019

[ 0.000000] Boot CPU: AArch64 Processor [4e0f0040]

[ 0.000000] OF: fdt:memory scan node memory, reg size 48,

[ 0.000000] OF: fdt: - 80000000 , 2b000000

[ 0.000000] OF: fdt: - ab200000 , 3d800000

[ 0.000000] OF: fdt: - 100000000 , 380000000

[ 0.000000] earlycon: tegra\_comb\_uart0 at MMIO32 0x000000000c168000 (options '')

[ 0.000000] bootconsole [tegra\_comb\_uart0] enabled

[ 0.000000] Found tegra\_fbmem: 00800000@a0697000

[ 0.000000] Found lut\_mem: 00002008@a0692000

[ 0.000000] Found vpr, start=0xf0000000 size=8000000

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb1\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb1\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb2\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb2\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb3\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: fdt:Reserved memory: failed to reserve memory for node 'fb3\_carveout': base 0x0000000000000000, size 0 MiB

[ 0.000000] OF: reserved mem: initialized node ramoops\_carveout, compatible id nvidia,ramoops

[ 0.000000] OF: reserved mem: initialized node grid-of-semaphores, compatible id nvidia,gosmem

[ 0.000000] cma: Reserved 64 MiB at 0x00000000e4800000

[ 0.000000] On node 0 totalpages: 4095485

[ 0.000000] DMA zone: 6648 pages used for memmap

[ 0.000000] DMA zone: 0 pages reserved

[ 0.000000] DMA zone: 425469 pages, LIFO batch:31

[ 0.000000] Normal zone: 57344 pages used for memmap

[ 0.000000] Normal zone: 3670016 pages, LIFO batch:31

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: PSCIv1.0 detected in firmware.

[ 0.000000] psci: Using standard PSCI v0.2 function IDs

[ 0.000000] psci: MIGRATE\_INFO\_TYPE not supported.

[ 0.000000] psci: SMC Calling Convention v1.1

[ 0.000000] percpu: Embedded 25 pages/cpu @ffffffc3ffd96000 s61592 r8192 d32616 u102400

[ 0.000000] pcpu-alloc: s61592 r8192 d32616 u102400 alloc=25\*4096

[ 0.000000] pcpu-alloc: [0] 0 [0] 1 [0] 2 [0] 3 [0] 4 [0] 5 [0] 6 [0] 7

[ 0.000000] Speculative Store Bypass Disable mitigation not required

[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 4031493

[ 0.000000] Kernel command line: root=/dev/mmcblk0p1 rw rootwait rootfstype=ext4 console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifnames=0 rootfstype=ext4 video=tegrafb no\_console\_suspend=1 earlycon=tegra\_comb\_uart,mmio32,0x0c168000 gpt tegra\_fbmem=0x800000@0xa0697000 lut\_mem=0x2008@0xa0692000 usbcore.old\_scheme\_first=1 tegraid=19.1.2.0.0 maxcpus=8 boot.slot\_suffix= boot.ratchetvalues=0.4.2 vpr=0x8000000@0xf0000000 sdhci\_tegra.en\_boot\_part\_access=1

[ 0.000000] log\_buf\_len individual max cpu contribution: 32768 bytes

[ 0.000000] log\_buf\_len total cpu\_extra contributions: 229376 bytes

[ 0.000000] log\_buf\_len min size: 32768 bytes

[ 0.000000] log\_buf\_len: 262144 bytes

[ 0.000000] early log buf free: 29300(89%)

[ 0.000000] PID hash table entries: 4096 (order: 3, 32768 bytes)

[ 0.000000] Dentry cache hash table entries: 2097152 (order: 12, 16777216 bytes)

[ 0.000000] Inode-cache hash table entries: 1048576 (order: 11, 8388608 bytes)

[ 0.000000] Memory: 15987380K/16381940K available (15038K kernel code, 2912K rwdata, 6560K rodata, 8576K init, 611K bss, 329024K reserved, 65536K cma-reserved)

[ 0.000000] Virtual kernel memory layout:

[ 0.000000] modules : 0xffffff8000000000 - 0xffffff8008000000 ( 128 MB)

[ 0.000000] vmalloc : 0xffffff8008000000 - 0xffffffbebfff0000 ( 250 GB)

[ 0.000000] .text : 0xffffff8008080000 - 0xffffff8008f30000 ( 15040 KB)

[ 0.000000] .rodata : 0xffffff8008f30000 - 0xffffff80095a0000 ( 6592 KB)

[ 0.000000] .init : 0xffffff80095a0000 - 0xffffff8009e00000 ( 8576 KB)

[ 0.000000] .data : 0xffffff8009e00000 - 0xffffff800a0d8008 ( 2913 KB)

[ 0.000000] .bss : 0xffffff800a0d8008 - 0xffffff800a170d3c ( 612 KB)

[ 0.000000] fixed : 0xffffffbefe7fd000 - 0xffffffbefec00000 ( 4108 KB)

[ 0.000000] PCI I/O : 0xffffffbefee00000 - 0xffffffbeffe00000 ( 16 MB)

[ 0.000000] vmemmap : 0xffffffbf00000000 - 0xffffffc000000000 ( 4 GB maximum)

[ 0.000000] 0xffffffbf00000000 - 0xffffffbf10000000 ( 256 MB actual)

[ 0.000000] memory : 0xffffffc000000000 - 0xffffffc400000000 ( 16384 MB)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=8, Nodes=1

[ 0.000000] Preemptible hierarchical RCU implementation.

[ 0.000000] Build-time adjustment of leaf fanout to 64.

[ 0.000000] RCU restricting CPUs from NR\_CPUS=64 to nr\_cpu\_ids=8.

[ 0.000000] RCU: Adjusting geometry for rcu\_fanout\_leaf=64, nr\_cpu\_ids=8

[ 0.000000] NR\_IRQS:64 nr\_irqs:64 0

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] arm\_arch\_timer: Architected cp15 timer(s) running at 31.25MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0xe6a171046, max\_idle\_ns: 881590405314 ns

[ 0.000015] sched\_clock: 56 bits at 31MHz, resolution 32ns, wraps every 4398046511088ns

[ 0.008793] Console: colour dummy device 80x25

[ 0.012171] console [tty0] enabled

[ 0.015910] bootconsole [tegra\_comb\_uart0] disabled

[ 0.020877] kmemleak: Kernel memory leak detector disabled

[ 0.020974] Calibrating delay loop (skipped), value calculated using timer frequency.. 62.50 BogoMIPS (lpj=125000)

[ 0.021067] pid\_max: default: 32768 minimum: 301

[ 0.022563] Security Framework initialized

[ 0.023332] Mount-cache hash table entries: 32768 (order: 6, 262144 bytes)

[ 0.023410] Mountpoint-cache hash table entries: 32768 (order: 6, 262144 bytes)

[ 0.025753] ftrace: allocating 46905 entries in 184 pages

[ 0.469352] sched-energy: Sched-energy-costs installed from DT

[ 0.469560] ASID allocator initialised with 65536 entries

[ 0.509367] tegra-id: chipid=21917.

[ 0.509415] tegra-id: opt\_subrevision=0.

[ 0.509505] Tegra Revision: A02 SKU: 0xd0 CPU Process: 0 SoC Process: 0

[ 0.509601] DTS File Name: ../arch/arm64/boot/dts/../../../../../../hardware/nvidia/platform/t19x/galen/kernel-dts/common/tegra194-p2888-0001-p2822-0000-common.dtsi

[ 0.509655] DTB Build time: Aug 14 2019 10:23:14

[ 0.558120] CPU1: Booted secondary processor [4e0f0040]

[ 0.589630] CPU2: Booted secondary processor [4e0f0040]

[ 0.622092] CPU3: Booted secondary processor [4e0f0040]

[ 0.654478] CPU4: Booted secondary processor [4e0f0040]

[ 0.686820] CPU5: Booted secondary processor [4e0f0040]

[ 0.719349] CPU6: Booted secondary processor [4e0f0040]

[ 0.751558] CPU7: Booted secondary processor [4e0f0040]

[ 0.752039] Brought up 8 CPUs

[ 0.752404] SMP: Total of 8 processors activated.

[ 0.752452] CPU features: detected feature: Privileged Access Never

[ 0.752530] CPU features: detected feature: LSE atomic instructions

[ 0.752570] CPU features: detected feature: User Access Override

[ 0.752608] CPU features: detected feature: 32-bit EL0 Support

[ 0.755331] CPU: All CPU(s) started at EL2

[ 0.755454] alternatives: patching kernel code

[ 0.765182] devtmpfs: initialized

[ 0.860859] Initilizing CustomIPI irq domain

[ 0.861615] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 7645041785100000 ns

[ 0.861679] futex hash table entries: 2048 (order: 5, 131072 bytes)

[ 0.863827] pinctrl core: initialized pinctrl subsystem

[ 0.864122] OS set in device tree is not L4T.

[ 0.864478] regulator-dummy: no parameters

[ 0.864893] Initializing plugin-manager

[ 0.864968] Plugin module not found

[ 0.865030] Plugin-manager status disabled

[ 0.866838] NET: Registered protocol family 16

[ 0.876066] pstore: using zlib compression

[ 0.877636] console [pstore-1] enabled

[ 0.877671] pstore: Registered ramoops as persistent store backend

[ 0.877725] ramoops: attached 0x200000@0xe8800000, ecc: 0/0

[ 0.894393] cpuidle: using governor menu

[ 0.895827] bpmp: waiting for handshake

[ 0.895917] bpmp: handshake completed

[ 0.895970] bpmp: synchronizing channels

[ 0.896012] bpmp: channels synchronized

[ 0.896052] bpmp: mail init ok

[ 0.900393] t19x-arm-smmu 12000000.iommu: found 3 SMMUs and ISO SMMU id is 2

[ 0.900733] t19x-arm-smmu 12000000.iommu: probing hardware configuration...

[ 0.900782] t19x-arm-smmu 12000000.iommu: SMMUv2 with:

[ 0.900823] t19x-arm-smmu 12000000.iommu: stage 1 translation

[ 0.900873] t19x-arm-smmu 12000000.iommu: stage 2 translation

[ 0.900949] t19x-arm-smmu 12000000.iommu: nested translation

[ 0.900994] t19x-arm-smmu 12000000.iommu: stream matching with 128 register groups, mask 0x7f80

[ 0.901049] t19x-arm-smmu 12000000.iommu: SMMU address space size (0x800000) differs from mapped region size (0x1000000)!

[ 0.901107] t19x-arm-smmu 12000000.iommu: 64 context banks (0 stage-2 only)

[ 0.901155] t19x-arm-smmu 12000000.iommu: Stage-1: 39-bit VA -> 48-bit IPA

[ 0.901201] t19x-arm-smmu 12000000.iommu: Stage-2: 39-bit IPA -> 48-bit PA

[ 0.907484] vdso: 2 pages (1 code @ ffffff8008f37000, 1 data @ ffffff8009e04000)

[ 0.907782] hw-breakpoint: found 6 breakpoint and 4 watchpoint registers.

[ 0.912432] atomic\_pool\_init():622: DMA: preallocated 1024 KiB pool for atomic allocations

[ 0.913674] Registering BPMP clocks...

[ 0.913872] tegra\_bpmp\_clk\_init: clock init ok (400 clks)

[ 0.914941] tegra\_powergate\_init: DONE

[ 0.915111] DTS File Name: ../arch/arm64/boot/dts/../../../../../../hardware/nvidia/platform/t19x/galen/kernel-dts/common/tegra194-p2888-0001-p2822-0000-common.dtsi

[ 0.915263] DTB Build time: Aug 14 2019 10:23:14

[ 0.919802] Tegra reboot handler registered.

[ 0.931644] iommu: Adding device 14180000.pcie to group 0

[ 0.932680] iommu: Adding device 14100000.pcie to group 1

[ 0.933761] iommu: Adding device 14140000.pcie to group 2

[ 0.934878] iommu: Adding device 141a0000.pcie to group 3

[ 0.937056] iommu: Adding device 2490000.ether\_qos to group 4

[ 0.937877] iommu: Adding device 3100000.serial to group 5

[ 0.938739] iommu: Adding device 3110000.serial to group 6

[ 0.939379] iommu: Adding device 3140000.serial to group 7

[ 0.940361] tegra-pmc c360000.pmc: scratch reg offset dts data not present

[ 0.940665] tegra-pmc: get\_secure\_pmc\_setting: done secure\_pmc=0

[ 0.940742] tegra-pmc: ### PMC reset source: TEGRA\_SOFTWARE\_RESET

[ 0.940815] tegra-pmc: ### PMC reset level: TEGRA\_RESET\_LEVEL\_L1

[ 0.940858] tegra-pmc: ### PMC reset status reg: 0x2d

[ 0.940958] tegra-pmc: PMC Prod config success

[ 0.941281] padctrl padctrl.0: Pad control driver tegra-pmc-padctrl registered

[ 0.941370] tegra-pmc c360000.pmc: IO padctrl driver initialized

[ 0.941995] iommu: Adding device 3460000.sdhci to group 8

[ 0.942908] iommu: Adding device 3400000.sdhci to group 9

[ 0.943704] iommu: Adding device 2450000.ufshci to group 10

[ 0.944550] iommu: Adding device c260000.spi to group 11

[ 0.945977] iommu: Adding device 3160000.i2c to group 12

[ 0.946631] iommu: Adding device c240000.i2c to group 13

[ 0.947468] iommu: Adding device 3180000.i2c to group 14

[ 0.948177] iommu: Adding device 3190000.i2c to group 15

[ 0.949007] iommu: Adding device 31b0000.i2c to group 16

[ 0.949693] iommu: Adding device 31c0000.i2c to group 17

[ 0.950373] iommu: Adding device c250000.i2c to group 18

[ 0.951027] iommu: Adding device 31e0000.i2c to group 19

[ 0.952260] iommu: Adding device sound to group 20

[ 0.953117] iommu: Adding device 3510000.hda to group 21

[ 0.954018] iommu: Adding device bc00000.rtcpu to group 22

[ 0.957043] iommu: Adding device 13e10000.host1x to group 23

[ 0.957753] iommu: Adding device 13e10000.host1x:ctx0 to group 24

[ 0.958439] iommu: Adding device 13e10000.host1x:ctx1 to group 25

[ 0.959186] iommu: Adding device 13e10000.host1x:ctx2 to group 26

[ 0.959818] iommu: Adding device 13e10000.host1x:ctx3 to group 27

[ 0.960422] iommu: Adding device 13e10000.host1x:ctx4 to group 28

[ 0.961078] iommu: Adding device 13e10000.host1x:ctx5 to group 29

[ 0.961718] iommu: Adding device 13e10000.host1x:ctx6 to group 30

[ 0.962369] iommu: Adding device 13e10000.host1x:ctx7 to group 31

[ 0.963301] iommu: Adding device 15340000.vic to group 32

[ 0.963981] iommu: Adding device 15380000.nvjpg to group 33

[ 0.964481] iommu: Adding device 15500000.tsec to group 34

[ 0.964934] iommu: Adding device 15100000.tsecb to group 35

[ 0.965412] iommu: Adding device 15480000.nvdec to group 36

[ 0.965925] iommu: Adding device 15140000.nvdec1 to group 37

[ 0.966389] iommu: Adding device 154c0000.nvenc to group 38

[ 0.967001] iommu: Adding device 15a80000.nvenc1 to group 39

[ 0.967863] iommu: Adding device 15880000.nvdla0 to group 40

[ 0.968548] iommu: Adding device 158c0000.nvdla1 to group 41

[ 0.969457] iommu: Adding device 15200000.nvdisplay to group 42

[ 0.969953] platform 15200000.nvdisplay: IOVA linear map 0x00000000a0697000(800000)

[ 0.970040] platform 15200000.nvdisplay: IOVA linear map 0x00000000a0692000(3000)

[ 0.971379] platform 15200000.nvdisplay: IOVA linear map 0x00000000f0000000(8000000)

[ 0.971460] t19x-arm-smmu: Adding 15200000.nvdisplay to ISO SMMU client

[ 0.972119] iommu: Adding device 15210000.nvdisplay to group 43

[ 0.972231] t19x-arm-smmu: Adding 15210000.nvdisplay to ISO SMMU client

[ 0.972885] iommu: Adding device 15220000.nvdisplay to group 44

[ 0.972996] t19x-arm-smmu: Adding 15220000.nvdisplay to ISO SMMU client

[ 0.976103] iommu: Adding device 15c10000.vi to group 45

[ 0.976427] t19x-arm-smmu: Adding 15c10000.vi to ISO SMMU client

[ 0.977055] iommu: Adding device 14800000.isp to group 46

[ 0.979109] iommu: Adding device 16000000.pva0 to group 47

[ 0.980046] iommu: Adding device 16800000.pva1 to group 48

[ 0.980696] iommu: Adding device 15810000.se to group 49

[ 0.981404] iommu: Adding device 15820000.se to group 50

[ 0.981889] iommu: Adding device 15830000.se to group 51

[ 0.982364] iommu: Adding device 15840000.se to group 52

[ 0.982821] iommu: Adding device c1a0000.aon to group 53

[ 0.985074] iommu: Adding device d000000.bpmp to group 54

[ 0.985607] bpmp: ping status is 0

[ 0.985840] bpmp d000000.bpmp: firmware tag is c1b4e372932429f2737cf722e1219e71

[ 0.990360] bpmp d000000.bpmp: probe ok

[ 0.992808] tegra-reset 0.bpmp\_reset: registered 186 resets.

[ 0.993596] iommu: Adding device smmu\_test to group 55

[ 0.995289] mc: mapped MMIO address: 0xffffff800a540000 -> 0x2c10000

[ 0.995379] mc: mapped MMIO address: 0xffffff800a560000 -> 0x2c20000

[ 0.995458] mc: mapped MMIO address: 0xffffff800a580000 -> 0x2c30000

[ 0.995575] mc: mapped MMIO address: 0xffffff800a5a0000 -> 0x2c40000

[ 0.995657] mc: mapped MMIO address: 0xffffff800a5c0000 -> 0x2c50000

[ 0.995734] mc: mapped MMIO address: 0xffffff800a5e0000 -> 0x2b80000

[ 0.995808] mc: mapped MMIO address: 0xffffff800a7b0000 -> 0x2b90000

[ 0.995900] mc: mapped MMIO address: 0xffffff800a7d0000 -> 0x2ba0000

[ 0.995974] mc: mapped MMIO address: 0xffffff800b010000 -> 0x2bb0000

[ 0.996046] mc: mapped MMIO address: 0xffffff800b030000 -> 0x1700000

[ 0.996116] mc: mapped MMIO address: 0xffffff800b050000 -> 0x1710000

[ 0.996197] mc: mapped MMIO address: 0xffffff800b070000 -> 0x1720000

[ 0.996277] mc: mapped MMIO address: 0xffffff800b090000 -> 0x1730000

[ 0.996353] mc: mapped MMIO address: 0xffffff800b0b0000 -> 0x1740000

[ 0.996431] mc: mapped MMIO address: 0xffffff800b0d0000 -> 0x1750000

[ 0.996535] mc: mapped MMIO address: 0xffffff800b0f0000 -> 0x1760000

[ 0.996629] mc: mapped MMIO address: 0xffffff800b110000 -> 0x1770000

[ 0.996894] mc-err: mcerr ops are set to t19x

[ 1.006195] iommu: Adding device 2600000.dma to group 56

[ 1.014569] GPIO line 490 (pcie-reg-enable) hogged as output/high

[ 1.014681] GPIO line 289 (pcie-reg-enable) hogged as output/high

[ 1.014811] GPIO line 339 (wifi-enable) hogged as output/high

[ 1.015428] gpiochip\_setup\_dev: registered GPIOs 288 to 511 on device: gpiochip0 (tegra-gpio)

[ 1.027625] GPIO line 253 (pex-refclk-sel-low) hogged as output/low

[ 1.028310] gpiochip\_setup\_dev: registered GPIOs 248 to 287 on device: gpiochip1 (tegra-gpio-aon)

[ 1.031944] tegra186-aowake c370000.pmc: WAKE\_AOWAKE\_CTRL\_0 = 3

[ 1.032006] tegra186-aowake c370000.pmc: WAKE\_AOWAKE\_CNTRL\_24(PMU\_INT) = 256

[ 1.033272] iommu: Adding device 3550000.xudc to group 57

[ 1.034415] iommu: Adding device 3610000.xhci to group 58

[ 1.038041] arm64\_ras arm64\_ras: probed

[ 1.038793] ras\_fhi\_enable: FHI 477 enabled on CPU0

[ 1.038910] ras\_fhi\_enable: FHI 478 enabled on CPU1

[ 1.039140] ras\_fhi\_enable: FHI 479 enabled on CPU2

[ 1.039287] ras\_fhi\_enable: FHI 480 enabled on CPU3

[ 1.039403] ras\_fhi\_enable: FHI 481 enabled on CPU4

[ 1.039539] ras\_fhi\_enable: FHI 482 enabled on CPU5

[ 1.039677] ras\_fhi\_enable: FHI 483 enabled on CPU6

[ 1.039872] ras\_fhi\_enable: FHI 484 enabled on CPU7

[ 1.040255] carmel\_ras\_enable: RAS enabled on cpu0

[ 1.040585] carmel\_ras\_enable: RAS enabled on cpu1

[ 1.040897] carmel\_ras\_enable: RAS enabled on cpu2

[ 1.041232] carmel\_ras\_enable: RAS enabled on cpu3

[ 1.041583] carmel\_ras\_enable: RAS enabled on cpu4

[ 1.041896] carmel\_ras\_enable: RAS enabled on cpu5

[ 1.042188] carmel\_ras\_enable: RAS enabled on cpu6

[ 1.042498] carmel\_ras\_enable: RAS enabled on cpu7

[ 1.042703] carmel\_ras carmel\_ras: probed

[ 1.044346] tegra-cbb 2300000.cbb-noc: noc\_secure\_irq = 486, noc\_nonsecure\_irq = 485>

[ 1.045206] tegra-cbb c600000.aon-noc: noc\_secure\_irq = 488, noc\_nonsecure\_irq = 487>

[ 1.046385] tegra-cbb d600000.bpmp-noc: noc\_secure\_irq = 490, noc\_nonsecure\_irq = 489>

[ 1.047582] tegra-cbb be00000.rce-noc: noc\_secure\_irq = 492, noc\_nonsecure\_irq = 491>

[ 1.048675] tegra-cbb b600000.sce-noc: noc\_secure\_irq = 494, noc\_nonsecure\_irq = 493>

[ 1.049228] tegra-cbb 14040000.cv-noc: defer probe as CV-NOC not probed yet

[ 1.053007] vdd-3v3-cvb: 3300 mV

[ 1.053507] vdd-1v8-cvb: 1800 mV

[ 1.054097] vdd-1v8-sd: 1800 mV

[ 1.054735] vdd-epb-1v0: supplied by vdd-3v3-cvb

[ 1.054877] vdd-epb-1v0: 1000 mV

[ 1.055490] vdd-sdmmc1-sw: 3300 mV

[ 1.056019] avdd-cam-2v8: 2800 mV

[ 1.056519] vdd-sata-1v5: 1500 mV

[ 1.056976] vdd-1v8-slt: 1800 mV

[ 1.057476] vdd-3v3-slt: 3300 mV

[ 1.057946] vdd-fan: 5000 mV

[ 1.058566] vdd-hdmi-5v0: 5000 mV

[ 1.059161] vdd\_sys\_en: 1200 mV

[ 1.059831] vdd-5v-sata: 5000 mV

[ 1.060418] vdd-ac-bat: 5000 mV

[ 1.060753] vdd-5v-sata: supplied by vdd-ac-bat

[ 1.104580] HugeTLB registered 2 MB page size, pre-allocated 0 pages

[ 1.110599] eventlib\_kernel: keventlib is initialized, test id: 0

[ 1.111112] SCSI subsystem initialized

[ 1.111655] libata version 3.00 loaded.

[ 1.112021] usbcore: registered new interface driver usbfs

[ 1.112149] usbcore: registered new interface driver hub

[ 1.112372] usbcore: registered new device driver usb

[ 1.126165] tegra-i2c 31e0000.i2c: could not find pctldev for node /host1x/dpaux@155F0000/pinmux@0, deferring probe

[ 1.129495] max77620 4-003c: PMIC Version OTP:0x51 and ES:0x1

[ 1.140479] vdd-1v0: at 1000 mV

[ 1.147667] vdd-1v8-hs: at 1800 mV

[ 1.155619] vdd-1v8-ls: at 1800 mV

[ 1.159722] vdd-1v8-ao: at 1800 mV

[ 1.167752] vddio-ddr-1v1: at 1100 mV

[ 1.175577] vdd-rtc: at 800 mV

[ 1.176814] spmic-ldo1: at 2375 mV

[ 1.187634] vdd-ao-3v3: at 3300 mV

[ 1.195683] vddio-emmc-3v3: at 3300 mV

[ 1.196876] spmic-ldo4: at 1587 mV

[ 1.207745] vdd-usb-3v3: at 3300 mV

[ 1.215810] vddio-sdmmc1-3v3: at 3300 mV

[ 1.219814] vdd-csi-1v2: at 1200 mV

[ 1.221199] spmic-ldo8: at 1800 mV

[ 1.222776] GPIO line 246 (gpio\_default) hogged as output/high

[ 1.223854] GPIO line 247 (gpio\_default) hogged as output/high

[ 1.224396] gpiochip\_setup\_dev: registered GPIOs 240 to 247 on device: gpiochip2 (max77620-gpio)

[ 1.228309] max77620 4-003c: max77620 probe successful

[ 1.229357] media: Linux media interface: v0.10

[ 1.229488] Linux video capture interface: v2.00

[ 1.231496] pps\_core: LinuxPPS API ver. 1 registered

[ 1.231539] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>

[ 1.231613] PTP clock support registered

[ 1.232402] tegra\_wdt\_t18x 30c0000.watchdog: Tegra WDT init timeout = 120 sec

[ 1.232482] tegra\_wdt\_t18x 30c0000.watchdog: Registered successfully

[ 1.233940] tegra\_fiq\_debugger\_init: found FIQ source (IRQ 469)

[ 1.237658] trusty trusty: trusty version: Built: 16:57:18 Jul 16 2019

[ 1.237776] trusty trusty: selected api version: 3 (requested 3)

[ 1.239355] Advanced Linux Sound Architecture Driver Initialized.

[ 1.240122] Bluetooth: Core ver 2.22

[ 1.240203] NET: Registered protocol family 31

[ 1.240234] Bluetooth: HCI device and connection manager initialized

[ 1.240294] Bluetooth: HCI socket layer initialized

[ 1.240336] Bluetooth: L2CAP socket layer initialized

[ 1.240393] Bluetooth: SCO socket layer initialized

[ 1.243929] camchar: rtcpu character device driver loaded

[ 1.245446] clocksource: Switched to clocksource arch\_sys\_counter

[ 1.299300] VFS: Disk quotas dquot\_6.6.0

[ 1.299468] VFS: Dquot-cache hash table entries: 512 (order 0, 4096 bytes)

[ 1.300235] nvmap\_heap\_init: nvmap\_heap\_init: created heap block cache

[ 1.302175] tegra-carveouts tegra-carveouts: assigned reserved memory node grid-of-semaphores

[ 1.302305] tegra-carveouts tegra-carveouts: vpr :dma coherent mem declare 0x00000000f0000000,134217728

[ 1.302356] nvmap: nvmap\_select\_cache\_ops() nvmap cache ops set to scf

[ 1.302389] nvmap\_page\_pool\_init: Total RAM pages: 4013229

[ 1.302420] nvmap\_page\_pool\_init: nvmap page pool size: 501653 pages (1959 MB)

[ 1.302880] nvmap\_background\_zero\_thread: PP zeroing thread starting.

[ 1.303488] misc nvmap: created heap vpr base 0x00000000f0000000 size (131072KiB)

[ 1.305855] tegra-gpcdma 2600000.dma: GPC DMA driver register 31 channels

[ 1.324756] thermal thermal\_zone0: Registering thermal zone thermal\_zone0 for type CPU-therm

[ 1.325154] thermal thermal\_zone1: Registering thermal zone thermal\_zone1 for type GPU-therm

[ 1.325571] thermal thermal\_zone2: Registering thermal zone thermal\_zone2 for type AUX-therm

[ 1.325899] thermal thermal\_zone3: Registering thermal zone thermal\_zone3 for type AO-therm

[ 1.326502] thermal thermal\_zone4: Registering thermal zone thermal\_zone4 for type Tdiode\_tegra

[ 1.326852] thermal thermal\_zone5: Registering thermal zone thermal\_zone5 for type PMIC-Die

[ 1.327054] thermal thermal\_zone6: Registering thermal zone thermal\_zone6 for type Tboard\_tegra

[ 1.328562] la/ptsa driver initialized.

[ 1.329104] NET: Registered protocol family 2

[ 1.330439] TCP established hash table entries: 131072 (order: 8, 1048576 bytes)

[ 1.331300] TCP bind hash table entries: 65536 (order: 8, 1048576 bytes)

[ 1.332199] TCP: Hash tables configured (established 131072 bind 65536)

[ 1.332279] UDP hash table entries: 8192 (order: 6, 262144 bytes)

[ 1.332634] UDP-Lite hash table entries: 8192 (order: 6, 262144 bytes)

[ 1.333345] NET: Registered protocol family 1

[ 1.334447] RPC: Registered named UNIX socket transport module.

[ 1.334488] RPC: Registered udp transport module.

[ 1.334517] RPC: Registered tcp transport module.

[ 1.334546] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 1.334582] PCI: CLS 0 bytes, default 64

[ 1.334962] Trying to unpack rootfs image as initramfs...

[ 1.575432] Freeing initrd memory: 5432K

[ 1.604644] host1x 13e10000.host1x: initialized

[ 1.607959] hw perfevents: enabled with armv8\_pmuv3 PMU driver, 7 counters available

[ 1.614930] audit: initializing netlink subsys (disabled)

[ 1.615024] audit: type=2000 audit(1.192:1): initialized

[ 1.616061] workingset: timestamp\_bits=46 max\_order=22 bucket\_order=0

[ 1.628235] squashfs: version 4.0 (2009/01/31) Phillip Lougher

[ 1.630037] ntfs: driver 2.1.32 [Flags: R/W].

[ 1.630982] 9p: Installing v9fs 9p2000 file system support

[ 1.638180] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 240)

[ 1.638470] io scheduler noop registered

[ 1.638799] io scheduler cfq registered (default)

[ 1.643468] gic 2a41000.agic-controller: GIC IRQ controller registered

[ 1.644912] random: fast init done

[ 1.679747] iommu: Adding device 2993000.adsp to group 59

[ 1.786393] iommu: Adding device aconnect@2a41000:adsp\_audio to group 60

[ 1.787578] tegra-aconnect aconnect@2a41000: Tegra ACONNECT bus registered

[ 1.805776] tegra-pwm 3280000.pwm: PWM clk can sleep in ops

[ 1.806517] tegra-pwm c340000.pwm: PWM clk can sleep in ops

[ 1.807347] tegra-pwm 32c0000.pwm: PWM clk can sleep in ops

[ 1.807979] tegra-pwm 32f0000.pwm: PWM clk can sleep in ops

[ 1.812192] tegra\_camera\_platform tegra-camera-platform: tegra\_camera\_probe:camera\_platform\_driver probe

[ 1.812518] misc tegra\_camera\_ctrl: tegra\_camera\_isomgr\_register tpg\_max\_iso = 3916800KBs

[ 1.812570] misc tegra\_camera\_ctrl: tegra\_camera\_isomgr\_register isp\_iso\_bw=4687500, vi\_iso\_bw=2000000, max\_bw=4687500

[ 1.816812] tsec 15500000.tsec: initialized

[ 1.819297] tsec 15100000.tsecb: initialized

[ 1.824753] nvdec 15480000.nvdec: initialized

[ 1.828356] nvdec 15140000.nvdec1: initialized

[ 1.834919] falcon 15340000.vic: initialized

[ 1.837515] falcon 15380000.nvjpg: initialized

[ 1.839843] falcon 154c0000.nvenc: initialized

[ 1.842141] falcon 15a80000.nvenc1: initialized

[ 1.845429] iommu\_context\_dev 13e10000.host1x:ctx0: initialized (streamid=56)

[ 1.848199] iommu\_context\_dev 13e10000.host1x:ctx1: initialized (streamid=57)

[ 1.850918] iommu\_context\_dev 13e10000.host1x:ctx2: initialized (streamid=58)

[ 1.852955] iommu\_context\_dev 13e10000.host1x:ctx3: initialized (streamid=59)

[ 1.855024] iommu\_context\_dev 13e10000.host1x:ctx4: initialized (streamid=60)

[ 1.857017] iommu\_context\_dev 13e10000.host1x:ctx5: initialized (streamid=61)

[ 1.859046] iommu\_context\_dev 13e10000.host1x:ctx6: initialized (streamid=62)

[ 1.861012] iommu\_context\_dev 13e10000.host1x:ctx7: initialized (streamid=63)

[ 1.865668] t194-nvcsi 15a00000.nvcsi: initialized

[ 1.872261] scare-pigeon 13e10000.host1x:vi-thi@15f00000: initialized

[ 1.872772] scare-pigeon 14b00000.isp-thi: initialized

[ 1.883135] pva 16000000.pva0: initialized

[ 1.915030] pva 16800000.pva1: initialized

[ 1.946271] nvdla 15880000.nvdla0: initialized

[ 1.977409] nvdla 158c0000.nvdla1: initialized

[ 1.981491] tegra-slvs-ec 15ac0000.slvs-ec: initialized

[ 1.981711] tegra-slvs-ec 15ac0000.slvs-ec: no streams defined

[ 1.981748] tegra-slvs-ec 15ac0000.slvs-ec: failed to init SLVS media controller (-19)

[ 1.981785] tegra-slvs-ec 15ac0000.slvs-ec: probed

[ 1.983010] tegradccommon 15200000.dc\_common: host1x channel mapped

[ 1.983066] tegradccommon 15200000.dc\_common: dc\_common syncpt # 1 allocated

[ 1.983133] tegradccommon 15200000.dc\_common: dma mapping done

[ 1.984238] tegradc 15200000.nvdisplay: disp0 connected to head0->/host1x/sor2

[ 1.984350] generic\_infoframe\_type: 0x87

[ 1.984524] tegradc 15200000.nvdisplay: DT parsed successfully

[ 1.984646] tegradc 15200000.nvdisplay: Display dc.ffffff800bd90000 registered with id=0

[ 1.991481] tegra\_nvdisp\_bandwidth\_register\_max\_config: max config iso bw = 15681600 KB/s

[ 1.991548] tegra\_nvdisp\_bandwidth\_register\_max\_config: max config EMC floor = 1066500000 Hz

[ 1.991591] tegra\_nvdisp\_bandwidth\_register\_max\_config: max config hubclk = 358400000 Hz

[ 1.991851] tegradc 15200000.nvdisplay: vblank syncpt # 8 for dc 0

[ 1.991890] tegradc 15200000.nvdisplay: vpulse3 syncpt # 9 for dc 0

[ 1.993364] tegradc 15200000.nvdisplay: Bootloader disp\_param detected. Detected mode: 1920x1080 (on 0x0mm) pclk=148350937

[ 1.995551] tegradc 15200000.nvdisplay: hdmi: invalid prod list prod\_list\_hdmi\_board

[ 1.995597] tegradc 15200000.nvdisplay: hdmi: tegra\_hdmi\_tmds\_range\_read(bd) failed

[ 1.995773] tegra-adma 2930000.adma: Tegra210 ADMA driver registered 16 channels

[ 1.997529] tegra-fuse-burn 3820000.efuse:efuse-burn: Fuse burn driver initialized

[ 1.998241] kfuse 3830000.kfuse: initialized

[ 2.000744] tegradc 15200000.nvdisplay: probed

[ 2.006606] Serial: 8250/16550 driver, 4 ports, IRQ sharing disabled

[ 2.010195] 3100000.serial: ttyTHS0 at MMIO 0x3100000 (irq = 50, base\_baud = 0) is a TEGRA\_UART

[ 2.011959] 3110000.serial: ttyTHS1 at MMIO 0x3110000 (irq = 51, base\_baud = 0) is a TEGRA\_UART

[ 2.013116] 3140000.serial: ttyTHS4 at MMIO 0x3140000 (irq = 52, base\_baud = 0) is a TEGRA\_UART

[ 4.497596] console [ttyTCU0] enabled

[ 4.498181] [drm] Initialized

[ 4.498274] Console: switching to colour frame buffer device 240x67

[ 4.510186] tegradc 15200000.nvdisplay: fb registered

[ 4.515891] gpio tegra-gpio wake71 for gpio=98(M:2)

[ 4.521180] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head0 pd

[ 4.521682] brd: module loaded

[ 4.529563] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head1 pd

[ 4.529567] loop: module loaded

[ 4.529687] tegra\_profiler: version: 1.134, samples/io: 47/26

[ 4.529893] tegra\_profiler: auth: init

[ 4.530453] nct1008\_nct72 4-004c: starting parse dt

[ 4.530577] nct1008\_nct72 4-004c: !!!Found deprecated property!!!

[ 4.530587] nct1008\_nct72 4-004c: success parsing dt

[ 4.530800] nct1008\_nct72 4-004c: success in enabling tmp451 VDD rail

[ 4.531079] THERMAL EST: found 3 subdevs

[ 4.531086] THERMAL EST num\_resources: 0

[ 4.531092] [THERMAL EST subdev 0]

[ 4.531098] [THERMAL EST subdev 1]

[ 4.531104] [THERMAL EST subdev 2]

[ 4.531114] THERMAL EST: Found 2 profiles, default profile is quiet

[ 4.531536] thermal thermal\_zone7: Registering thermal zone thermal\_zone7 for type thermal-fan-est

[ 4.531540] THERMAL EST: thz register success.

[ 4.531737] THERMAL EST: end of probe, return err: 0

[ 4.532751] ufs\_tegra 2450000.ufshci: freq-table-hz property not specified

[ 4.532760] ufs\_tegra 2450000.ufshci: ufshcd\_populate\_vreg: Unable to find vdd-hba-supply regulator, assuming enabled

[ 4.533746] ufs\_tegra 2450000.ufshci: wakeup init done, cdirq 459

[ 4.533758] gpio tegra-gpio-aon wake25 for gpio=32(EE:0)

[ 4.547290] scsi host0: ufshcd

[ 4.558274] hisi\_sas: driver version v1.6

[ 4.563428] nct1008\_nct72 4-004c: LOC shutdown limit 107

[ 4.564301] nct1008\_nct72 4-004c: EXT shutdown limit 109

[ 4.564701] libphy: Fixed MDIO Bus: probed

[ 4.565331] tun: Universal TUN/TAP device driver, 1.6

[ 4.565335] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>

[ 4.566513] e1000e: Intel(R) PRO/1000 Network Driver - 3.2.6-k

[ 4.566518] e1000e: Copyright(c) 1999 - 2015 Intel Corporation.

[ 4.566568] igb: Intel(R) Gigabit Ethernet Network Driver - version 5.4.0-k

[ 4.566571] igb: Copyright (c) 2007-2014 Intel Corporation.

[ 4.566683] igbvf: Intel(R) Gigabit Virtual Function Network Driver - version 2.4.0-k

[ 4.566687] igbvf: Copyright (c) 2009 - 2012 Intel Corporation.

[ 4.566750] Intel(R) 10GbE PCI Express Linux Network Driver - version 4.6.4

[ 4.566753] Copyright(c) 1999 - 2017 Intel Corporation.

[ 4.572503] eqos 2490000.ether\_qos: Setting local MAC: 0 4 4b cb 92 4c

[ 4.572640] libphy: dwc\_phy: probed

[ 4.575943] PPP generic driver version 2.4.2

[ 4.576203] PPP BSD Compression module registered

[ 4.576208] PPP Deflate Compression module registered

[ 4.576231] PPP MPPE Compression module registered

[ 4.576237] NET: Registered protocol family 24

[ 4.576337] usbcore: registered new interface driver r8152

[ 4.576395] usbcore: registered new interface driver asix

[ 4.576434] usbcore: registered new interface driver ax88179\_178a

[ 4.576469] usbcore: registered new interface driver cdc\_ether

[ 4.576503] usbcore: registered new interface driver net1080

[ 4.576568] usbcore: registered new interface driver cdc\_subset

[ 4.576611] usbcore: registered new interface driver zaurus

[ 4.576675] usbcore: registered new interface driver cdc\_ncm

[ 4.576906] VFIO - User Level meta-driver version: 0.3

[ 4.578379] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 4.578402] ehci-pci: EHCI PCI platform driver

[ 4.578458] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 4.578470] ohci-pci: OHCI PCI platform driver

[ 4.578532] ohci-platform: OHCI generic platform driver

[ 4.586540] tegra-xusb 3610000.xhci: USB2 port 0 has OTG\_CAP

[ 4.586548] tegra-xusb 3610000.xhci: USB3 port 2 has OTG\_CAP

[ 4.589715] Could not get extcon-dev /xhci@3610000:id(0)

[ 4.593363] usbcore: registered new interface driver uas

[ 4.593423] usbcore: registered new interface driver usb-storage

[ 4.593585] usbcore: registered new interface driver usbserial

[ 4.597774] nct1008\_nct72 4-004c: initial LOC temp: 36000

[ 4.598221] tegra-xudc-new 3550000.xudc: PMQOS CPU boost enabled

[ 4.598279] nct1008\_nct72 4-004c: initial EXT temp: 39250

[ 4.598323] Could not get extcon-dev /xudc@3550000:vbus(0)

[ 4.599267] nct1008\_nct72 4-004c: hi\_b:-10, lo\_b:128

[ 4.600349] nct1008\_nct72 4-004c: nct1008\_probe: initialized

[ 4.601687] ucsi\_ccg 1-0008: FW1 Version: gn v12.05, [Base 3.1.2.1487]

[ 4.601696] ucsi\_ccg 1-0008: FW2 Version: gn v12.05, [Base 3.1.2.1487]

[ 4.602847] ucsi\_ccg 1-0008: fw\_mode: 2

[ 4.602853] ucsi\_ccg 1-0008: fw1\_invalid: 0

[ 4.602893] ucsi\_ccg 1-0008: fw2\_invalid: 0

[ 4.602899] ucsi\_ccg 1-0008: silicon\_id: 0x1f00

[ 4.603169] ucsi\_ccg 1-0008: typec-port0 extcon dev created

[ 4.603335] ucsi\_ccg 1-0008: typec-port1 extcon dev created

[ 4.603467] ucsi\_ccg 1-0008: typec-pd extcon dev created

[ 4.603618] gpio tegra-gpio-aon wake48 for gpio=10(BB:2)

[ 4.605587] ucsi\_ccg 1-0008: [typec-port0] Cable state:1, cable id:2

[ 4.607487] ucsi\_ccg 1-0008: [typec-port1] Cable state:1, cable id:2

[ 4.609591] ucsi\_ccg 1-0008: HPI Command Success.

[ 4.612208] ucsi\_ccg 1-0008: HPI Command Success.

[ 4.612228] ucsi\_ccg 1-0008: ucsi\_ccg\_init: complete

[ 4.613043] mousedev: PS/2 mouse device common for all mice

[ 4.613172] usbcore: registered new interface driver xpad

[ 4.726413] max77686-rtc max77620-rtc: rtc core: registered max77620-rtc as rtc0

[ 4.728178] Wake73 for irq=42

[ 4.729657] rtc rtc1: alarm rtc device

[ 4.729681] tegra\_rtc c2a0000.rtc: rtc core: registered c2a0000.rtc as rtc1

[ 4.729752] tegra\_rtc c2a0000.rtc: Tegra internal Real Time Clock

[ 4.730060] i2c /dev entries driver

[ 4.734792] max77620-power max20024-power: Event recorder REG\_NVERC : 0x0

[ 4.744598] tegra-thermal-throttle bthrot\_cdev: clk:cpu max:2265600000, min:115200000 steps:28

[ 4.799386] tegra-thermal-throttle bthrot\_cdev: clk:gpu max:1377000000, min:114750000 steps:13

[ 4.799427] tegra-thermal-throttle bthrot\_cdev: cdev:skin-balanced clk:0:cpu off:0 slope-adj:200

[ 4.799432] tegra-thermal-throttle bthrot\_cdev: cdev:skin-balanced clk:1:gpu off:0 slope-adj:400

[ 4.799663] tegra-thermal-throttle bthrot\_cdev: cdev:skin-balanced max\_state:56 cutoff:0

[ 4.799791] tegra-thermal-throttle bthrot\_cdev: cdev:gpu-balanced clk:0:cpu off:0 slope-adj:400

[ 4.799797] tegra-thermal-throttle bthrot\_cdev: cdev:gpu-balanced clk:1:gpu off:0 slope-adj:400

[ 4.800136] tegra-thermal-throttle bthrot\_cdev: cdev:gpu-balanced max\_state:52 cutoff:1

[ 4.800269] tegra-thermal-throttle bthrot\_cdev: cdev:cpu-balanced clk:0:cpu off:0 slope-adj:200

[ 4.800287] tegra-thermal-throttle bthrot\_cdev: cdev:cpu-balanced clk:1:gpu off:365500000 slope-adj:300

[ 4.800598] tegra-thermal-throttle bthrot\_cdev: cdev:cpu-balanced max\_state:56 cutoff:0

[ 4.800692] tegra-thermal-throttle bthrot\_cdev: cdev:emergency-balanced clk:0:cpu off:38400000 slope-adj:10

[ 4.800704] tegra-thermal-throttle bthrot\_cdev: cdev:emergency-balanced clk:1:gpu off:25500000 slope-adj:10

[ 4.801098] tegra-thermal-throttle bthrot\_cdev: cdev:emergency-balanced max\_state:2 cutoff:0

[ 4.801184] tegra-thermal-throttle bthrot\_cdev: cdev:aux-balanced clk:0:cpu off:0 slope-adj:400

[ 4.801191] tegra-thermal-throttle bthrot\_cdev: cdev:aux-balanced clk:1:gpu off:0 slope-adj:400

[ 4.801586] tegra-thermal-throttle bthrot\_cdev: cdev:aux-balanced max\_state:52 cutoff:1

[ 4.802422] FAN dev name: pwm-fan

[ 4.802478] FAN:gpio request success.

[ 4.802489] FAN: can't find tach\_gpio

[ 4.802500] pwm\_fan\_driver pwm-fan: Found 2 profiles, default profile is quiet

[ 4.802576] pwm\_fan\_driver pwm-fan: cap state:4, cap pwm:255

[ 4.802896] pwm\_fan\_driver pwm-fan: got pwm for fan. polarity is normal

[ 4.802902] pwm\_fan\_driver pwm-fan: tach period: 1000

[ 4.803320] pwm\_fan\_driver pwm-fan: index 0: pwm=0, rpm=0, rru=40, rrd=40, state:2

[ 4.803327] pwm\_fan\_driver pwm-fan: index 1: pwm=77, rpm=1000, rru=2, rrd=2, state:2

[ 4.803333] pwm\_fan\_driver pwm-fan: index 2: pwm=120, rpm=2000, rru=1, rrd=1, state:2

[ 4.803369] pwm\_fan\_driver pwm-fan: index 3: pwm=160, rpm=3000, rru=1, rrd=1, state:2

[ 4.803389] pwm\_fan\_driver pwm-fan: index 4: pwm=255, rpm=4000, rru=1, rrd=1, state:3

[ 4.803395] pwm\_fan\_driver pwm-fan: index 5: pwm=255, rpm=5000, rru=1, rrd=1, state:3

[ 4.803400] pwm\_fan\_driver pwm-fan: index 6: pwm=255, rpm=6000, rru=1, rrd=1, state:3

[ 4.803405] pwm\_fan\_driver pwm-fan: index 7: pwm=255, rpm=7000, rru=1, rrd=1, state:4

[ 4.803412] pwm\_fan\_driver pwm-fan: index 8: pwm=255, rpm=10000, rru=1, rrd=1, state:4

[ 4.803419] pwm\_fan\_driver pwm-fan: index 9: pwm=255, rpm=11000, rru=1, rrd=1, state:4

[ 4.804774] device-mapper: uevent: version 1.0.3

[ 4.805471] device-mapper: ioctl: 4.35.0-ioctl (2016-06-23) initialised: dm-devel@redhat.com

[ 4.825383] tegra194\_cpufreq\_probe: platform driver Initialization: pass

[ 4.827734] cpuidle: Initializing cpuidle driver

[ 4.838054] sdhci: Secure Digital Host Controller Interface driver

[ 4.838057] sdhci: Copyright(c) Pierre Ossman

[ 4.838058] sdhci-pltfm: SDHCI platform and OF driver helper

[ 4.839458] sdhci-tegra 3460000.sdhci: Client registration for eMC Successful

[ 4.841715] CMDQ: cmdq\_platfm\_init successful

[ 4.842196] sdhci-tegra 3400000.sdhci: Got CD GPIO

[ 4.843705] sdhci-tegra 3400000.sdhci: Client registration for eMC Successful

[ 4.845202] sdhci-tegra 3400000.sdhci: wakeup init done, cdirq 254

[ 4.849219] tegra-se-elp 3ad0000.se\_elp: tegra\_se\_elp\_probe: complete

[ 4.881457] mmc0: SDHCI controller on 3460000.sdhci [3460000.sdhci] using ADMA 64-bit with 64 bit addr

[ 4.889631] gpio tegra-gpio wake8 for gpio=55(G:7)

[ 4.889676] mmc1: SDHCI controller on 3400000.sdhci [3400000.sdhci] using ADMA 64-bit with 64 bit addr

[ 4.963279] mmc0: mmc\_decode\_ext\_csd: CMDQ supported: depth: 31, cmdq\_support: 1

[ 4.975563] mmc0: periodic cache flush enabled

[ 4.975575] mmc0: new HS400 Enhanced strobe MMC card at address 0001

[ 4.976140] mmcblk0: mmc0:0001 HBG4a2 29.1 GiB

[ 4.976349] mmcblk0boot0: mmc0:0001 HBG4a2 partition 1 8.00 MiB

[ 4.976589] mmcblk0boot1: mmc0:0001 HBG4a2 partition 2 8.00 MiB

[ 4.976861] mmcblk0rpmb: mmc0:0001 HBG4a2 partition 3 4.00 MiB

[ 4.979675] mmcblk0: p1 p2 p3 p4 p5 p6 p7 p8 p9 p10 p11 p12 p13 p14 p15 p16 p17 p18 p19 p20 p21 p22 p23 p24 p25 p26 p27 p28 p29 p30 p31 p32 p33 p34 p35 p36 p37

[ 5.454261] Parent Clock set for DC plld3

[ 5.506632] tegradc 15200000.nvdisplay: hdmi: tmds rate:148351K prod-setting:prod\_c\_hdmi\_111m\_223m

[ 5.507863] tegradc 15200000.nvdisplay: hdmi: get RGB quant from REG programmed by BL.

[ 5.508022] tegradc 15200000.nvdisplay: hdmi: BL set VIC 0

[ 5.508125] tegradc 15200000.nvdisplay: hdmi: get YCC quant from REG programmed by BL.

[ 5.533586] extcon-disp-state external-connection:disp-state: cable 48 state 1

[ 5.533737] Extcon AUX2(HDMI) enable

[ 5.534173] tegradc 15210000.nvdisplay: disp1 connected to head1->/host1x/sor

[ 5.534335] tegradc 15210000.nvdisplay: parse\_dp\_settings: No dp-lt-settings node

[ 5.534529] tegradc 15210000.nvdisplay: DT parsed successfully

[ 5.534688] tegradc 15210000.nvdisplay: Display dc.ffffff800d1e0000 registered with id=1

[ 5.535029] tegradc 15210000.nvdisplay: vblank syncpt # 11 for dc 1

[ 5.535140] tegradc 15210000.nvdisplay: vpulse3 syncpt # 12 for dc 1

[ 5.545031] tegradc 15210000.nvdisplay: probed

[ 5.565575] tegradc 15210000.nvdisplay: fb registered

[ 5.568968] hpd: state 7 (Takeover from bootloader), hpd 0, pending\_hpd\_evt 1

[ 5.569133] hpd: switching from state 7 (Takeover from bootloader) to state 0 (Reset)

[ 5.569271] hpd: state 0 (Reset), hpd 0, pending\_hpd\_evt 0

[ 5.569396] tegradc 15210000.nvdisplay: blank - powerdown

[ 5.569851] tegradc 15220000.nvdisplay: disp2 connected to head2->/host1x/sor1

[ 5.569874] tegradc 15220000.nvdisplay: parse\_dp\_settings: No dp-lt-settings node

[ 5.569942] tegradc 15220000.nvdisplay: DT parsed successfully

[ 5.569975] tegradc 15220000.nvdisplay: Display dc.ffffff800d3d0000 registered with id=2

[ 5.570139] tegradc 15220000.nvdisplay: vblank syncpt # 13 for dc 2

[ 5.570143] tegradc 15220000.nvdisplay: vpulse3 syncpt # 14 for dc 2

[ 5.613580] extcon-disp-state external-connection:disp-state: cable 44 state 0 already set.

[ 5.621798] Extcon DP: HPD disabled

[ 5.625733] hpd: hpd\_switch 0

[ 5.628856] hpd: switching from state 0 (Reset) to state 1 (Check Plug)

[ 5.635703] hpd: state 1 (Check Plug), hpd 0, pending\_hpd\_evt 0

[ 5.641675] hpd: switching from state 1 (Check Plug) to state 3 (Disabled)

[ 5.649936] tegradc 15220000.nvdisplay: probed

[ 5.673839] tegradc 15220000.nvdisplay: fb registered

[ 5.677540] hpd: state 7 (Takeover from bootloader), hpd 0, pending\_hpd\_evt 1

[ 5.677697] hpd: switching from state 7 (Takeover from bootloader) to state 0 (Reset)

[ 5.677846] hpd: state 0 (Reset), hpd 0, pending\_hpd\_evt 0

[ 5.678815] tegradc 15220000.nvdisplay: blank - powerdown

[ 5.681266] tegra-se-nvhost 15810000.se: initialized

[ 5.682754] tegra-se-nvhost 15810000.se: tegra\_se\_probe: complete

[ 5.683511] tegra-se-nvhost 15820000.se: initialized

[ 5.684574] tegra-se-nvhost 15820000.se: tegra\_se\_probe: complete

[ 5.686263] tegra-se-nvhost 15830000.se: initialized

[ 5.686891] tegra-se-nvhost 15830000.se: tegra\_se\_probe: complete

[ 5.687660] tegra-se-nvhost 15840000.se: initialized

[ 5.693804] tegra-se-nvhost 15840000.se: tegra\_se\_probe: complete

[ 5.694058] hidraw: raw HID events driver (C) Jiri Kosina

[ 5.695207] usbcore: registered new interface driver usbhid

[ 5.695209] usbhid: USB HID core driver

[ 5.700764] tegra186-cam-rtcpu bc00000.rtcpu: deferring, 14800000.isp is not probed

[ 5.701873] tegra\_aon c1a0000.aon: tegra aon driver probe OK

[ 5.702407] tegra186-aondbg aondbg: aondbg driver probe() OK

[ 5.702938] denver\_knobs\_init:MTS\_VERSION:45309758

[ 5.703118] tegra19x\_actmon d230000.actmon: in actmon\_register()...

[ 5.704050] tegra19x\_actmon d230000.actmon: initialization Completed for the device mc\_all

[ 5.704529] t19x\_cache tegra-cache: probed

[ 5.710625] misc nvmap: cvsram :dma coherent mem declare 0x0000000050000000,4194304

[ 5.710638] misc nvmap: created heap cvsram base 0x0000000050000000 size (4096KiB)

[ 5.732304] nvpmodel: initialized successfully

[ 5.734203] trusty-virtio trusty:virtio: initializing

[ 5.734419] trusty\_ipc virtio0: vring0: va(pa) ffffffc3c9b80000(0) qsz 32 notifyid 1

[ 5.734425] trusty\_ipc virtio0: vring1: va(pa) ffffffc3c9b82000(0) qsz 32 notifyid 2

[ 5.734527] trusty-virtio trusty:virtio: initializing done

[ 5.734733] trusty\_ipc virtio0: is online

[ 5.735205] tegra-hda 3510000.hda: Override SDO lines to 4

[ 5.735514] usbcore: registered new interface driver snd-usb-audio

[ 5.754698] input: tegra-hda-galen-t194 HDMI/DP,pcm=3 as /devices/3510000.hda/sound/card0/input0

[ 5.754856] input: tegra-hda-galen-t194 HDMI/DP,pcm=7 as /devices/3510000.hda/sound/card0/input1

[ 5.754989] input: tegra-hda-galen-t194 HDMI/DP,pcm=8 as /devices/3510000.hda/sound/card0/input2

[ 5.755104] input: tegra-hda-galen-t194 HDMI/DP,pcm=9 as /devices/3510000.hda/sound/card0/input3

[ 5.882718] extcon-disp-state external-connection:disp-state: cable 44 state 0 already set.

[ 5.882722] Extcon DP: HPD disabled

[ 5.882724] hpd: hpd\_switch 0

[ 5.882726] hpd: switching from state 0 (Reset) to state 1 (Check Plug)

[ 5.882739] hpd: state 1 (Check Plug), hpd 0, pending\_hpd\_evt 0

[ 5.882743] hpd: switching from state 1 (Check Plug) to state 3 (Disabled)

[ 5.882771] tegradc 15200000.nvdisplay: blank - powerdown

[ 5.923889] extcon-disp-state external-connection:disp-state: cable 48 state 0

[ 5.923891] Extcon AUX2(HDMI) disable

[ 5.948004] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head1 pd

[ 5.948401] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head0 pd

[ 5.959461] tegradc 15200000.nvdisplay: unblank

[ 5.960117] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head0 pd

[ 5.960223] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head1 pd

[ 5.961921] Parent Clock set for DC plld3

[ 5.965703] tegradc 15200000.nvdisplay: hdmi: tmds rate:148500K prod-setting:prod\_c\_hdmi\_111m\_223m

[ 5.967006] tegradc 15200000.nvdisplay: hdmi: get RGB quant from EDID.

[ 5.967035] tegradc 15200000.nvdisplay: hdmi: get YCC quant from EDID.

[ 6.001763] extcon-disp-state external-connection:disp-state: cable 48 state 1

[ 6.001765] Extcon AUX2(HDMI) enable

[ 7.544121] gpio tegra-gpio wake12 for gpio=149(S:5)

[ 7.640544] OPE platform probe

[ 7.640678] OPE platform probe successful

[ 7.774307] tegra-asoc: sound: ADMAIF1 <-> ADMAIF1 mapping ok

[ 7.774425] tegra-asoc: sound: ADMAIF2 <-> ADMAIF2 mapping ok

[ 7.774517] tegra-asoc: sound: ADMAIF3 <-> ADMAIF3 mapping ok

[ 7.774640] tegra-asoc: sound: ADMAIF4 <-> ADMAIF4 mapping ok

[ 7.774736] tegra-asoc: sound: ADMAIF5 <-> ADMAIF5 mapping ok

[ 7.774831] tegra-asoc: sound: ADMAIF6 <-> ADMAIF6 mapping ok

[ 7.774937] tegra-asoc: sound: ADMAIF7 <-> ADMAIF7 mapping ok

[ 7.775030] tegra-asoc: sound: ADMAIF8 <-> ADMAIF8 mapping ok

[ 7.775135] tegra-asoc: sound: ADMAIF9 <-> ADMAIF9 mapping ok

[ 7.775240] tegra-asoc: sound: ADMAIF10 <-> ADMAIF10 mapping ok

[ 7.775336] tegra-asoc: sound: ADMAIF11 <-> ADMAIF11 mapping ok

[ 7.775445] tegra-asoc: sound: ADMAIF12 <-> ADMAIF12 mapping ok

[ 7.775512] tegra-asoc: sound: ADMAIF13 <-> ADMAIF13 mapping ok

[ 7.775579] tegra-asoc: sound: ADMAIF14 <-> ADMAIF14 mapping ok

[ 7.775645] tegra-asoc: sound: ADMAIF15 <-> ADMAIF15 mapping ok

[ 7.775710] tegra-asoc: sound: ADMAIF16 <-> ADMAIF16 mapping ok

[ 7.775787] tegra-asoc: sound: ADMAIF17 <-> ADMAIF17 mapping ok

[ 7.775882] tegra-asoc: sound: ADMAIF18 <-> ADMAIF18 mapping ok

[ 7.775951] tegra-asoc: sound: ADMAIF19 <-> ADMAIF19 mapping ok

[ 7.776016] tegra-asoc: sound: ADMAIF20 <-> ADMAIF20 mapping ok

[ 7.808944] input: tegra-snd-t19x-mobile-rt565x Headset Jack as /devices/sound/sound/card1/input4

[ 7.810040] u32 classifier

[ 7.810043] Actions configured

[ 7.810102] Initializing XFRM netlink socket

[ 7.810581] NET: Registered protocol family 10

[ 7.811176] NET: Registered protocol family 17

[ 7.811186] NET: Registered protocol family 15

[ 7.811237] bridge: filtering via arp/ip/ip6tables is no longer available by default. Update your scripts to load br\_netfilter if you need this.

[ 7.811316] Bluetooth: RFCOMM socket layer initialized

[ 7.811328] Bluetooth: RFCOMM ver 1.11

[ 7.811332] Bluetooth: HIDP (Human Interface Emulation) ver 1.2

[ 7.811336] Bluetooth: HIDP socket layer initialized

[ 7.811350] 9pnet: Installing 9P2000 support

[ 7.811377] Key type dns\_resolver registered

[ 7.811606] Registered cp15\_barrier emulation handler

[ 7.811621] Registered setend emulation handler

[ 7.812832] registered taskstats version 1

[ 7.813261] pcie-tegra.c:nvidia,max-speed is 4 | NOTE: 1: Gen1, 2: Gen2, 3: Gen3, 4: Gen4

[ 7.813262] tegra-pcie-dw 14180000.pcie: PCIe max-speed check

[ 7.813265] tegra-pcie-dw 14180000.pcie: Setting init speed to max speed

[ 7.814337] OF: PCI: host bridge /pcie@14180000 ranges:

[ 7.814369] OF: PCI: IO 0x38100000..0x381fffff -> 0x38100000

[ 7.814388] OF: PCI: MEM 0x1b40000000..0x1bffffffff -> 0x40000000

[ 7.814420] OF: PCI: MEM 0x1800000000..0x1b3fffffff -> 0x1800000000

[ 8.304378] extcon-disp-state external-connection:disp-state: cable 40 state 1

[ 8.311528] Extcon HDMI: HPD enabled

[ 8.314797] tegradc 15200000.nvdisplay: hdmi: plugged

[ 8.332218] tegra-pcie-dw 14180000.pcie: link is down

[ 8.333579] tegra-pcie-dw 14180000.pcie: PCI host bridge to bus 0000:00

[ 8.334677] pci\_bus 0000:00: root bus resource [bus 00-ff]

[ 8.336933] pci\_bus 0000:00: root bus resource [io 0x0000-0xfffff] (bus address [0x38100000-0x381fffff])

[ 8.346847] pci\_bus 0000:00: root bus resource [mem 0x1b40000000-0x1bffffffff] (bus address [0x40000000-0xffffffff])

[ 8.357573] pci\_bus 0000:00: root bus resource [mem 0x1800000000-0x1b3fffffff pref]

[ 8.365406] pci 0000:00:00.0: [10de:1ad0] type 01 class 0x060400

[ 8.365590] pci 0000:00:00.0: PME# supported from D0 D3hot D3cold

[ 8.365854] iommu: Adding device 0000:00:00.0 to group 61

[ 8.371068] pci 0000:00:00.0: PCI bridge to [bus 01-ff]

[ 8.376081] pci 0000:00:00.0: Max Payload Size set to 256/ 256 (was 256), Max Read Rq 512

[ 8.384597] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt

[ 8.391290] pcie\_pme 0000:00:00.0:pcie001: service driver pcie\_pme loaded

[ 8.391366] aer 0000:00:00.0:pcie002: service driver aer loaded

[ 8.391527] pcie\_pme 0000:00:00.0:pcie001: unloading service driver pcie\_pme

[ 8.391593] aer 0000:00:00.0:pcie002: unloading service driver aer

[ 8.391682] pci\_bus 0000:01: busn\_res: [bus 01-ff] is released

[ 8.391752] iommu: Removing device 0000:00:00.0 from group 61

[ 8.396852] pci\_bus 0000:00: busn\_res: [bus 00-ff] is released

[ 8.398158] tegra-pcie-dw 14180000.pcie: PCIe link is not up...!

[ 8.403489] pcie-tegra.c:nvidia,max-speed is 2 | NOTE: 1: Gen1, 2: Gen2, 3: Gen3, 4: Gen4

[ 8.411107] tegra-pcie-dw 14100000.pcie: PCIe max-speed check

[ 8.416750] tegra-pcie-dw 14100000.pcie: Setting init speed to max speed

[ 8.424511] OF: PCI: host bridge /pcie@14100000 ranges:

[ 8.428685] OF: PCI: IO 0x30100000..0x301fffff -> 0x30100000

[ 8.434527] OF: PCI: MEM 0x1230000000..0x123fffffff -> 0x40000000

[ 8.440728] OF: PCI: MEM 0x1200000000..0x122fffffff -> 0x1200000000

[ 8.557504] tegra-pcie-dw 14100000.pcie: link is up

[ 8.558860] tegra-pcie-dw 14100000.pcie: PCI host bridge to bus 0001:00

[ 8.559996] pci\_bus 0001:00: root bus resource [bus 00-ff]

[ 8.561134] pci\_bus 0001:00: root bus resource [io 0x100000-0x1fffff] (bus address [0x30100000-0x301fffff])

[ 8.562383] pci\_bus 0001:00: root bus resource [mem 0x1230000000-0x123fffffff] (bus address [0x40000000-0x4fffffff])

[ 8.563610] pci\_bus 0001:00: root bus resource [mem 0x1200000000-0x122fffffff pref]

[ 8.564828] pci 0001:00:00.0: [10de:1ad2] type 01 class 0x060400

[ 8.564965] pci 0001:00:00.0: PME# supported from D0 D3hot D3cold

[ 8.565196] iommu: Adding device 0001:00:00.0 to group 61

[ 8.566675] pci 0001:01:00.0: [1b4b:9171] type 00 class 0x010601

[ 8.566782] pci 0001:01:00.0: reg 0x10: [io 0x8000-0x8007]

[ 8.566844] pci 0001:01:00.0: reg 0x14: [io 0x8040-0x8043]

[ 8.566906] pci 0001:01:00.0: reg 0x18: [io 0x8100-0x8107]

[ 8.566967] pci 0001:01:00.0: reg 0x1c: [io 0x8140-0x8143]

[ 8.567030] pci 0001:01:00.0: reg 0x20: [io 0x800000-0x80000f]

[ 8.567093] pci 0001:01:00.0: reg 0x24: [mem 0x00900000-0x009001ff]

[ 8.567157] pci 0001:01:00.0: reg 0x30: [mem 0xd0000000-0xd000ffff pref]

[ 8.567483] pci 0001:01:00.0: PME# supported from D3hot

[ 8.567722] iommu: Adding device 0001:01:00.0 to group 62

[ 8.579280] pci 0001:00:00.0: BAR 14: assigned [mem 0x1230000000-0x12300fffff]

[ 8.580518] pci 0001:00:00.0: BAR 13: assigned [io 0x100000-0x100fff]

[ 8.581774] pci 0001:01:00.0: BAR 6: assigned [mem 0x1230000000-0x123000ffff pref]

[ 8.583001] pci 0001:01:00.0: BAR 5: assigned [mem 0x1230010000-0x12300101ff]

[ 8.584248] pci 0001:01:00.0: BAR 4: assigned [io 0x100000-0x10000f]

[ 8.585526] pci 0001:01:00.0: BAR 0: assigned [io 0x100010-0x100017]

[ 8.586761] pci 0001:01:00.0: BAR 2: assigned [io 0x100018-0x10001f]

[ 8.587990] pci 0001:01:00.0: BAR 1: assigned [io 0x100020-0x100023]

[ 8.589225] pci 0001:01:00.0: BAR 3: assigned [io 0x100024-0x100027]

[ 8.590469] pci 0001:00:00.0: PCI bridge to [bus 01-ff]

[ 8.591682] pci 0001:00:00.0: bridge window [io 0x100000-0x100fff]

[ 8.595979] pci 0001:00:00.0: bridge window [mem 0x1230000000-0x12300fffff]

[ 8.603252] pci 0001:00:00.0: Max Payload Size set to 256/ 256 (was 256), Max Read Rq 512

[ 8.611944] pci 0001:01:00.0: Max Payload Size set to 256/ 512 (was 128), Max Read Rq 512

[ 8.620640] pcieport 0001:00:00.0: Signaling PME through PCIe PME interrupt

[ 8.627397] pci 0001:01:00.0: Signaling PME through PCIe PME interrupt

[ 8.633618] pcie\_pme 0001:00:00.0:pcie001: service driver pcie\_pme loaded

[ 8.633762] aer 0001:00:00.0:pcie002: service driver aer loaded

[ 8.634053] ahci 0001:01:00.0: version 3.0

[ 8.634344] ahci 0001:01:00.0: AHCI 0001.0000 32 slots 1 ports 6 Gbps 0x1 impl SATA mode

[ 8.641943] ahci 0001:01:00.0: flags: 64bit ncq sntf led only pmp fbs pio slum part sxs

[ 8.650482] scsi host1: ahci

[ 8.652591] ata1: SATA max UDMA/133 abar m512@0x1230010000 port 0x1230010100 irq 563

[ 8.660829] pcie-tegra.c:nvidia,max-speed is 4 | NOTE: 1: Gen1, 2: Gen2, 3: Gen3, 4: Gen4

[ 8.668709] tegra-pcie-dw 14140000.pcie: PCIe max-speed check

[ 8.674281] tegra-pcie-dw 14140000.pcie: Setting init speed to max speed

[ 8.681862] OF: PCI: host bridge /pcie@14140000 ranges:

[ 8.686212] OF: PCI: IO 0x34100000..0x341fffff -> 0x34100000

[ 8.692064] OF: PCI: MEM 0x12b0000000..0x12bfffffff -> 0x40000000

[ 8.698262] OF: PCI: MEM 0x1280000000..0x12afffffff -> 0x1280000000

[ 8.976054] ata1: SATA link down (SStatus 0 SControl 300)

[ 9.217182] tegra-pcie-dw 14140000.pcie: link is down

[ 9.218822] tegra-pcie-dw 14140000.pcie: PCI host bridge to bus 0003:00

[ 9.220245] pci\_bus 0003:00: root bus resource [bus 00-ff]

[ 9.221602] pci\_bus 0003:00: root bus resource [io 0x200000-0x2fffff] (bus address [0x34100000-0x341fffff])

[ 9.223032] pci\_bus 0003:00: root bus resource [mem 0x12b0000000-0x12bfffffff] (bus address [0x40000000-0x4fffffff])

[ 9.224454] pci\_bus 0003:00: root bus resource [mem 0x1280000000-0x12afffffff pref]

[ 9.225884] pci 0003:00:00.0: [10de:1ad2] type 01 class 0x060400

[ 9.226036] pci 0003:00:00.0: PME# supported from D0 D3hot D3cold

[ 9.226242] iommu: Adding device 0003:00:00.0 to group 63

[ 9.227837] pci 0003:00:00.0: PCI bridge to [bus 01-ff]

[ 9.229185] pci 0003:00:00.0: Max Payload Size set to 256/ 256 (was 256), Max Read Rq 512

[ 9.230865] pcieport 0003:00:00.0: Signaling PME through PCIe PME interrupt

[ 9.232272] pcie\_pme 0003:00:00.0:pcie001: service driver pcie\_pme loaded

[ 9.232370] aer 0003:00:00.0:pcie002: service driver aer loaded

[ 9.232561] pcie\_pme 0003:00:00.0:pcie001: unloading service driver pcie\_pme

[ 9.232615] aer 0003:00:00.0:pcie002: unloading service driver aer

[ 9.232693] pci\_bus 0003:01: busn\_res: [bus 01-ff] is released

[ 9.232819] iommu: Removing device 0003:00:00.0 from group 63

[ 9.234253] pci\_bus 0003:00: busn\_res: [bus 00-ff] is released

[ 9.235850] tegra-pcie-dw 14140000.pcie: PCIe link is not up...!

[ 9.237954] pcie-tegra.c:nvidia,max-speed is 4 | NOTE: 1: Gen1, 2: Gen2, 3: Gen3, 4: Gen4

[ 9.238134] tegra-pcie-dw 141a0000.pcie: PCIe max-speed check

[ 9.239524] tegra-pcie-dw 141a0000.pcie: Setting init speed to max speed

[ 9.241998] OF: PCI: host bridge /pcie@141a0000 ranges:

[ 9.243436] OF: PCI: IO 0x3a100000..0x3a1fffff -> 0x3a100000

[ 9.244864] OF: PCI: MEM 0x1f40000000..0x1fffffffff -> 0x40000000

[ 9.248309] OF: PCI: MEM 0x1c00000000..0x1f3fffffff -> 0x1c00000000

[ 9.768605] tegra-pcie-dw 141a0000.pcie: link is down in DLL, try again with DLFE disabled

[ 9.877487] tegra-pcie-dw 141a0000.pcie: link is up

[ 9.879186] tegra-pcie-dw 141a0000.pcie: PCI host bridge to bus 0005:00

[ 9.880634] pci\_bus 0005:00: root bus resource [bus 00-ff]

[ 9.882050] pci\_bus 0005:00: root bus resource [io 0x300000-0x3fffff] (bus address [0x3a100000-0x3a1fffff])

[ 9.883533] pci\_bus 0005:00: root bus resource [mem 0x1f40000000-0x1fffffffff] (bus address [0x40000000-0xffffffff])

[ 9.885015] pci\_bus 0005:00: root bus resource [mem 0x1c00000000-0x1f3fffffff pref]

[ 9.886506] pci 0005:00:00.0: [10de:1ad0] type 01 class 0x060400

[ 9.886665] pci 0005:00:00.0: PME# supported from D0 D3hot D3cold

[ 9.886865] iommu: Adding device 0005:00:00.0 to group 63

[ 9.888533] pci 0005:01:00.0: [1172:e003] type 00 class 0xff0000

[ 9.888645] pci 0005:01:00.0: reg 0x10: [mem 0x00000000-0x000001ff 64bit pref]

[ 9.888717] pci 0005:01:00.0: reg 0x18: [mem 0x00000000-0x1fffffff 64bit pref]

[ 9.889528] iommu: Adding device 0005:01:00.0 to group 64

[ 9.902405] pci 0005:00:00.0: BAR 15: assigned [mem 0x1c00000000-0x1c2fffffff 64bit pref]

[ 9.904273] pci 0005:01:00.0: BAR 2: assigned [mem 0x1c00000000-0x1c1fffffff 64bit pref]

[ 9.906370] pci 0005:01:00.0: BAR 0: assigned [mem 0x1c20000000-0x1c200001ff 64bit pref]

[ 9.907790] pci 0005:00:00.0: PCI bridge to [bus 01-ff]

[ 9.909119] pci 0005:00:00.0: bridge window [mem 0x1c00000000-0x1c2fffffff 64bit pref]

[ 9.910515] pci 0005:00:00.0: Max Payload Size set to 256/ 256 (was 256), Max Read Rq 512

[ 9.911969] pci 0005:01:00.0: Max Payload Size set to 256/ 256 (was 128), Max Read Rq 512

[ 9.913622] pcieport 0005:00:00.0: Signaling PME through PCIe PME interrupt

[ 9.914980] pci 0005:01:00.0: Signaling PME through PCIe PME interrupt

[ 9.916323] pcie\_pme 0005:00:00.0:pcie001: service driver pcie\_pme loaded

[ 9.916439] aer 0005:00:00.0:pcie002: service driver aer loaded

[ 9.930092] tegra-cbb 14040000.cv-noc: noc\_secure\_irq = 98, noc\_nonsecure\_irq = 97>

[ 9.936258] tegra194-isp5 14800000.isp: initialized

[ 9.946679] tegra194-vi5 15c10000.vi: initialized

[ 9.954039] tegra194-vi5 15c10000.vi: ep of\_device is not enabled /host1x/vi@15c10000/ports/port@0/endpoint.

[ 9.955511] tegra194-vi5 15c10000.vi: ep of\_device is not enabled /host1x/vi@15c10000/ports/port@1/endpoint.

[ 9.958783] tegra-xusb 3610000.xhci: USB2 port 0 has OTG\_CAP

[ 9.960136] tegra-xusb 3610000.xhci: USB3 port 2 has OTG\_CAP

[ 9.964711] tegra-xusb 3610000.xhci: extcon 0: ffffffc3d9ded000 id

[ 9.967161] tegra-xudc-new 3550000.xudc: PMQOS CPU boost enabled

[ 9.972679] tegra-xudc-new 3550000.xudc: device count: 1

[ 9.978907] tegra-xudc-new 3550000.xudc: vbus state: 0

[ 9.983413] tegra-xusb 3610000.xhci: Firmware timestamp: 2018-03-29 14:24:42 UTC, Version: 60.05 release

[ 9.983448] tegra-xusb 3610000.xhci: xHCI Host Controller

[ 9.983488] tegra-xusb 3610000.xhci: new USB bus registered, assigned bus number 1

[ 9.984731] tegra-xusb 3610000.xhci: hcc params 0x0184ff25 hci version 0x110 quirks 0x00050810

[ 9.984756] tegra-xusb 3610000.xhci: irq 472, io mem 0x03610000

[ 9.984870] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002

[ 9.984873] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1

[ 9.984876] usb usb1: Product: xHCI Host Controller

[ 9.984878] usb usb1: Manufacturer: Linux 4.9.140+ xhci-hcd

[ 9.984880] usb usb1: SerialNumber: 3610000.xhci

[ 9.992984] hub 1-0:1.0: USB hub found

[ 9.993020] hub 1-0:1.0: 4 ports detected

[ 9.993309] tegra-xusb 3610000.xhci: xHCI Host Controller

[ 9.993315] tegra-xusb 3610000.xhci: new USB bus registered, assigned bus number 2

[ 9.993320] tegra-xusb 3610000.xhci: Host supports USB 3.1 Enhanced SuperSpeed

[ 9.993490] usb usb2: New USB device found, idVendor=1d6b, idProduct=0003

[ 9.993493] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1

[ 9.993495] usb usb2: Product: xHCI Host Controller

[ 9.993497] usb usb2: Manufacturer: Linux 4.9.140+ xhci-hcd

[ 9.993499] usb usb2: SerialNumber: 3610000.xhci

[ 9.998473] hub 2-0:1.0: USB hub found

[ 9.998508] hub 2-0:1.0: 4 ports detected

[ 10.115044] tegra-xudc-new 3550000.xudc: Initialize boost\_cpufreq work

[ 10.122358] tegra186-cam-rtcpu bc00000.rtcpu: Trace buffer configured at IOVA=0xbff00000

[ 10.130057] tegra-xudc-new 3550000.xudc: entering ELPG

[ 10.135338] tegra-xudc-new 3550000.xudc: entering ELPG done

[ 10.213419] tegra-ivc ivc-bc00000.rtcpu: region 0: iova=0xbfee0000-0xbfefffff size=131072

[ 10.215148] tegra-ivc ivc-bc00000.rtcpu:echo@0: echo: ver=0 grp=1 RX[16x64]=0x1000-0x1480 TX[16x64]=0x1480-0x1900

[ 10.216763] tegra-ivc ivc-bc00000.rtcpu:dbg@1: dbg: ver=0 grp=1 RX[1x384]=0x1900-0x1b00 TX[1x384]=0x1b00-0x1d00

[ 10.218333] tegra-ivc ivc-bc00000.rtcpu:dbg@2: dbg: ver=0 grp=1 RX[1x8192]=0x1d00-0x3d80 TX[1x8192]=0x3d80-0x5e00

[ 10.220059] tegra-ivc ivc-bc00000.rtcpu:ivccontrol@3: ivccontrol: ver=0 grp=1 RX[64x320]=0x5e00-0xae80 TX[64x320]=0xae80-0xff00

[ 10.221577] tegra-ivc ivc-bc00000.rtcpu:ivccapture@4: ivccapture: ver=0 grp=1 RX[512x64]=0xff00-0x17f80 TX[512x64]=0x17f80-0x20000

[ 10.223190] tegra186-cam-rtcpu bc00000.rtcpu: using cam RTCPU IRQ (69)

[ 10.224479] tegra186-cam-rtcpu bc00000.rtcpu: tegra\_camrtc\_mon\_create is successful

[ 10.226631] tegra186-cam-rtcpu bc00000.rtcpu: firmware version cpu=rce cmd=5 sha1=cf2bef3ad10e437272857b76308abef8ffb80bda

[ 10.228387] gpio tegra-gpio wake67 for gpio=48(G:0)

[ 10.232842] gpio tegra-gpio-aon wake29 for gpio=36(EE:4)

[ 10.238079] input: gpio-keys as /devices/gpio-keys/input/input5

[ 10.274967] tegra\_rtc c2a0000.rtc: setting system clock to 2019-08-14 17:39:57 UTC (1565804397)

[ 10.276847] mmcblk mmc0:0001: Card claimed for testing.

[ 10.320894] bpmp: mounted debugfs mirror

[ 10.328435] vdd-1v8-cvb: disabling

[ 10.329803] vdd-1v8-sd: disabling

[ 10.331093] vdd-epb-1v0: disabling

[ 10.332335] avdd-cam-2v8: disabling

[ 10.333575] vdd-sata-1v5: disabling

[ 10.334842] vdd-3v3-slt: disabling

[ 10.336059] vdd-fan: disabling

[ 10.337263] vdd\_sys\_en: disabling

[ 10.338484] ALSA device list:

[ 10.340545] #0: tegra-hda-galen-t194 at 0x3518000 irq 68

[ 10.342101] #1: tegra-snd-t19x-mobile-rt565x

[ 10.344880] Freeing unused kernel memory: 8576K

[ 10.357493] usb 1-2: new low-speed USB device number 2 using tegra-xusb

[ 10.373460] L4T-INITRD Build DATE: Wed Aug 14 17:39:57 UTC 2019

[ 10.380548] Root device found: mmcblk0p1

[ 10.382251] usb 1-2: New USB device found, idVendor=04f2, idProduct=0939

[ 10.383284] Found dev node: /dev/mmcblk0p1

[ 10.384853] usb 1-2: New USB device strings: Mfr=1, Product=2, SerialNumber=0

[ 10.386176] usb 1-2: Product: USB Optical Mouse

[ 10.387454] usb 1-2: Manufacturer: PixArt

[ 10.392151] input: PixArt USB Optical Mouse as /devices/3610000.xhci/usb1/1-2/1-2:1.0/0003:04F2:0939.0001/input/input6

[ 10.393901] hid-generic 0003:04F2:0939.0001: input,hidraw0: USB HID v1.11 Mouse [PixArt USB Optical Mouse] on usb-3610000.xhci-2/input0

[ 10.418498] EXT4-fs (mmcblk0p1): mounted filesystem with ordered data mode. Opts: (null)

[ 10.420974] Rootfs mounted over mmcblk0p1

[ 10.442465] Switching from initrd to actual rootfs

[ 10.566025] ip\_tables: (C) 2000-2006 Netfilter Core Team

[ 10.570584] cgroup: cgroup2: unknown option "nsdelegate"

[ 10.582595] systemd[1]: systemd 237 running in system mode. (+PAM +AUDIT +SELINUX +IMA +APPARMOR +SMACK +SYSVINIT +UTMP +LIBCRYPTSETUP +GCRYPT +GNUTLS +ACL +XZ +LZ4 +SECCOMP +BLKID +ELFUTILS +KMOD -IDN2 +IDN -PCRE2 default-hierarchy=hybrid)

[ 10.586489] systemd[1]: Detected architecture arm64.

[ 10.599554] systemd[1]: Set hostname to <ebots-rp>.

[ 10.670888] systemd[1]: File /lib/systemd/system/systemd-journald.service:36 configures an IP firewall (IPAddressDeny=any), but the local system does not support BPF/cgroup based firewalling.

[ 10.672672] systemd[1]: Proceeding WITHOUT firewalling in effect! (This warning is only shown for the first loaded unit using IP firewalling.)

[ 10.808582] random: systemd: uninitialized urandom read (16 bytes read)

[ 10.813173] systemd[1]: Created slice User and Session Slice.

[ 10.816812] random: systemd: uninitialized urandom read (16 bytes read)

[ 10.818662] systemd[1]: Started Forward Password Requests to Wall Directory Watch.

[ 10.822167] random: systemd: uninitialized urandom read (16 bytes read)

[ 10.823864] systemd[1]: Reached target Swap.

[ 10.828725] systemd[1]: Created slice System Slice.

[ 10.832679] systemd[1]: Listening on Journal Socket.

[ 10.855678] gpio tegra-gpio wake44 for gpio=192(Y:0)

[ 10.909512] EXT4-fs (mmcblk0p1): re-mounted. Opts: (null)

[ 11.243888] systemd-journald[2488]: Received request to flush runtime journal from PID 1

[ 11.264060] nvgpu: 17000000.gv11b nvgpu\_nvhost\_syncpt\_init:291 [INFO] syncpt\_unit\_base 60000000 syncpt\_unit\_size 400000 size 1000

[ 11.851986] using random self ethernet address

[ 11.854069] using random host ethernet address

[ 11.874522] Mass Storage Function, version: 2009/09/11

[ 11.874532] LUN: removable file: (no medium)

[ 11.880586] using random self ethernet address

[ 11.882720] using random host ethernet address

[ 11.917382] rndis0: HOST MAC 02:3a:04:ea:a1:40

[ 11.917737] rndis0: MAC 02:3a:04:ea:a1:41

[ 11.918775] usb0: HOST MAC 02:3a:04:ea:a1:42

[ 11.918807] usb0: MAC 02:3a:04:ea:a1:43

[ 11.918824] tegra-xudc-new 3550000.xudc: exiting ELPG

[ 11.919369] tegra-xudc-new 3550000.xudc: exiting ELPG done

[ 11.919389] tegra-xudc-new 3550000.xudc: ep 0 (type: 0, dir: out) enabled

[ 11.919427] tegra-xudc-new 3550000.xudc: entering ELPG

[ 11.919638] tegra-xudc-new 3550000.xudc: entering ELPG done

[ 11.919658] tegra-xudc-new 3550000.xudc: exiting ELPG

[ 11.921298] tegra-xudc-new 3550000.xudc: exiting ELPG done

[ 11.921319] tegra-xudc-new 3550000.xudc: entering ELPG

[ 11.921511] tegra-xudc-new 3550000.xudc: entering ELPG done

[ 11.925252] l4tbr0: port 1(rndis0) entered blocking state

[ 11.925260] l4tbr0: port 1(rndis0) entered disabled state

[ 11.925394] device rndis0 entered promiscuous mode

[ 11.931679] IPv6: ADDRCONF(NETDEV\_UP): rndis0: link is not ready

[ 11.936530] l4tbr0: port 2(usb0) entered blocking state

[ 11.936533] l4tbr0: port 2(usb0) entered disabled state

[ 11.936675] device usb0 entered promiscuous mode

[ 11.943199] IPv6: ADDRCONF(NETDEV\_UP): usb0: link is not ready

[ 12.148316] random: crng init done

[ 12.150148] random: 7 urandom warning(s) missed due to ratelimiting

[ 14.166020] Wake76 for irq=199

[ 14.166024] Wake77 for irq=199

[ 14.166026] Wake78 for irq=199

[ 14.166027] Wake79 for irq=199

[ 14.166028] Wake80 for irq=199

[ 14.166030] Wake81 for irq=199

[ 14.166031] Wake82 for irq=199

[ 14.166059] tegra-xusb 3610000.xhci: Upgrade port 0 to USB3.0

[ 14.166063] tegra-xusb 3610000.xhci: Upgrade port 1 to USB3.0

[ 14.433481] usb 1-1: new low-speed USB device number 3 using tegra-xusb

[ 14.463894] usb 1-1: New USB device found, idVendor=04f2, idProduct=0833

[ 14.463898] usb 1-1: New USB device strings: Mfr=1, Product=2, SerialNumber=0

[ 14.463901] usb 1-1: Product: USB Keyboard

[ 14.463903] usb 1-1: Manufacturer: CHICONY

[ 14.469555] input: CHICONY USB Keyboard as /devices/3610000.xhci/usb1/1-1/1-1:1.0/0003:04F2:0833.0002/input/input7

[ 14.530013] hid-generic 0003:04F2:0833.0002: input,hidraw1: USB HID v1.11 Keyboard [CHICONY USB Keyboard] on usb-3610000.xhci-1/input0

[ 14.541400] input: CHICONY USB Keyboard as /devices/3610000.xhci/usb1/1-1/1-1:1.1/0003:04F2:0833.0003/input/input8

[ 14.574581] usb 2-4: new SuperSpeed USB device number 2 using tegra-xusb

[ 14.598768] usb 2-4: New USB device found, idVendor=090c, idProduct=1000

[ 14.598776] usb 2-4: New USB device strings: Mfr=1, Product=2, SerialNumber=0

[ 14.598779] usb 2-4: Product: USB DISK

[ 14.598782] usb 2-4: Manufacturer: SMI Corporation

[ 14.601865] hid-generic 0003:04F2:0833.0003: input,hidraw2: USB HID v1.11 Device [CHICONY USB Keyboard] on usb-3610000.xhci-1/input1

[ 14.604922] usb-storage 2-4:1.0: USB Mass Storage device detected

[ 14.605155] scsi host2: usb-storage 2-4:1.0

[ 15.829072] scsi 2:0:0:0: Direct-Access SMI USB DISK 1100 PQ: 0 ANSI: 6

[ 15.830720] sd 2:0:0:0: [sda] 61440000 512-byte logical blocks: (31.5 GB/29.3 GiB)

[ 15.831484] sd 2:0:0:0: [sda] Write Protect is off

[ 15.831490] sd 2:0:0:0: [sda] Mode Sense: 43 00 00 00

[ 15.832225] sd 2:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA

[ 15.846807] sda: sda1

[ 15.849813] sd 2:0:0:0: [sda] Attached SCSI removable disk

[ 16.946794] zram: Added device: zram0

[ 16.950143] zram: Added device: zram1

[ 16.950569] zram: Added device: zram2

[ 16.952393] zram: Added device: zram3

[ 16.952854] zram: Added device: zram4

[ 16.954368] zram: Added device: zram5

[ 16.955108] zram: Added device: zram6

[ 16.955790] zram: Added device: zram7

[ 16.962067] ras\_fhi\_disable: FHI 481 disabled

[ 16.964169] CPU4: shutdown

[ 16.965694] psci: CPU4 killed.

[ 17.022197] ras\_fhi\_disable: FHI 482 disabled

[ 17.022899] CPU5: shutdown

[ 17.024154] psci: CPU5 killed.

[ 17.066012] IPv6: ADDRCONF(NETDEV\_UP): eth0: link is not ready

[ 17.098084] ras\_fhi\_disable: FHI 483 disabled

[ 17.099930] CPU6: shutdown

[ 17.101347] psci: CPU6 killed.

[ 17.103119] zram0: detected capacity change from 0 to 1028284416

[ 17.119875] Adding 1004180k swap on /dev/zram0. Priority:5 extents:1 across:1004180k SS

[ 17.142508] gpio tegra-gpio wake20 for gpio=52(G:4)

[ 17.150850] IPv6: ADDRCONF(NETDEV\_UP): eth0: link is not ready

[ 17.198114] ras\_fhi\_disable: FHI 484 disabled

[ 17.198612] CPU7: shutdown

[ 17.199719] psci: CPU7 killed.

[ 17.203758] nvgpu: 17000000.gv11b tpc\_pg\_mask\_store:832 [INFO] no value change, same mask already set

[ 17.203880] zram1: detected capacity change from 0 to 1028284416

[ 17.225732] Adding 1004180k swap on /dev/zram1. Priority:5 extents:1 across:1004180k SS

[ 17.232412] zram2: detected capacity change from 0 to 1028284416

[ 17.243753] Adding 1004180k swap on /dev/zram2. Priority:5 extents:1 across:1004180k SS

[ 17.247737] zram3: detected capacity change from 0 to 1028284416

[ 17.258508] Adding 1004180k swap on /dev/zram3. Priority:5 extents:1 across:1004180k SS

[ 17.263733] zram4: detected capacity change from 0 to 1028284416

[ 17.273925] Adding 1004180k swap on /dev/zram4. Priority:5 extents:1 across:1004180k SS

[ 17.279136] zram5: detected capacity change from 0 to 1028284416

[ 17.294098] Adding 1004180k swap on /dev/zram5. Priority:5 extents:1 across:1004180k SS

[ 17.303007] zram6: detected capacity change from 0 to 1028284416

[ 17.321955] Adding 1004180k swap on /dev/zram6. Priority:5 extents:1 across:1004180k SS

[ 17.332831] zram7: detected capacity change from 0 to 1028284416

[ 17.344350] Adding 1004180k swap on /dev/zram7. Priority:5 extents:1 across:1004180k SS

[ 18.767820] tegradc 15200000.nvdisplay: blank - powerdown

[ 18.836614] extcon-disp-state external-connection:disp-state: cable 48 state 0

[ 18.836620] Extcon AUX2(HDMI) disable

[ 18.837905] eqos 2490000.ether\_qos eth0: Link is Up - 100Mbps/Full - flow control rx/tx

[ 18.838598] IPv6: ADDRCONF(NETDEV\_CHANGE): eth0: link becomes ready

[ 18.857738] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head1 pd

[ 18.858397] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head0 pd

[ 18.858601] tegradc 15200000.nvdisplay: unblank

[ 18.859416] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head0 pd

[ 18.859540] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head1 pd

[ 18.862086] Parent Clock set for DC plld3

[ 18.867110] tegradc 15200000.nvdisplay: hdmi: tmds rate:148500K prod-setting:prod\_c\_hdmi\_111m\_223m

[ 18.868538] tegradc 15200000.nvdisplay: hdmi: get RGB quant from EDID.

[ 18.868549] tegradc 15200000.nvdisplay: hdmi: get YCC quant from EDID.

[ 18.903622] extcon-disp-state external-connection:disp-state: cable 48 state 1

[ 18.903626] Extcon AUX2(HDMI) enable

[ 18.903717] tegradc 15200000.nvdisplay: unblank

[ 18.903731] tegradc 15210000.nvdisplay: blank - powerdown

[ 18.903740] tegradc 15220000.nvdisplay: blank - powerdown

[ 36.738303] tegradc 15200000.nvdisplay: blank - powerdown

[ 36.802196] extcon-disp-state external-connection:disp-state: cable 48 state 0

[ 36.802201] Extcon AUX2(HDMI) disable

[ 36.824769] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head1 pd

[ 36.825352] tegra\_nvdisp\_handle\_pd\_disable: Powergated Head0 pd

[ 36.825714] tegradc 15210000.nvdisplay: blank - powerdown

[ 36.825727] tegradc 15220000.nvdisplay: blank - powerdown

[ 37.025849] tegradc 15200000.nvdisplay: blank - powerdown

[ 37.025881] tegradc 15200000.nvdisplay: unblank

[ 37.026792] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head0 pd

[ 37.027060] tegra\_nvdisp\_handle\_pd\_enable: Unpowergated Head1 pd

[ 37.029213] Parent Clock set for DC plld3

[ 37.034353] tegradc 15200000.nvdisplay: hdmi: tmds rate:148500K prod-setting:prod\_c\_hdmi\_111m\_223m

[ 37.035765] tegradc 15200000.nvdisplay: hdmi: get RGB quant from EDID.

[ 37.035779] tegradc 15200000.nvdisplay: hdmi: get YCC quant from EDID.

[ 37.070828] extcon-disp-state external-connection:disp-state: cable 48 state 1

[ 37.070832] Extcon AUX2(HDMI) enable

[ 37.070918] tegradc 15200000.nvdisplay: unblank

[ 37.070933] tegradc 15210000.nvdisplay: blank - powerdown

[ 37.070945] tegradc 15220000.nvdisplay: blank - powerdown

[ 41.142896] Bluetooth: BNEP (Ethernet Emulation) ver 1.3

[ 41.142916] Bluetooth: BNEP socket layer initialized

[ 41.543238] fuse init (API version 7.26)

[ 41.796754] tegradc 15200000.nvdisplay: unblank

[ 41.796772] tegradc 15210000.nvdisplay: blank - powerdown

[ 41.796783] tegradc 15220000.nvdisplay: blank - powerdown

[ 46.142272] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.

root@ebots-rp:~# lspci -vvvv

0001:00:00.0 PCI bridge: NVIDIA Corporation Device 1ad2 (rev a1) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 34

Bus: primary=00, secondary=01, subordinate=ff, sec-latency=0

I/O behind bridge: 00000000-00000fff

Memory behind bridge: 40000000-400fffff

Prefetchable memory behind bridge: 00000000fff00000-00000000000fffff

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR- NoISA- VGA- MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)

Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable- Count=1/1 Maskable- 64bit+

Address: 0000000000000000 Data: 0000

Capabilities: [70] Express (v2) Root Port (Slot-), MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0

ExtTag- RBE+

DevCtl: Report errors: Correctable+ Non-Fatal+ Fatal+ Unsupported+

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr+ TransPend-

LnkCap: Port #0, Speed 5GT/s, Width x1, ASPM L0s L1, Exit Latency L0s <1us, L1 <64us

ClockPM- Surprise+ LLActRep+ BwNot+ ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt+ AutBWInt-

LnkSta: Speed 5GT/s, Width x1, TrErr- Train- SlotClk+ DLActive+ BWMgmt+ ABWMgmt+

RootCtl: ErrCorrectable- ErrNon-Fatal- ErrFatal- PMEIntEna+ CRSVisible+

RootCap: CRSVisible+

RootSta: PME ReqID 0000, PMEStatus- PMEPending-

DevCap2: Completion Timeout: Range ABCD, TimeoutDis+, LTR+, OBFF Not Supported ARIFwd-

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR+, OBFF Disabled ARIFwd-

LnkCtl2: Target Link Speed: 5GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete-, EqualizationPhase1-

EqualizationPhase2-, EqualizationPhase3-, LinkEqualizationRequest-

Capabilities: [b0] MSI-X: Enable- Count=1 Masked-

Vector table: BAR=0 offset=00000000

PBA: BAR=0 offset=00000000

Capabilities: [100 v2] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap+ CGenEn- ChkCap+ ChkEn-

Capabilities: [148 v1] #19

Capabilities: [158 v1] #26

Capabilities: [17c v1] #27

Capabilities: [190 v1] L1 PM Substates

L1SubCap: PCI-PM\_L1.2+ PCI-PM\_L1.1+ ASPM\_L1.2- ASPM\_L1.1- L1\_PM\_Substates+

PortCommonModeRestoreTime=60us PortTPowerOnTime=40us

L1SubCtl1: PCI-PM\_L1.2- PCI-PM\_L1.1- ASPM\_L1.2- ASPM\_L1.1-

T\_CommonMode=60us

L1SubCtl2: T\_PwrOn=40us

Capabilities: [1a0 v1] Vendor Specific Information: ID=0002 Rev=4 Len=100 <?>

Capabilities: [2a0 v1] Vendor Specific Information: ID=0001 Rev=1 Len=038 <?>

Capabilities: [2d8 v1] #25

Capabilities: [2e4 v1] Precision Time Measurement

PTMCap: Requester:- Responder:+ Root:+

PTMClockGranularity: 16ns

PTMControl: Enabled:- RootSelected:-

PTMEffectiveGranularity: Unknown

Capabilities: [2f0 v1] Vendor Specific Information: ID=0004 Rev=1 Len=054 <?>

Kernel driver in use: pcieport

0001:01:00.0 SATA controller: Marvell Technology Group Ltd. Device 9171 (rev 13) (prog-if 01 [AHCI 1.0])

Subsystem: Marvell Technology Group Ltd. Device 9171

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 563

Region 0: I/O ports at 100010 [size=8]

Region 1: I/O ports at 100020 [size=4]

Region 2: I/O ports at 100018 [size=8]

Region 3: I/O ports at 100024 [size=4]

Region 4: I/O ports at 100000 [size=16]

Region 5: Memory at 1230010000 (32-bit, non-prefetchable) [size=512]

Expansion ROM at 1230000000 [disabled] [size=64K]

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot+,D3cold-)

Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable+ Count=1/1 Maskable- 64bit-

Address: fffff000 Data: 0000

Capabilities: [70] Express (v2) Legacy Endpoint, MSI 00

DevCap: MaxPayload 512 bytes, PhantFunc 0, Latency L0s <1us, L1 <64us

ExtTag- AttnBtn- AttnInd- PwrInd- RBE+ FLReset-

DevCtl: Report errors: Correctable- Non-Fatal- Fatal- Unsupported-

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop-

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr- TransPend-

LnkCap: Port #0, Speed 5GT/s, Width x1, ASPM L0s L1, Exit Latency L0s <512ns, L1 <64us

ClockPM- Surprise- LLActRep- BwNot- ASPMOptComp-

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-

LnkSta: Speed 5GT/s, Width x1, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-

DevCap2: Completion Timeout: Not Supported, TimeoutDis+, LTR-, OBFF Not Supported

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR-, OBFF Disabled

LnkCtl2: Target Link Speed: 5GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete-, EqualizationPhase1-

EqualizationPhase2-, EqualizationPhase3-, LinkEqualizationRequest-

Capabilities: [100 v1] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-

Kernel driver in use: ahci

0005:00:00.0 PCI bridge: NVIDIA Corporation Device 1ad0 (rev a1) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 38

Bus: primary=00, secondary=01, subordinate=ff, sec-latency=0

I/O behind bridge: 0000f000-00000fff

Memory behind bridge: fff00000-000fffff

Prefetchable memory behind bridge: 0000001c00000000-0000001c2fffffff

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR- NoISA- VGA- MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)

Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable- Count=1/1 Maskable+ 64bit+

Address: 0000000000000000 Data: 0000

Masking: 00000000 Pending: 00000000

Capabilities: [70] Express (v2) Root Port (Slot-), MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0

ExtTag- RBE+

DevCtl: Report errors: Correctable+ Non-Fatal+ Fatal+ Unsupported+

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr+ TransPend-

LnkCap: Port #0, Speed 16GT/s, Width x8, ASPM not supported, Exit Latency L0s <1us, L1 <64us

ClockPM- Surprise+ LLActRep+ BwNot+ ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt+ AutBWInt-

LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive+ BWMgmt+ ABWMgmt+

RootCtl: ErrCorrectable- ErrNon-Fatal- ErrFatal- PMEIntEna+ CRSVisible+

RootCap: CRSVisible+

RootSta: PME ReqID 0000, PMEStatus- PMEPending-

DevCap2: Completion Timeout: Range ABCD, TimeoutDis+, LTR+, OBFF Not Supported ARIFwd-

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR+, OBFF Disabled ARIFwd-

LnkCtl2: Target Link Speed: 16GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+

EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest-

Capabilities: [b0] MSI-X: Enable- Count=8 Masked-

Vector table: BAR=2 offset=00000000

PBA: BAR=2 offset=00010000

Capabilities: [100 v2] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap+ CGenEn- ChkCap+ ChkEn-

Capabilities: [148 v1] #19

Capabilities: [168 v1] #26

Capabilities: [190 v1] #27

Capabilities: [1c0 v1] L1 PM Substates

L1SubCap: PCI-PM\_L1.2+ PCI-PM\_L1.1+ ASPM\_L1.2- ASPM\_L1.1- L1\_PM\_Substates+

PortCommonModeRestoreTime=60us PortTPowerOnTime=40us

L1SubCtl1: PCI-PM\_L1.2- PCI-PM\_L1.1- ASPM\_L1.2- ASPM\_L1.1-

T\_CommonMode=60us

L1SubCtl2: T\_PwrOn=40us

Capabilities: [1d0 v1] Vendor Specific Information: ID=0002 Rev=4 Len=100 <?>

Capabilities: [2d0 v1] Vendor Specific Information: ID=0001 Rev=1 Len=038 <?>

Capabilities: [308 v1] #25

Capabilities: [314 v1] Precision Time Measurement

PTMCap: Requester:+ Responder:+ Root:+

PTMClockGranularity: 16ns

PTMControl: Enabled:- RootSelected:-

PTMEffectiveGranularity: Unknown

Capabilities: [320 v1] Vendor Specific Information: ID=0004 Rev=1 Len=054 <?>

Kernel driver in use: pcieport

0005:01:00.0 Unassigned class [ff00]: Altera Corporation Device e003 (rev 01)

Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Interrupt: pin A routed to IRQ 0

Region 0: Memory at 1c20000000 (64-bit, prefetchable) [disabled] [size=512]

Region 2: Memory at 1c00000000 (64-bit, prefetchable) [disabled] [size=512M]

Capabilities: [50] MSI: Enable- Count=1/4 Maskable- 64bit+

Address: 0000000000000000 Data: 0000

Capabilities: [78] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot-,D3cold-)

Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [80] Express (v2) Endpoint, MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0, Latency L0s <64ns, L1 <1us

ExtTag- AttnBtn- AttnInd- PwrInd- RBE+ FLReset- SlotPowerLimit 0.000W

DevCtl: Report errors: Correctable- Non-Fatal- Fatal- Unsupported-

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr- TransPend-

LnkCap: Port #1, Speed 8GT/s, Width x8, ASPM not supported, Exit Latency L0s <4us, L1 <1us

ClockPM- Surprise- LLActRep- BwNot- ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-

LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-

DevCap2: Completion Timeout: Not Supported, TimeoutDis+, LTR-, OBFF Not Supported

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR-, OBFF Disabled

LnkCtl2: Target Link Speed: 8GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+

EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest-

Capabilities: [100 v1] Virtual Channel

Caps: LPEVC=0 RefClk=100ns PATEntryBits=1

Arb: Fixed- WRR32- WRR64- WRR128-

Ctrl: ArbSelect=Fixed

Status: InProgress-

VC0: Caps: PATOffset=00 MaxTimeSlots=1 RejSnoopTrans-

Arb: Fixed- WRR32- WRR64- WRR128- TWRR128- WRR256-

Ctrl: Enable+ ID=0 ArbSelect=Fixed TC/VC=ff

Status: NegoPending- InProgress-

Capabilities: [200 v1] Vendor Specific Information: ID=1172 Rev=0 Len=044 <?>

Capabilities: [300 v1] #19

Capabilities: [800 v1] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-

root@ebots-rp:~# lspci -vvvv

0001:00:00.0 PCI bridge: NVIDIA Corporation Device 1ad2 (rev a1) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 34

Bus: primary=00, secondary=01, subordinate=ff, sec-latency=0

I/O behind bridge: 00000000-00000fff

Memory behind bridge: 40000000-400fffff

Prefetchable memory behind bridge: 00000000fff00000-00000000000fffff

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR- NoISA- VGA- MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)

Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable- Count=1/1 Maskable- 64bit+

Address: 0000000000000000 Data: 0000

Capabilities: [70] Express (v2) Root Port (Slot-), MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0

ExtTag- RBE+

DevCtl: Report errors: Correctable+ Non-Fatal+ Fatal+ Unsupported+

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr+ TransPend-

LnkCap: Port #0, Speed 5GT/s, Width x1, ASPM L0s L1, Exit Latency L0s <1us, L1 <64us

ClockPM- Surprise+ LLActRep+ BwNot+ ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt+ AutBWInt-

LnkSta: Speed 5GT/s, Width x1, TrErr- Train- SlotClk+ DLActive+ BWMgmt+ ABWMgmt+

RootCtl: ErrCorrectable- ErrNon-Fatal- ErrFatal- PMEIntEna+ CRSVisible+

RootCap: CRSVisible+

RootSta: PME ReqID 0000, PMEStatus- PMEPending-

DevCap2: Completion Timeout: Range ABCD, TimeoutDis+, LTR+, OBFF Not Supported ARIFwd-

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR+, OBFF Disabled ARIFwd-

LnkCtl2: Target Link Speed: 5GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete-, EqualizationPhase1-

EqualizationPhase2-, EqualizationPhase3-, LinkEqualizationRequest-

Capabilities: [b0] MSI-X: Enable- Count=1 Masked-

Vector table: BAR=0 offset=00000000

PBA: BAR=0 offset=00000000

Capabilities: [100 v2] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap+ CGenEn- ChkCap+ ChkEn-

Capabilities: [148 v1] #19

Capabilities: [158 v1] #26

Capabilities: [17c v1] #27

Capabilities: [190 v1] L1 PM Substates

L1SubCap: PCI-PM\_L1.2+ PCI-PM\_L1.1+ ASPM\_L1.2- ASPM\_L1.1- L1\_PM\_Substates+

PortCommonModeRestoreTime=60us PortTPowerOnTime=40us

L1SubCtl1: PCI-PM\_L1.2- PCI-PM\_L1.1- ASPM\_L1.2- ASPM\_L1.1-

T\_CommonMode=60us

L1SubCtl2: T\_PwrOn=40us

Capabilities: [1a0 v1] Vendor Specific Information: ID=0002 Rev=4 Len=100 <?>

Capabilities: [2a0 v1] Vendor Specific Information: ID=0001 Rev=1 Len=038 <?>

Capabilities: [2d8 v1] #25

Capabilities: [2e4 v1] Precision Time Measurement

PTMCap: Requester:- Responder:+ Root:+

PTMClockGranularity: 16ns

PTMControl: Enabled:- RootSelected:-

PTMEffectiveGranularity: Unknown

Capabilities: [2f0 v1] Vendor Specific Information: ID=0004 Rev=1 Len=054 <?>

Kernel driver in use: pcieport

0001:01:00.0 SATA controller: Marvell Technology Group Ltd. Device 9171 (rev 13) (prog-if 01 [AHCI 1.0])

Subsystem: Marvell Technology Group Ltd. Device 9171

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 563

Region 0: I/O ports at 100010 [size=8]

Region 1: I/O ports at 100020 [size=4]

Region 2: I/O ports at 100018 [size=8]

Region 3: I/O ports at 100024 [size=4]

Region 4: I/O ports at 100000 [size=16]

Region 5: Memory at 1230010000 (32-bit, non-prefetchable) [size=512]

Expansion ROM at 1230000000 [disabled] [size=64K]

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot+,D3cold-)

Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable+ Count=1/1 Maskable- 64bit-

Address: fffff000 Data: 0000

Capabilities: [70] Express (v2) Legacy Endpoint, MSI 00

DevCap: MaxPayload 512 bytes, PhantFunc 0, Latency L0s <1us, L1 <64us

ExtTag- AttnBtn- AttnInd- PwrInd- RBE+ FLReset-

DevCtl: Report errors: Correctable- Non-Fatal- Fatal- Unsupported-

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop-

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr- TransPend-

LnkCap: Port #0, Speed 5GT/s, Width x1, ASPM L0s L1, Exit Latency L0s <512ns, L1 <64us

ClockPM- Surprise- LLActRep- BwNot- ASPMOptComp-

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-

LnkSta: Speed 5GT/s, Width x1, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-

DevCap2: Completion Timeout: Not Supported, TimeoutDis+, LTR-, OBFF Not Supported

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR-, OBFF Disabled

LnkCtl2: Target Link Speed: 5GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete-, EqualizationPhase1-

EqualizationPhase2-, EqualizationPhase3-, LinkEqualizationRequest-

Capabilities: [100 v1] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-

Kernel driver in use: ahci

0005:00:00.0 PCI bridge: NVIDIA Corporation Device 1ad0 (rev a1) (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR+ FastB2B- DisINTx-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 38

Bus: primary=00, secondary=01, subordinate=ff, sec-latency=0

I/O behind bridge: 0000f000-00000fff

Memory behind bridge: fff00000-000fffff

Prefetchable memory behind bridge: 0000001c00000000-0000001c2fffffff

Secondary status: 66MHz- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- <SERR- <PERR-

BridgeCtl: Parity- SERR- NoISA- VGA- MAbort- >Reset- FastB2B-

PriDiscTmr- SecDiscTmr- DiscTmrStat- DiscTmrSERREn-

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=375mA PME(D0+,D1-,D2-,D3hot+,D3cold+)

Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] MSI: Enable- Count=1/1 Maskable+ 64bit+

Address: 0000000000000000 Data: 0000

Masking: 00000000 Pending: 00000000

Capabilities: [70] Express (v2) Root Port (Slot-), MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0

ExtTag- RBE+

DevCtl: Report errors: Correctable+ Non-Fatal+ Fatal+ Unsupported+

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr+ TransPend-

LnkCap: Port #0, Speed 16GT/s, Width x8, ASPM not supported, Exit Latency L0s <1us, L1 <64us

ClockPM- Surprise+ LLActRep+ BwNot+ ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt+ AutBWInt-

LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive+ BWMgmt+ ABWMgmt+

RootCtl: ErrCorrectable- ErrNon-Fatal- ErrFatal- PMEIntEna+ CRSVisible+

RootCap: CRSVisible+

RootSta: PME ReqID 0000, PMEStatus- PMEPending-

DevCap2: Completion Timeout: Range ABCD, TimeoutDis+, LTR+, OBFF Not Supported ARIFwd-

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR+, OBFF Disabled ARIFwd-

LnkCtl2: Target Link Speed: 16GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+

EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest-

Capabilities: [b0] MSI-X: Enable- Count=8 Masked-

Vector table: BAR=2 offset=00000000

PBA: BAR=2 offset=00010000

Capabilities: [100 v2] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap+ CGenEn- ChkCap+ ChkEn-

Capabilities: [148 v1] #19

Capabilities: [168 v1] #26

Capabilities: [190 v1] #27

Capabilities: [1c0 v1] L1 PM Substates

L1SubCap: PCI-PM\_L1.2+ PCI-PM\_L1.1+ ASPM\_L1.2- ASPM\_L1.1- L1\_PM\_Substates+

PortCommonModeRestoreTime=60us PortTPowerOnTime=40us

L1SubCtl1: PCI-PM\_L1.2- PCI-PM\_L1.1- ASPM\_L1.2- ASPM\_L1.1-

T\_CommonMode=60us

L1SubCtl2: T\_PwrOn=40us

Capabilities: [1d0 v1] Vendor Specific Information: ID=0002 Rev=4 Len=100 <?>

Capabilities: [2d0 v1] Vendor Specific Information: ID=0001 Rev=1 Len=038 <?>

Capabilities: [308 v1] #25

Capabilities: [314 v1] Precision Time Measurement

PTMCap: Requester:+ Responder:+ Root:+

PTMClockGranularity: 16ns

PTMControl: Enabled:- RootSelected:-

PTMEffectiveGranularity: Unknown

Capabilities: [320 v1] Vendor Specific Information: ID=0004 Rev=1 Len=054 <?>

Kernel driver in use: pcieport

0005:01:00.0 Unassigned class [ff00]: Altera Corporation Device e003 (rev 01)

Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx+

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR- INTx-

Latency: 0

Interrupt: pin A routed to IRQ 819

Region 0: Memory at 1c20000000 (64-bit, prefetchable) [size=512]

Region 2: Memory at 1c00000000 (64-bit, prefetchable) [size=512M]

Capabilities: [50] MSI: Enable+ Count=1/4 Maskable- 64bit+

Address: 00000000fffff000 Data: 0000

Capabilities: [78] Power Management version 3

Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot-,D3cold-)

Status: D0 NoSoftRst- PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [80] Express (v2) Endpoint, MSI 00

DevCap: MaxPayload 256 bytes, PhantFunc 0, Latency L0s <64ns, L1 <1us

ExtTag- AttnBtn- AttnInd- PwrInd- RBE+ FLReset- SlotPowerLimit 0.000W

DevCtl: Report errors: Correctable- Non-Fatal- Fatal- Unsupported-

RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop+

MaxPayload 256 bytes, MaxReadReq 512 bytes

DevSta: CorrErr- UncorrErr- FatalErr- UnsuppReq- AuxPwr- TransPend-

LnkCap: Port #1, Speed 8GT/s, Width x8, ASPM not supported, Exit Latency L0s <4us, L1 <1us

ClockPM- Surprise- LLActRep- BwNot- ASPMOptComp+

LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- CommClk+

ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-

LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-

DevCap2: Completion Timeout: Not Supported, TimeoutDis+, LTR-, OBFF Not Supported

DevCtl2: Completion Timeout: 50us to 50ms, TimeoutDis-, LTR-, OBFF Disabled

LnkCtl2: Target Link Speed: 8GT/s, EnterCompliance- SpeedDis-

Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-

Compliance De-emphasis: -6dB

LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+

EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest-

Capabilities: [100 v1] Virtual Channel

Caps: LPEVC=0 RefClk=100ns PATEntryBits=1

Arb: Fixed- WRR32- WRR64- WRR128-

Ctrl: ArbSelect=Fixed

Status: InProgress-

VC0: Caps: PATOffset=00 MaxTimeSlots=1 RejSnoopTrans-

Arb: Fixed- WRR32- WRR64- WRR128- TWRR128- WRR256-

Ctrl: Enable+ ID=0 ArbSelect=Fixed TC/VC=ff

Status: NegoPending- InProgress-

Capabilities: [200 v1] Vendor Specific Information: ID=1172 Rev=0 Len=044 <?>

Capabilities: [300 v1] #19

Capabilities: [800 v1] Advanced Error Reporting

UESta: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq- ACSViol-

UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ ECRC- UnsupReq- ACSViol-

CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr-

CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+

AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-

Kernel driver in use: Altera DMA

root@ebots-rp:~#