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[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1021-oracle (buildd@bos02-
arm64-011) (gcc (Ubuntu 11.2.0-19ubuntu1) 11.2.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #27-Ubuntu SMP Fri Oct 14 20:04:20 UTC
2022 (Ubuntu 5.15.0-1021.27-oracle 5.15.60)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa28018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa20000 MEMRESERVE=0x638b40b18
[ 0.000000] secureboot: Secure boot disabled
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x000000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x000000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x000000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x000000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x000000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x000000006385CD898 000060 (v02 BOCHS
BXPCGTD 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x000000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x000000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x000000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x000000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x90000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x0000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe8f80-0x63cfedfff]
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000100000000-0x0000000063fffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x000000006386affff]
[ 0.000000] node 0: [mem
0x000000006386b0000-0x00000000638b3ffff]
[ 0.000000] node 0: [mem
0x00000000638b40000-0x0000000063be1ffff]
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[ 0.000000] node 0: [mem
0x000000063be20000-0x000000063beaffff]
[ 0.000000] node 0: [mem
0x000000063beb0000-0x000000063bebffff]
[ 0.000000] node 0: [mem
0x000000063bec0000-0x000000063bfdffff]
[ 0.000000] node 0: [mem
0x000000063bfe0000-0x000000063fffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1021-oracle root=LABEL=cloudimg-rootfs ro
console=tty1 console=ttyS0 nvme.shutdown_timeout=10
libiscsi.debug_libiscsi_eh=1 crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1021-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491876K/25165824K available (17344K kernel
code, 4554K rdata, 13848K rodata, 9536K init, 1191K bss, 641180K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalgn=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54005 entries in 211 pages
[ 0.000000] ftrace: allocated 211 pages with 5 groups
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[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000971] Console: colour dummy device 80x25
[ 0.001060] printk: console [tty1] enabled
[ 0.001239] ACPI: Core revision 20210730
[ 0.001447] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001451] pid_max: default: 32768 minimum: 301
[ 0.001665] LSM: Security Framework initializing
[ 0.001673] landlock: Up and running.
[ 0.001674] Yama: becoming mindful.
[ 0.002327] AppArmor: AppArmor initialized
[ 0.003180] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.003219] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006947] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.007111] rcu: Hierarchical SRCU implementation.
[ 0.007323] Platform MSI: ITS@0x8080000 domain created
[ 0.007484] PCI/MSI: ITS@0x8080000 domain created
[ 0.007643] fsl-mc MSI: ITS@0x8080000 domain created
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[ 0.007807] Remapping and enabling EFI services.
[ 0.008371] smp: Bringing up secondary CPUs ...
[ 0.023068] Detected PIPT I-cache on CPU1
[ 0.023091] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.023252] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
[ 0.023265] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.023283] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.037676] Detected PIPT I-cache on CPU2
[ 0.037699] GICv3: CPU2: found redistributor 2 region
0:0x00000000080e0000
[ 0.037864] GICv3: CPU2: using allocated LPI pending table
@0x0000000100220000
[ 0.037877] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.037895] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.052533] Detected PIPT I-cache on CPU3
[ 0.052557] GICv3: CPU3: found redistributor 3 region
0:0x0000000008100000
[ 0.052719] GICv3: CPU3: using allocated LPI pending table
@0x0000000100230000
[ 0.052732] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.052750] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.052838] smp: Brought up 1 node, 4 CPUs
[ 0.052863] SMP: Total of 4 processors activated.
[ 0.052866] CPU features: detected: 32-bit EL0 Support
[ 0.052868] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.052871] CPU features: detected: Common not Private
translations
[ 0.052872] CPU features: detected: CRC32 instructions
[ 0.052874] CPU features: detected: Data cache clean to Point of
Persistence
[ 0.052876] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.052878] CPU features: detected: LSE atomic instructions
[ 0.052880] CPU features: detected: Privileged Access Never
[ 0.052881] CPU features: detected: RAS Extension Support
[ 0.053042] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.154738] CPU: All CPU(s) started at EL1
[ 0.154779] alternatives: patching kernel code
[ 0.156946] devtmpfs: initialized
[ 0.158953] Registered cp15_barrier emulation handler
[ 0.158974] Registered setend emulation handler
[ 0.158976] KASLR disabled due to lack of seed
[ 0.159012] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.159027] futex hash table entries: 1024 (order: 4, 65536
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bytes, linear)
[ 0.159340] pinctrl core: initialized pinctrl subsystem
[ 0.160403] SMBIOS 3.0.0 present.
[ 0.160407] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.161525] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.163890] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.164127] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.164498] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.164510] audit: initializing netlink subsys (disabled)
[ 0.164570] audit: type=2000 audit(0.152:1): state=initialized
audit_enabled=0 res=1
[ 0.165331] thermal_sys: Registered thermal governor 'fair_share'
[ 0.165333] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.165336] thermal_sys: Registered thermal governor 'step_wise'
[ 0.165338] thermal_sys: Registered thermal governor 'user_space'
[ 0.165340] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.165351] cpuidle: using governor ladder
[ 0.165356] cpuidle: using governor menu
[ 0.165384] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.165458] ASID allocator initialised with 32768 entries
[ 0.165702] ACPI: bus type PCI registered
[ 0.165861] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.166079] Serial: AMBA PL011 UART driver
[ 0.167845] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.167849] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.167851] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.167853] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.170678] fbcon: Taking over console
[ 0.170691] ACPI: Added _OSI(Module Device)
[ 0.170693] ACPI: Added _OSI(Processor Device)
[ 0.170695] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.170697] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.170699] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.170700] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.170702] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.171286] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.171509] ACPI: Interpreter enabled
[ 0.171511] ACPI: Using GIC for interrupt routing
[ 0.171518] ACPI: MCFG table detected, 1 entries
[ 0.173309] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.440836] printk: console [ttyAMA0] enabled
[ 0.442949] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
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ff))
[ 0.444206] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.446076] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.447471] acpi PNP0A08:00: _OSC: OS now controls [PCIeHotplug
PME AER PCIeCapability]
[ 0.450557] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401ffffffff] reserved by PNP0C02:00
[ 0.453576] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401ffffffff] for [bus 00-ff]
[ 0.456134] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
[ 0.457937] PCI host bridge to bus 0000:00
[ 0.458681] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.459719] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.460925] pci_bus 0000:00: root bus resource [mem
0x100000000-0x3efefffff window]
[ 0.462299] pci_bus 0000:00: root bus resource [mem
0x8000000000-0xfffffffffff window]
[ 0.463784] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.465126] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.467960] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.471583] pci 0000:00:01.0: reg 0x20: [mem
0x8030000000-0x8030003fff 64bit pref]
[ 0.474395] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.475601] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.478038] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.480995] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.485413] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.489103] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.491477] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.495123] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.497847] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.502525] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.504895] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.508559] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.511857] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.515497] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.517912] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.522344] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.524691] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.528641] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
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[ 0.532456] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.536107] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.538602] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.544185] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.547400] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[ 0.551535] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.555814] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.560743] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.564789] pci 0000:00:11.2: reg 0x10: [mem
0x1300d000-0x1300dfff]
[ 0.569254] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.572437] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.577506] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.581040] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.586417] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.589804] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.594564] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.598552] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.602735] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.605981] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.611518] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.615024] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.620227] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.623423] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.628721] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.631082] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[ 0.634640] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[ 0.637055] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.641488] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.643781] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.647496] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.650849] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.654464] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.656839] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.661485] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.663976] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.680105] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
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[ 0.683850] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.686929] pci 0000:18:00.0: reg 0x20: [mem
0x802e00000-0x802e003fff 64bit pref]
[ 0.700423] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.701743] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.703590] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff] to [bus 01] add_size 200000 add_align 100000
[ 0.707624] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
[ 0.710536] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.714136] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000fffff] to [bus 02] add_size 200000 add_align 100000
[ 0.716083] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.717562] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.719776] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000fffff] to [bus 03] add_size 200000 add_align 100000
[ 0.721765] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.723209] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.726830] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000fffff] to [bus 04] add_size 200000 add_align 100000
[ 0.729899] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.731402] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.733515] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000fffff] to [bus 05] add_size 200000 add_align 100000
[ 0.735420] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.737286] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.740314] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000fffff] to [bus 06] add_size 200000 add_align 100000
[ 0.742264] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.743838] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.746045] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000fffff] to [bus 07] add_size 200000 add_align 100000
[ 0.747842] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
```



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to [bus 08] add_size 1000
[ 0.749373] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.753200] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.754966] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.757649] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.761406] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
[ 0.765129] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.768192] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.772218] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.775697] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.778764] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.782692] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.786080] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.788808] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.792371] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.795570] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.797120] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
[ 0.799253] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.801219] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.802740] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.804740] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.806701] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.808131] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.811746] pci 0000:00:11.6: bridge window [mem
```

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0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.814820] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.816938] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.819669] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.821626] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.823141] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
[ 0.825194] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.827163] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.828641] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.832650] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.835226] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.837936] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.841484] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.843946] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.846625] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.848847] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.850729] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.852161] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.854385] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.856349] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.857815] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.861279] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.863838] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.865210] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
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add_align 100000
[ 0.868739] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000fffff] to [bus 17] add_size 200000 add_align 100000
[ 0.870649] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.873225] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.877072] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.879120] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.880328] pci 0000:00:10.0: BAR 15: assigned [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.881863] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[ 0.883145] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.884606] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[ 0.885867] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.887590] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[ 0.889925] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.893544] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[ 0.894918] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.896419] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[ 0.897651] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.899171] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[ 0.900407] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.901873] pci 0000:00:10.7: BAR 14: assigned [mem
0x10e00000-0x10ffffff]
[ 0.903108] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 0.905226] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[ 0.907357] pci 0000:00:11.0: BAR 15: assigned [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.910300] pci 0000:00:11.1: BAR 14: assigned [mem
0x11200000-0x113ffffff]
[ 0.911957] pci 0000:00:11.1: BAR 15: assigned [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.913465] pci 0000:00:11.2: BAR 14: assigned [mem
0x11400000-0x115ffffff]
[ 0.915194] pci 0000:00:11.2: BAR 15: assigned [mem
0x8001400000-0x80015ffffff 64bit pref]
```

[0.917342] pci 0000:00:11.3: BAR 14: assigned [mem 0x11600000-0x117ffffff]
[0.918648] pci 0000:00:11.3: BAR 15: assigned [mem 0x8001600000-0x80017ffffff 64bit pref]
[0.920701] pci 0000:00:11.4: BAR 14: assigned [mem 0x11800000-0x119ffffff]
[0.922515] pci 0000:00:11.4: BAR 15: assigned [mem 0x8001800000-0x80019ffffff 64bit pref]
[0.924047] pci 0000:00:11.5: BAR 14: assigned [mem 0x11a00000-0x11bffffff]
[0.925290] pci 0000:00:11.5: BAR 15: assigned [mem 0x8001a00000-0x8001bffffff 64bit pref]
[0.926798] pci 0000:00:11.6: BAR 14: assigned [mem 0x11c00000-0x11dffffff]
[0.928038] pci 0000:00:11.6: BAR 15: assigned [mem 0x8001c00000-0x8001dffffff 64bit pref]
[0.929460] pci 0000:00:11.7: BAR 14: assigned [mem 0x11e00000-0x11fffffff]
[0.930750] pci 0000:00:11.7: BAR 15: assigned [mem 0x8001e00000-0x8001fffffff 64bit pref]
[0.932272] pci 0000:00:12.0: BAR 14: assigned [mem 0x12000000-0x121ffffff]
[0.934926] pci 0000:00:12.0: BAR 15: assigned [mem 0x8002000000-0x80021ffffff 64bit pref]
[0.938545] pci 0000:00:12.1: BAR 14: assigned [mem 0x12200000-0x123ffffff]
[0.940806] pci 0000:00:12.1: BAR 15: assigned [mem 0x8002200000-0x80023ffffff 64bit pref]
[0.943151] pci 0000:00:12.2: BAR 14: assigned [mem 0x12400000-0x125ffffff]
[0.945461] pci 0000:00:12.2: BAR 15: assigned [mem 0x8002400000-0x80025ffffff 64bit pref]
[0.948100] pci 0000:00:12.3: BAR 14: assigned [mem 0x12600000-0x127ffffff]
[0.950128] pci 0000:00:12.3: BAR 15: assigned [mem 0x8002600000-0x80027ffffff 64bit pref]
[0.952745] pci 0000:00:12.4: BAR 14: assigned [mem 0x12800000-0x129ffffff]
[0.954863] pci 0000:00:12.4: BAR 15: assigned [mem 0x8002800000-0x80029ffffff 64bit pref]
[0.957521] pci 0000:00:12.5: BAR 14: assigned [mem 0x12a00000-0x12bffffff]
[0.959431] pci 0000:00:12.5: BAR 15: assigned [mem 0x8002a00000-0x8002bffffff 64bit pref]
[0.962010] pci 0000:00:12.6: BAR 14: assigned [mem 0x12c00000-0x12dffffff]
[0.964244] pci 0000:00:12.6: BAR 15: assigned [mem 0x8002c00000-0x8002dffffff 64bit pref]
[0.966852] pci 0000:00:12.7: BAR 14: assigned [mem 0x12e00000-0x12fffffff]
[0.968726] pci 0000:00:12.7: BAR 15: assigned [mem 0x8002e00000-0x8002fffffff 64bit pref]
[0.971152] pci 0000:00:01.0: BAR 4: assigned [mem 0x8003000000-0x8003003fff 64bit pref]

[0.974750] pci 0000:00:02.0: BAR 0: assigned [mem 0x8003004000-0x8003007fff 64bit]
[0.977824] pci 0000:00:03.0: BAR 4: assigned [mem 0x8003008000-0x800300bfff 64bit pref]
[0.981139] pci 0000:00:01.0: BAR 1: assigned [mem 0x13000000-0x13000fff]
[0.984196] pci 0000:00:03.0: BAR 1: assigned [mem 0x13001000-0x13001fff]
[0.987204] pci 0000:00:10.0: BAR 0: assigned [mem 0x13002000-0x13002fff]
[0.989984] pci 0000:00:10.0: BAR 13: assigned [io 0x1000-0x1fff]
[0.992131] pci 0000:00:10.1: BAR 0: assigned [mem 0x13003000-0x13003fff]
[0.994949] pci 0000:00:10.1: BAR 13: assigned [io 0x2000-0x2fff]
[0.997017] pci 0000:00:10.2: BAR 0: assigned [mem 0x13004000-0x13004fff]
[0.999940] pci 0000:00:10.2: BAR 13: assigned [io 0x3000-0x3fff]
[1.002223] pci 0000:00:10.3: BAR 0: assigned [mem 0x13005000-0x13005fff]
[1.005518] pci 0000:00:10.3: BAR 13: assigned [io 0x4000-0x4fff]
[1.007498] pci 0000:00:10.4: BAR 0: assigned [mem 0x13006000-0x13006fff]
[1.010019] pci 0000:00:10.4: BAR 13: assigned [io 0x5000-0x5fff]
[1.012148] pci 0000:00:10.5: BAR 0: assigned [mem 0x13007000-0x13007fff]
[1.014698] pci 0000:00:10.5: BAR 13: assigned [io 0x6000-0x6fff]
[1.017019] pci 0000:00:10.6: BAR 0: assigned [mem 0x13008000-0x13008fff]
[1.019499] pci 0000:00:10.6: BAR 13: assigned [io 0x7000-0x7fff]
[1.021821] pci 0000:00:10.7: BAR 0: assigned [mem 0x13009000-0x13009fff]
[1.024451] pci 0000:00:10.7: BAR 13: assigned [io 0x8000-0x8fff]
[1.026583] pci 0000:00:11.0: BAR 0: assigned [mem 0x1300a000-0x1300afff]
[1.029257] pci 0000:00:11.0: BAR 13: assigned [io 0x9000-0x9fff]
[1.031331] pci 0000:00:11.1: BAR 0: assigned [mem 0x1300b000-0x1300bfff]
[1.033894] pci 0000:00:11.1: BAR 13: assigned [io 0xa000-0xafff]
[1.035909] pci 0000:00:11.2: BAR 0: assigned [mem 0x1300c000-0x1300cfff]
[1.038352] pci 0000:00:11.2: BAR 13: assigned [io 0xb000-0xbfff]
[1.040285] pci 0000:00:11.3: BAR 0: assigned [mem 0x1300d000-0x1300dfff]

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[ 1.042691] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 1.044672] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 1.047650] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 1.049929] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 1.052421] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 1.054337] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 1.056808] pci 0000:00:11.6: BAR 13: assigned [io
0xf000-0xffff]
[ 1.058854] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 1.061461] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 1.063042] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 1.064230] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 1.065906] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 1.067069] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 1.068280] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 1.069950] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 1.071149] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 1.072363] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 1.074012] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 1.075174] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 1.076376] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 1.078050] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 1.079164] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 1.080404] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[ 1.082020] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 1.083206] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 1.084492] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 1.086301] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
```

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[ 1.088061] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 1.089291] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 1.091035] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 1.092251] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[ 1.093522] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 1.095534] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 1.096741] pci 0000:00:12.7: BAR 13: failed to assign [io size
0x1000]
[ 1.098089] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 1.099198] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 1.100346] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 1.101447] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 1.102573] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 1.103670] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 1.104813] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 1.105930] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 1.107266] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 1.108395] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 1.109517] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 1.110620] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[ 1.111702] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 1.112855] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 1.114004] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 1.115072] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 1.116201] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 1.117425] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 1.118560] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 1.119686] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
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[ 1.120881] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 1.122123] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 1.123300] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 1.124591] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 1.125774] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 1.127124] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 1.128366] pci 0000:00:10.3: BAR 13: failed to assign [io size
0x1000]
[ 1.129611] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 1.130748] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 1.131986] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 1.133910] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 1.136185] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 1.138395] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 1.140336] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 1.142768] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 1.145591] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 1.149677] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 1.152027] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 1.154725] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 1.158097] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 1.160778] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105ffffff]
[ 1.163546] pci 0000:00:10.2: bridge window [mem
0x800040000-0x80005ffffff 64bit pref]
[ 1.167131] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 1.170242] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 1.172034] pci 0000:00:10.3: bridge window [mem
0x800060000-0x80007ffffff 64bit pref]
[ 1.174530] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 1.176158] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 1.177972] pci 0000:00:10.4: bridge window [mem
0x800080000-0x80009ffffff 64bit pref]
[ 1.180401] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 1.182108] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
```



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[ 1.183912] pci 0000:00:10.5: bridge window [mem
0x8000a00000-0x8000bfffffff 64bit pref]
[ 1.186504] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 1.188201] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dfffffff]
[ 1.191325] pci 0000:00:10.6: bridge window [mem
0x8000c00000-0x8000dfffffff 64bit pref]
[ 1.193793] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 1.195466] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10fffffff]
[ 1.197266] pci 0000:00:10.7: bridge window [mem
0x8000e00000-0x8000ffffffff 64bit pref]
[ 1.199779] pci 0000:00:11.0: PCI bridge to [bus 09]
[ 1.202228] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111fffffff]
[ 1.204115] pci 0000:00:11.0: bridge window [mem
0x8001000000-0x80011fffffff 64bit pref]
[ 1.207586] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 1.208543] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 1.210410] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113fffffff]
[ 1.212184] pci 0000:00:11.1: bridge window [mem
0x8001200000-0x80013fffffff 64bit pref]
[ 1.214652] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 1.215622] pci 0000:00:11.2: bridge window [io 0xe000-0xefff]
[ 1.217470] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115fffffff]
[ 1.219254] pci 0000:00:11.2: bridge window [mem
0x8001400000-0x80015fffffff 64bit pref]
[ 1.221771] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 1.224039] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 1.226760] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117fffffff]
[ 1.228568] pci 0000:00:11.3: bridge window [mem
0x8001600000-0x80017fffffff 64bit pref]
[ 1.231016] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 1.231944] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 1.233775] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119fffffff]
[ 1.235653] pci 0000:00:11.4: bridge window [mem
0x8001800000-0x80019fffffff 64bit pref]
[ 1.238375] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 1.240400] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 1.244047] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bfffffff]
[ 1.247061] pci 0000:00:11.5: bridge window [mem
0x8001a00000-0x8001bfffffff 64bit pref]
[ 1.249789] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 1.250768] pci 0000:00:11.6: bridge window [io 0xa000-0xaaff]
[ 1.252651] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dfffffff]
[ 1.254526] pci 0000:00:11.6: bridge window [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 1.257030] pci 0000:00:11.7: PCI bridge to [bus 10]
```

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[ 1.258023] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 1.259807] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11fffffff]
[ 1.261561] pci 0000:00:11.7: bridge window [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 1.264066] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 1.266129] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 1.268344] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121fffffff]
[ 1.270598] pci 0000:00:12.0: bridge window [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 1.273504] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 1.275269] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
[ 1.277560] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123fffffff]
[ 1.280318] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 1.284104] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 1.286795] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 1.289922] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125fffffff]
[ 1.292754] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 1.296525] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 1.298485] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 1.301320] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127fffffff]
[ 1.304221] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 1.308077] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 1.309783] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 1.312284] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129fffffff]
[ 1.315455] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 1.320192] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 1.322042] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 1.324756] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bfffffff]
[ 1.327606] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 1.331562] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 1.333495] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 1.336344] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dfffffff]
[ 1.339933] pci 0000:00:12.6: bridge window [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 1.343519] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 1.347110] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 1.350012] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 1.351719] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 1.354450] pci 0000:00:12.7: bridge window [mem
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0x12e00000-0x12ffffff]
[ 1.357467] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 1.362168] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 1.364275] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efefffff window]
[ 1.366549] pci_bus 0000:00: resource 6 [mem
0x800000000-0xfffffffffff window]
[ 1.368793] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 1.370751] pci_bus 0000:01: resource 2 [mem
0x800000000-0x80001ffffff 64bit pref]
[ 1.373060] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 1.375043] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 1.377535] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 1.379424] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 1.381881] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 1.383813] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 1.386330] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 1.388294] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 1.390968] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 1.392971] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 1.395803] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 1.398292] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 1.401137] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10ffffff]
[ 1.403180] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 1.405362] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111ffffff]
[ 1.407369] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 1.409368] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 1.410419] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113ffffff]
[ 1.411566] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 1.412916] pci_bus 0000:0b: resource 0 [io 0xe000-0xefff]
[ 1.413878] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115ffffff]
[ 1.415000] pci_bus 0000:0b: resource 2 [mem
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0x8001400000-0x80015ffffff 64bit pref]
[ 1.416423] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 1.417447] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117ffffff]
[ 1.418579] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 1.420297] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 1.421322] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 1.422444] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 1.423766] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 1.424761] pci_bus 0000:0e: resource 1 [mem
0x11a00000-0x11bffffff]
[ 1.425895] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 1.427265] pci_bus 0000:0f: resource 0 [io 0xa000-0xafff]
[ 1.428246] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dffffff]
[ 1.429559] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 1.432299] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 1.434118] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11ffffff]
[ 1.435894] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001ffffff 64bit pref]
[ 1.438346] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 1.440077] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121ffffff]
[ 1.442047] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 1.444035] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 1.445662] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123ffffff]
[ 1.447547] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 1.449988] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 1.451316] pci_bus 0000:13: resource 1 [mem
0x12400000-0x125ffffff]
[ 1.453328] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 1.455652] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 1.457425] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127ffffff]
[ 1.459195] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 1.461457] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 1.463322] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129ffffff]
[ 1.465193] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 1.467227] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 1.468284] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bffffff]
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[ 1.469461] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 1.470783] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 1.471885] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dfffffff]
[ 1.473025] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 1.474373] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 1.475380] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12fffffff]
[ 1.476540] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 1.478257] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
[ 1.479351] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 1.480408] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 1.481541] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 1.483001] iommu: Default domain type: Translated
[ 1.483990] iommu: DMA domain TLB invalidation policy: strict
mode
[ 1.486357] SCSI subsystem initialized
[ 1.488030] vgaarb: loaded
[ 1.489446] ACPI: bus type USB registered
[ 1.490363] usbcore: registered new interface driver usbfs
[ 1.491336] usbcore: registered new interface driver hub
[ 1.492362] usbcore: registered new device driver usb
[ 1.493386] pps_core: LinuxPPS API ver. 1 registered
[ 1.494335] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 1.495890] PTP clock support registered
[ 1.496946] EDAC MC: Ver: 3.0.0
[ 1.498633] Registered efivars operations
[ 1.501011] NetLabel: Initializing
[ 1.501702] NetLabel: domain hash size = 128
[ 1.502481] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 1.503491] NetLabel: unlabeled traffic allowed by default
[ 1.504906] clocksource: Switched to clocksource arch_sys_counter
[ 1.515276] VFS: Disk quotas dquot_6.6.0
[ 1.516010] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)
[ 1.517322] AppArmor: AppArmor Filesystem Enabled
[ 1.518218] pnp: PnP ACPI init
[ 1.518917] system 00:00: [mem 0x4010000000-0x401ffffffff window]
could not be reserved
[ 1.520329] pnp: PnP ACPI: found 1 devices
[ 1.523130] NET: Registered PF_INET protocol family
[ 1.524480] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.528176] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.531004] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.533144] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.535931] TCP bind hash table entries: 65536 (order: 8, 1048576
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bytes, linear)
[ 1.538322] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.540445] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.542519] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.544442] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.546705] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.548544] NET: Registered PF_XDP protocol family
[ 1.550244] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.552487] PCI: CLS 0 bytes, default 64
[ 1.553185] Trying to unpack rootfs image as initramfs...
[ 1.555887] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.558387] kvm [1]: HYP mode not available
[ 1.560029] Initialise system trusted keyrings
[ 1.561601] Key type blacklist registered
[ 1.562814] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.565680] zbud: loaded
[ 1.567132] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.569453] fuse: init (API version 7.34)
[ 1.570745] integrity: Platform Keyring initialized
[ 1.581371] Key type asymmetric registered
[ 1.583066] Asymmetric key parser 'x509' registered
[ 1.584506] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.587183] io scheduler mq-deadline registered
[ 1.590017] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.592400] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.594249] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.596114] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.601257] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.603195] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.605453] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[ 1.607359] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.612570] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[ 1.614432] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[ 1.614826] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[ 1.617784] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.621361] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[ 1.624012] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[ 1.625814] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[ 1.627234] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
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[ 1.631578] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[ 1.632916] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[ 1.634177] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[ 1.636452] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.642045] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[ 1.643339] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[ 1.643928] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[ 1.646175] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.649834] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[ 1.651979] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[ 1.654444] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[ 1.655795] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.659896] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[ 1.661290] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[ 1.663863] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[ 1.665121] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.669166] ACPI: \_SB_.PCI0.GSI1: Enabled at IRQ 36
[ 1.671132] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[ 1.672681] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[ 1.673330] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[ 1.675131] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.678591] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[ 1.680113] pcieport 0000:00:11.1: enabling device (0006 -> 0007)
[ 1.683622] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[ 1.685842] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[ 1.687021] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.690952] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[ 1.691370] pcieport 0000:00:11.2: enabling device (0006 -> 0007)
[ 1.695068] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[ 1.696633] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[ 1.698158] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.702163] pcieport 0000:00:11.3: enabling device (0006 -> 0007)
[ 1.704527] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.706040] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[ 1.706788] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.709860] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.713111] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.714279] pcieport 0000:00:11.4: enabling device (0006 -> 0007)
```

[1.717089] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[1.718508] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[1.720130] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.724078] pcieport 0000:00:11.5: enabling device (0006 -> 0007)
[1.727451] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[1.728843] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[1.729343] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[1.732837] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.739598] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[1.739602] pcieport 0000:00:11.6: enabling device (0006 -> 0007)
[1.744617] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[1.747787] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[1.750585] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.757332] pcieport 0000:00:11.7: enabling device (0006 -> 0007)
[1.758248] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[1.762838] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[1.766074] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[1.768398] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.773165] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[1.774778] ACPI: _SB_.PCI0.GSI2: Enabled at IRQ 37
[1.777603] pcieport 0000:00:12.0: enabling device (0006 -> 0007)
[1.779401] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[1.780548] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[1.781433] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.783915] pcieport 0000:00:12.1: enabling device (0006 -> 0007)
[1.786112] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[1.787025] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[1.788028] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[1.788887] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.791664] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[1.792057] pcieport 0000:00:12.2: enabling device (0006 -> 0007)
[1.794594] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[1.795308] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[1.795813] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.798848] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[1.799932] pcieport 0000:00:12.3: enabling device (0006 -> 0007)
[1.802016] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[1.802955] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[1.803738] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+


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NoCompl- IbPresDis- LLActRep+
[ 1.806330] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[ 1.806609] pcieport 0000:00:12.4: enabling device (0006 -> 0007)
[ 1.810147] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[ 1.811372] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[ 1.812601] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.818279] pcieport 0000:00:12.5: enabling device (0006 -> 0007)
[ 1.820717] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.822133] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.823044] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[ 1.824371] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.827359] pcieport 0000:00:12.6: enabling device (0006 -> 0007)
[ 1.829368] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.830522] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.831272] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.833144] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.835472] pcieport 0000:00:12.7: enabling device (0006 -> 0007)
[ 1.837734] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.838552] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.839003] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.840671] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.843568] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.843588] pcieport 0000:00:12.7: pciehp: Slot(0-23): Attention
button pressed
[ 1.845647] input: Power Button as /devices/LNXSYSTM:00/
LNXSYBUS:00/PNP0C0C:00/input/input0
[ 1.849433] pcieport 0000:00:12.7: pciehp: Slot(0-23): Powering
off due to button press
[ 1.850531] ACPI: button: Power Button [PWRB]
[ 1.854963] pcieport 0000:00:12.7: pciehp: Slot(0-23): Card not
present
[ 1.858821] pcieport 0000:00:12.7: pciehp: Slot(0-23): Already
disabled
[ 1.861903] Freeing initrd memory: 29532K
[ 1.862940] pcieport 0000:00:12.7: pciehp: Slot(0-23): Card
present
[ 1.864120] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.867237] pcieport 0000:00:12.7: pciehp: Slot(0-23): Link Up
[ 1.870524] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.873258] msm_serial: driver initialized
[ 1.874481] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.877034] loop: module loaded
[ 1.877610] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr

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[ 1.878834] tun: Universal TUN/TAP device driver, 1.6
[ 1.879833] PPP generic driver version 2.4.2
[ 1.880681] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.881897] ehci-pci: EHCI PCI platform driver
[ 1.882865] ehci-orion: EHCI orion driver
[ 1.884012] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.886119] ohci-pci: OHCI PCI platform driver
[ 1.887548] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.889216] mousedev: PS/2 mouse device common for all mice
[ 1.890246] rtc-efi rtc-efi.0: registered as rtc0
[ 1.891830] rtc-efi rtc-efi.0: setting system clock to
2022-11-24T23:03:28 UTC (1669331008)
[ 1.894405] i2c_dev: i2c /dev entries driver
[ 1.895351] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.898102] device-mapper: uevent: version 1.0.3
[ 1.899232] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.901197] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.902655] drop_monitor: Initializing network drop monitor
service
[ 1.904038] NET: Registered PF_INET6 protocol family
[ 1.924800] Segment Routing with IPv6
[ 1.925492] In-situ OAM (IOAM) with IPv6
[ 1.926233] NET: Registered PF_PACKET protocol family
[ 1.927467] Key type dns_resolver registered
[ 1.928519] registered taskstats version 1
[ 1.929917] Loading compiled-in X.509 certificates
[ 1.931696] Loaded X.509 cert 'Build time autogenerated kernel
key: 2c8db3d2e96401f4baed28acc10388b9cd9fb941'
[ 1.934651] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.937135] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.939014] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.940274] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.942570] zswap: loaded using pool lzo/zbud
[ 1.943872] Key type ._fscrypt registered
[ 1.944658] Key type .fscrypt registered
[ 1.945544] Key type fscrypt-provisioning registered
[ 1.963698] cryptd: max_cpu_qlen set to 1000
[ 1.974383] Key type encrypted registered
[ 1.974897] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.975841] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.977306] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.979450] ima: No TPM chip found, activating TPM-bypass!
```

```
[ 1.980433] Loading compiled-in module X.509 certificates
[ 1.982275] Loaded X.509 cert 'Build time autogenerated kernel
key: 2c8db3d2e96401f4baed28acc10388b9cd9fb941'
[ 1.984128] ima: Allocated hash algorithm: sha1
[ 1.984879] ima: No architecture policies found
[ 1.986548] evm: Initialising EVM extended attributes:
[ 1.988313] evm: security.selinux
[ 1.989466] evm: security.SMACK64
[ 1.990391] evm: security.SMACK64EXEC
[ 1.991448] evm: security.SMACK64TRANSMUTE
[ 1.992975] evm: security.SMACK64MMAP
[ 1.994091] evm: security.apparmor
[ 1.995318] evm: security.ima
[ 1.996480] evm: security.capability
[ 1.997675] evm: HMAC attrs: 0x1
[ 2.001486] Freeing unused kernel memory: 9536K
[ 2.073998] Checked W+X mappings: passed, no W+X pages found
[ 2.075365] Run /init as init process
[ 2.284564] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 2.285624] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 2.288842] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 2.307725] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 2.308814] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 2.310430] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 2.311869] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 2.315249] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 2.317261] usb usb1: Product: xHCI Host Controller
[ 2.318799] usb usb1: Manufacturer: Linux 5.15.0-1021-oracle
xhci-hcd
[ 2.321095] usb usb1: SerialNumber: 0000:00:02.0
[ 2.323142] hub 1-0:1.0: USB hub found
[ 2.324045] hub 1-0:1.0: 4 ports detected
[ 2.325815] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 2.327860] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 2.329689] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 2.331298] usb usb2: Product: xHCI Host Controller
[ 2.332141] usb usb2: Manufacturer: Linux 5.15.0-1021-oracle
xhci-hcd
[ 2.333131] usb usb2: SerialNumber: 0000:00:02.0
[ 2.333368] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 2.335193] hub 2-0:1.0: USB hub found
[ 2.337398] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 2.338234] hub 2-0:1.0: 4 ports detected
[ 2.344231] [drm] number of scanouts: 1
```

```
[ 2.345534] scsi host0: Virtio SCSI HBA
[ 2.345744] [drm] number of cap sets: 0
[ 2.352048] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 2.355545] scsi 0:0:0:1: Direct-Access      ORACLE   BlockVolume
1.0 PQ: 0 ANSI: 6
[ 2.369282] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 2.369291] Console: switching to colour frame buffer device
128x48
[ 2.381655] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 2.382092] scsi 0:0:0:1: Attached scsi generic sg0 type 0
[ 2.384394] sd 0:0:0:1: Power-on or device reset occurred
[ 2.391689] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 2.393301] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 2.395272] sd 0:0:0:1: [sda] Write Protect is off
[ 2.397620] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 2.400636] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 2.438130] virtio_net virtio1 enp0s3: renamed from eth0
[ 2.441156] GPT:Primary header thinks Alt. header is not at the
end of the disk.
[ 2.442765] GPT:6291455 != 411041791
[ 2.443727] GPT:Alternate GPT header not at the end of the disk.
[ 2.444843] GPT:6291455 != 411041791
[ 2.446145] GPT: Use GNU Parted to correct GPT errors.
[ 2.447164] sda: sda1 sda15
[ 2.478421] sd 0:0:0:1: [sda] Attached SCSI disk
[ 2.661380] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.828927] raid6: neonx8 gen() 13838 MB/s
[ 2.896924] raid6: neonx8 xor() 10845 MB/s
[ 2.964923] raid6: neonx4 gen() 13579 MB/s
[ 3.032930] raid6: neonx4 xor() 11312 MB/s
[ 3.100923] raid6: neonx2 gen() 13001 MB/s
[ 3.168923] raid6: neonx2 xor() 10304 MB/s
[ 3.196951] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 3.232963] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 3.232983] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
found
[ 3.237189] raid6: neonx1 gen() 10417 MB/s
[ 3.252974] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 3.260974] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 3.280968] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 3.289034] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 3.304920] raid6: neonx1 xor() 8579 MB/s
```

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[ 3.316997] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 3.317025] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 3.344985] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 3.372930] raid6: int64x8 gen() 6104 MB/s
[ 3.372970] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 3.376994] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 3.400956] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 3.405013] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
found
[ 3.436958] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 3.436980] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
[ 3.440930] raid6: int64x8 xor() 3441 MB/s
[ 3.468970] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 3.508929] raid6: int64x4 gen() 7219 MB/s
[ 3.576930] raid6: int64x4 xor() 3857 MB/s
[ 3.644926] raid6: int64x2 gen() 6164 MB/s
[ 3.712925] raid6: int64x2 xor() 3326 MB/s
[ 3.780929] raid6: int64x1 gen() 5063 MB/s
[ 3.848925] raid6: int64x1 xor() 2650 MB/s
[ 3.851343] raid6: using algorithm neonx8 gen() 13838 MB/s
[ 3.853014] raid6: .... xor() 10845 MB/s, rmw enabled
[ 3.854540] raid6: using neon recovery algorithm
[ 3.858965] xor: measuring software checksum speed
[ 3.860806] 8regs : 17297 MB/sec
[ 3.862801] 32regs : 20739 MB/sec
[ 3.864806] arm64_neon : 27892 MB/sec
[ 3.866349] xor: using function: arm64_neon (27892 MB/sec)
[ 3.870078] async_tx: api initialized (async)
[ 3.881966] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 3.884496] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 3.886437] usb 1-1: Product: QEMU USB Tablet
[ 3.887601] usb 1-1: Manufacturer: QEMU
[ 3.888956] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 4.016939] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 4.165407] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 4.167942] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 4.170323] usb 1-2: Product: QEMU USB Keyboard
[ 4.171992] usb 1-2: Manufacturer: QEMU
[ 4.173517] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 4.300943] usb 1-3: new high-speed USB device number 4 using
```

```
xhci_hcd
[ 4.313010] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 4.341010] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 4.369054] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 4.424956] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 4.449446] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 4.452290] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 4.454842] usb 1-3: Product: QEMU USB Mouse
[ 4.456439] usb 1-3: Manufacturer: QEMU
[ 4.458179] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 4.460034] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 4.468789] hid: raw HID events driver (C) Jiri Kosina
[ 4.475667] usbcore: registered new interface driver usbhid
[ 4.479009] usbhid: USB HID core driver
[ 4.484822] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 4.488397] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 4.494392] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 4.516964] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 4.557331] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 4.562380] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 4.565953] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 4.605265] No iBFT detected.
[ 4.712895] Loading iSCSI transport class v2.0-870.
[ 4.721332] iscsi: registered transport (tcp)
[ 4.816400] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 4.923496] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 5.182209] systemd[1]: Inserted module 'autofs4'
[ 5.217380] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 5.228531] systemd[1]: Detected virtualization kvm.
```

```
[ 5.231023] systemd[1]: Detected architecture arm64.
[ 5.238308] systemd[1]: Hostname set to <ubuntu>.
[ 5.244966] systemd[1]: Initializing machine ID from VM UUID.
[ 5.247651] systemd[1]: Installed transient /etc/machine-id file.
[ 5.358922] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 5.644203] systemd[1]: Queued start job for default target
Graphical Interface.
[ 5.647636] random: systemd: uninitialized urandom read (16 bytes
read)
[ 5.652220] systemd[1]: Created slice Slice /system/modprobe.
[ 5.657750] random: systemd: uninitialized urandom read (16 bytes
read)
[ 5.660738] systemd[1]: Created slice Slice /system/serial-getty.
[ 5.664740] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 5.675989] systemd[1]: Created slice User and Session Slice.
[ 5.679938] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 5.685556] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 5.696918] systemd[1]: Reached target Slice Units.
[ 5.699063] systemd[1]: Reached target Swaps.
[ 5.701300] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 5.704819] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 5.708084] systemd[1]: Listening on LVM2 poll daemon socket.
[ 5.720457] systemd[1]: Listening on multipathd control socket.
[ 5.728186] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 5.741343] systemd[1]: Listening on Syslog Socket.
[ 5.744781] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 5.748275] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 5.751652] systemd[1]: Listening on Journal Audit Socket.
[ 5.755404] systemd[1]: Listening on Journal Socket (/dev/log).
[ 5.758551] systemd[1]: Listening on Journal Socket.
[ 5.761383] systemd[1]: Listening on Network Service Netlink
Socket.
[ 5.764723] systemd[1]: Listening on udev Control Socket.
[ 5.769954] systemd[1]: Listening on udev Kernel Socket.
[ 5.781788] systemd[1]: Mounting Huge Pages File System...
[ 5.786782] systemd[1]: Mounting POSIX Message Queue File
System...
[ 5.798043] systemd[1]: Mounting Kernel Debug File System...
[ 5.801519] systemd[1]: Mounting Kernel Trace File System...
[ 5.806803] systemd[1]: Starting Journal Service...
[ 5.815724] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 5.820363] systemd[1]: Starting Set the console keyboard
layout...
[ 5.825517] systemd[1]: Starting Create List of Static Device
Nodes...
```

```
[ 5.834439] systemd[1]: Starting Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling...
[ 5.842464] systemd[1]: Condition check resulted in LXDM - agent
being skipped.
[ 5.846371] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 5.853751] systemd[1]: Starting Load Kernel Module configfs...
[ 5.867392] systemd[1]: Starting Load Kernel Module drm...
[ 5.871006] systemd[1]: Starting Load Kernel Module efi_pstore...
[ 5.878153] systemd[1]: Starting Load Kernel Module fuse...
[ 5.888100] pstore: Using crash dump compression: deflate
[ 5.888106] pstore: Registered efi as persistent store backend
[ 5.893285] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 5.897529] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 5.904033] systemd[1]: Starting Load Kernel Module ramoops...
[ 5.908403] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 5.910737] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 5.916177] systemd[1]: Starting Load Kernel Modules...
[ 5.922800] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 5.931619] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 5.941857] systemd[1]: Starting Coldplug All udev Devices...
[ 5.950567] systemd[1]: Mounted Huge Pages File System.
[ 5.954396] systemd[1]: Mounted POSIX Message Queue File System.
[ 5.956688] systemd[1]: Mounted Kernel Debug File System.
[ 5.965422] systemd[1]: Started Journal Service.
[ 6.024821] alua: device handler registered
[ 6.030275] emc: device handler registered
[ 6.031867] systemd-journald[508]: Received client request to
flush runtime journal.
[ 6.033069] rdac: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

```
ubuntu login: [ 2085.409705] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (bulld@bos02-
arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC
2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa66018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa67000 MEMRESERVE=0x638b41798
[ 0.000000] secureboot: Secure boot disabled
```



```
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x00000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x00000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x00000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x00000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x00000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x00000006385CD898 000060 (v02 BOCHS
BXPCGTDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x00000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x00000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x00000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x00000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x9000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000100000000-0x000000063fffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x00000006386affff]
[ 0.000000] node 0: [mem
0x00000006386b0000-0x0000000638b3ffff]
[ 0.000000] node 0: [mem
0x0000000638b40000-0x000000063be1ffff]
[ 0.000000] node 0: [mem
0x000000063be20000-0x000000063beaffff]
[ 0.000000] node 0: [mem
0x000000063beb0000-0x000000063bebffff]
[ 0.000000] node 0: [mem
0x000000063bec0000-0x000000063bfdffff]
[ 0.000000] node 0: [mem
0x000000063bfe0000-0x000000063fffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
```

```
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_eh=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irq: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
```

```
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000891] Console: colour dummy device 80x25
[ 0.000993] printk: console [tty1] enabled
[ 0.001163] ACPI: Core revision 20210730
[ 0.001354] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001359] pid_max: default: 32768 minimum: 301
[ 0.001547] LSM: Security Framework initializing
[ 0.001555] landlock: Up and running.
[ 0.001556] Yama: becoming mindful.
[ 0.002151] AppArmor: AppArmor initialized
[ 0.002928] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.002963] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006253] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.006407] rcu: Hierarchical SRCU implementation.
[ 0.006616] Platform MSI: ITS@0x8080000 domain created
[ 0.006763] PCI/MSI: ITS@0x8080000 domain created
[ 0.006908] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007059] Remapping and enabling EFI services.
[ 0.007613] smp: Bringing up secondary CPUs ...
[ 0.022199] Detected PIPT I-cache on CPU1
[ 0.022219] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.022281] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
[ 0.022294] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.022312] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.036615] Detected PIPT I-cache on CPU2
[ 0.036637] GICv3: CPU2: found redistributor 2 region
```

```
0:0x000000000080e0000
[ 0.036698] GICv3: CPU2: using allocated LPI pending table
@0x0000000100220000
[ 0.036712] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.036730] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.051242] Detected PIPT I-cache on CPU3
[ 0.051267] GICv3: CPU3: found redistributor 3 region
0:0x0000000008100000
[ 0.051325] GICv3: CPU3: using allocated LPI pending table
@0x0000000100230000
[ 0.051341] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.051359] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.051446] smp: Brought up 1 node, 4 CPUs
[ 0.051470] SMP: Total of 4 processors activated.
[ 0.051472] CPU features: detected: 32-bit EL0 Support
[ 0.051474] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.051477] CPU features: detected: Common not Private
translations
[ 0.051478] CPU features: detected: CRC32 instructions
[ 0.051480] CPU features: detected: Data cache clean to Point of
Persistence
[ 0.051482] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.051484] CPU features: detected: LSE atomic instructions
[ 0.051485] CPU features: detected: Privileged Access Never
[ 0.051487] CPU features: detected: RAS Extension Support
[ 0.051645] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.149784] CPU: All CPU(s) started at EL1
[ 0.149832] alternatives: patching kernel code
[ 0.151881] devtmpfs: initialized
[ 0.153838] Registered cp15_barrier emulation handler
[ 0.153932] Registered setend emulation handler
[ 0.153935] KASLR disabled due to lack of seed
[ 0.153973] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.153986] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.154444] pinctrl core: initialized pinctrl subsystem
[ 0.155587] SMBIOS 3.0.0 present.
[ 0.155591] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.156675] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.158977] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.159219] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.159578] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.159591] audit: initializing netlink subsys (disabled)
[ 0.159659] audit: type=2000 audit(0.156:1): state=initialized
```

```
audit_enabled=0 res=1
[ 0.160411] thermal_sys: Registered thermal governor 'fair_share'
[ 0.160412] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.160416] thermal_sys: Registered thermal governor 'step_wise'
[ 0.160417] thermal_sys: Registered thermal governor 'user_space'
[ 0.160419] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.160431] cpuidle: using governor ladder
[ 0.160436] cpuidle: using governor menu
[ 0.160466] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.160537] ASID allocator initialised with 32768 entries
[ 0.160744] ACPI: bus type PCI registered
[ 0.160890] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.161125] Serial: AMBA PL011 UART driver
[ 0.162831] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.162835] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.162837] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.162838] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.165106] fbcon: Taking over console
[ 0.165118] ACPI: Added _OSI(Module Device)
[ 0.165120] ACPI: Added _OSI(Processor Device)
[ 0.165122] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.165124] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.165126] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.165127] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.165129] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.165708] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.165898] ACPI: Interpreter enabled
[ 0.165900] ACPI: Using GIC for interrupt routing
[ 0.165907] ACPI: MCFG table detected, 1 entries
[ 0.167664] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.337367] printk: console [ttyAMA0] enabled
[ 0.339241] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.340201] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.341635] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.342738] acpi PNP0A08:00: _OSC: OS now controls [PCIeHotplug
PME AER PCIeCapability]
[ 0.344029] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401ffffffff] reserved by PNP0C02:00
[ 0.345445] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401ffffffff] for [bus 00-ff]
[ 0.346559] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
```

```
[ 0.347994] PCI host bridge to bus 0000:00
[ 0.348576] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.349360] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.350294] pci_bus 0000:00: root bus resource [mem
0x10000000-0x3efeffff window]
[ 0.351284] pci_bus 0000:00: root bus resource [mem
0x800000000-0xffffffff window]
[ 0.352348] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.353437] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.355904] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.359005] pci 0000:00:01.0: reg 0x20: [mem
0x803000000-0x8030003fff 64bit pref]
[ 0.361020] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.361926] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.363195] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.366748] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.369809] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.371916] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.374106] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.378975] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.381135] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.384548] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.386642] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.391336] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.393453] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.396921] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.399038] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.404051] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.406187] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.409582] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[ 0.412824] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.416267] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.418323] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.421691] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.425221] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[ 0.428542] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.430599] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.435298] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.437366] pci 0000:00:11.2: reg 0x10: [mem
```

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0x1300d000-0x1300dfff]
[ 0.440727] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.442893] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.447645] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.449782] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.453226] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.455264] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.459897] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.461943] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.465325] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.467381] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.472552] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.474567] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.477941] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.481344] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.484811] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.486896] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[ 0.490291] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[ 0.493791] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.497217] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.499282] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.503956] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.506161] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.509525] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.511585] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.516232] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.518362] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.535443] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.539186] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.542136] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.556320] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.557387] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.558872] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff] to [bus 01] add_size 200000 add_align 100000
[ 0.561462] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
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[ 0.562544] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.563926] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.565949] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.566951] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.571016] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.572440] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.573627] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.575207] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.576615] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.577751] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.579257] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
[ 0.580654] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.581775] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.583299] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
[ 0.584656] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.585754] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.587086] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.588568] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.589650] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.591170] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.592564] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.593697] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.595212] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
```



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[ 0.596624] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.597722] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.599214] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.600619] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.601770] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.603152] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.604644] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.605743] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.607343] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.608741] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.609825] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
[ 0.611334] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.612831] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.613878] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.615392] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.616809] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.617976] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.619226] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.620650] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.621759] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.623291] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.624705] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.625782] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
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[ 0.627341] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.628715] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.629835] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.631313] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.632767] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.633755] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.635170] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.636533] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.637663] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.639183] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.640534] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.641646] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.643194] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.644695] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.645858] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.647387] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.648761] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.649868] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.651240] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.652725] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.653824] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.655320] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.656761] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.657730] pci 0000:00:10.0: BAR 15: assigned [mem
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0x8000000000-0x80001ffffff 64bit pref]
[0.658820] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[0.659723] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[0.660801] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[0.661756] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[0.662821] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[0.663733] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[0.664797] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[0.665725] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[0.666767] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[0.667637] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[0.668617] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[0.669846] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
[0.670941] pci 0000:00:10.7: BAR 14: assigned [mem
0x10e00000-0x10ffffff]
[0.671852] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e00000-0x8000ffffff 64bit pref]
[0.672907] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[0.673873] pci 0000:00:11.0: BAR 15: assigned [mem
0x8001000000-0x80011ffffff 64bit pref]
[0.674934] pci 0000:00:11.1: BAR 14: assigned [mem
0x11200000-0x113ffffff]
[0.675810] pci 0000:00:11.1: BAR 15: assigned [mem
0x8001200000-0x80013ffffff 64bit pref]
[0.676853] pci 0000:00:11.2: BAR 14: assigned [mem
0x11400000-0x115ffffff]
[0.677762] pci 0000:00:11.2: BAR 15: assigned [mem
0x8001400000-0x80015ffffff 64bit pref]
[0.678867] pci 0000:00:11.3: BAR 14: assigned [mem
0x11600000-0x117ffffff]
[0.679773] pci 0000:00:11.3: BAR 15: assigned [mem
0x8001600000-0x80017ffffff 64bit pref]
[0.680820] pci 0000:00:11.4: BAR 14: assigned [mem
0x11800000-0x119ffffff]
[0.681714] pci 0000:00:11.4: BAR 15: assigned [mem
0x8001800000-0x80019ffffff 64bit pref]
[0.682770] pci 0000:00:11.5: BAR 14: assigned [mem
0x11a00000-0x11bffffff]
[0.683712] pci 0000:00:11.5: BAR 15: assigned [mem
0x8001a00000-0x8001bffffff 64bit pref]
[0.684847] pci 0000:00:11.6: BAR 14: assigned [mem

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0x11c00000-0x11dfffffff]
[ 0.685890] pci 0000:00:11.6: BAR 15: assigned [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 0.686955] pci 0000:00:11.7: BAR 14: assigned [mem
0x11e00000-0x11fffffff]
[ 0.687842] pci 0000:00:11.7: BAR 15: assigned [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.688938] pci 0000:00:12.0: BAR 14: assigned [mem
0x12000000-0x121fffffff]
[ 0.689868] pci 0000:00:12.0: BAR 15: assigned [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 0.690955] pci 0000:00:12.1: BAR 14: assigned [mem
0x12200000-0x123fffffff]
[ 0.691893] pci 0000:00:12.1: BAR 15: assigned [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 0.693017] pci 0000:00:12.2: BAR 14: assigned [mem
0x12400000-0x125fffffff]
[ 0.693934] pci 0000:00:12.2: BAR 15: assigned [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 0.695050] pci 0000:00:12.3: BAR 14: assigned [mem
0x12600000-0x127fffffff]
[ 0.695965] pci 0000:00:12.3: BAR 15: assigned [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 0.697055] pci 0000:00:12.4: BAR 14: assigned [mem
0x12800000-0x129fffffff]
[ 0.697914] pci 0000:00:12.4: BAR 15: assigned [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 0.698830] pci 0000:00:12.5: BAR 14: assigned [mem
0x12a00000-0x12bfffffff]
[ 0.699683] pci 0000:00:12.5: BAR 15: assigned [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.700797] pci 0000:00:12.6: BAR 14: assigned [mem
0x12c00000-0x12dfffffff]
[ 0.701616] pci 0000:00:12.6: BAR 15: assigned [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.702680] pci 0000:00:12.7: BAR 14: assigned [mem
0x12e00000-0x12fffffff]
[ 0.703629] pci 0000:00:12.7: BAR 15: assigned [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.704709] pci 0000:00:01.0: BAR 4: assigned [mem
0x8003000000-0x8003003fff 64bit pref]
[ 0.706736] pci 0000:00:02.0: BAR 0: assigned [mem
0x8003004000-0x8003007fff 64bit]
[ 0.707785] pci 0000:00:03.0: BAR 4: assigned [mem
0x8003008000-0x800300bfff 64bit pref]
[ 0.709651] pci 0000:00:01.0: BAR 1: assigned [mem
0x13000000-0x13000fff]
[ 0.710995] pci 0000:00:03.0: BAR 1: assigned [mem
0x13001000-0x13001fff]
[ 0.712270] pci 0000:00:10.0: BAR 0: assigned [mem
0x13002000-0x13002fff]
[ 0.713541] pci 0000:00:10.0: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.714356] pci 0000:00:10.1: BAR 0: assigned [mem
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0x13003000-0x13003fff]
[ 0.715693] pci 0000:00:10.1: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.717236] pci 0000:00:10.2: BAR 0: assigned [mem
0x13004000-0x13004fff]
[ 0.718490] pci 0000:00:10.2: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.719264] pci 0000:00:10.3: BAR 0: assigned [mem
0x13005000-0x13005fff]
[ 0.720552] pci 0000:00:10.3: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.721375] pci 0000:00:10.4: BAR 0: assigned [mem
0x13006000-0x13006fff]
[ 0.722650] pci 0000:00:10.4: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.723338] pci 0000:00:10.5: BAR 0: assigned [mem
0x13007000-0x13007fff]
[ 0.724685] pci 0000:00:10.5: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.725518] pci 0000:00:10.6: BAR 0: assigned [mem
0x13008000-0x13008fff]
[ 0.726751] pci 0000:00:10.6: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.727533] pci 0000:00:10.7: BAR 0: assigned [mem
0x13009000-0x13009fff]
[ 0.728716] pci 0000:00:10.7: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.729540] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.730711] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.731513] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
[ 0.732688] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xafff]
[ 0.733544] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.734760] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.735589] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.736826] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.738352] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.739619] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.740450] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 0.741767] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 0.742590] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.743770] pci 0000:00:11.6: BAR 13: assigned [io
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0xf000-0xffff]
[ 0.744608] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.745878] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.746686] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.747564] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.748826] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.749709] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.750585] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.751852] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.752693] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.753589] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.754908] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.755774] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 0.756606] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 0.757994] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 0.759416] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 0.760338] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[ 0.761668] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 0.762515] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 0.763385] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 0.764720] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[ 0.765580] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 0.766461] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 0.767774] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 0.768651] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[ 0.769558] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 0.770854] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 0.771796] pci 0000:00:12.7: BAR 13: failed to assign [io size
```

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0x1000]
[ 0.772764] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.773610] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.774419] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.775232] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.776069] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.776902] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.777722] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.778548] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.779372] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.780180] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 0.781002] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.781720] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.782534] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.783354] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.784182] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.785053] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 0.785885] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.786742] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.787563] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.788420] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.789265] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.790153] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.790890] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.791829] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 0.792675] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.793607] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.794424] pci 0000:00:10.3: BAR 13: failed to assign [io size
```

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0x1000]
[ 0.795286] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.796135] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.797016] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.797888] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.798678] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.799530] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.800456] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.801836] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 0.803242] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.805244] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.806619] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 0.808025] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.810020] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.812457] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105ffffff]
[ 0.813838] pci 0000:00:10.2: bridge window [mem
0x800040000-0x80005ffffff 64bit pref]
[ 0.815796] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.817168] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 0.818518] pci 0000:00:10.3: bridge window [mem
0x800060000-0x80007ffffff 64bit pref]
[ 0.820457] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.822771] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 0.824105] pci 0000:00:10.4: bridge window [mem
0x800080000-0x80009ffffff 64bit pref]
[ 0.826111] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.827461] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
[ 0.828853] pci 0000:00:10.5: bridge window [mem
0x8000a0000-0x8000bffffff 64bit pref]
[ 0.830720] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.831983] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dffffff]
[ 0.834340] pci 0000:00:10.6: bridge window [mem
0x8000c0000-0x8000dffffff 64bit pref]
[ 0.836374] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.837764] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10ffffff]
[ 0.839158] pci 0000:00:10.7: bridge window [mem
0x8000e0000-0x8000ffffff 64bit pref]
[ 0.841129] pci 0000:00:11.0: PCI bridge to [bus 09]
```



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[ 0.842473] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.844822] pci 0000:00:11.0: bridge window [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.846794] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.847494] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.849070] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.850446] pci 0000:00:11.1: bridge window [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.852345] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.853101] pci 0000:00:11.2: bridge window [io 0xe000-0xffff]
[ 0.855334] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.856741] pci 0000:00:11.2: bridge window [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.858781] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.859438] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.860880] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.862361] pci 0000:00:11.3: bridge window [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.864337] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.865091] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.867366] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119ffffff]
[ 0.868773] pci 0000:00:11.4: bridge window [mem
0x800180000-0x80019ffffff 64bit pref]
[ 0.870846] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.871528] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.873023] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.874483] pci 0000:00:11.5: bridge window [mem
0x8001a0000-0x8001bffffff 64bit pref]
[ 0.877208] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.877925] pci 0000:00:11.6: bridge window [io 0xa000-0xafff]
[ 0.879492] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dffffff]
[ 0.880908] pci 0000:00:11.6: bridge window [mem
0x8001c0000-0x8001dffffff 64bit pref]
[ 0.882945] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.883667] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.885201] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11ffffff]
[ 0.886569] pci 0000:00:11.7: bridge window [mem
0x8001e0000-0x8001ffffff 64bit pref]
[ 0.889432] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.890107] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 0.891574] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121ffffff]
[ 0.892908] pci 0000:00:12.0: bridge window [mem
0x800200000-0x80021ffffff 64bit pref]
[ 0.894859] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.895533] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
```

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[ 0.897080] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123ffffff]
[ 0.899210] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.901232] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.901925] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.903445] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125ffffff]
[ 0.904861] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.906897] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.907575] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.909804] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127ffffff]
[ 0.911249] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.913225] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.913887] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.915398] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129ffffff]
[ 0.916748] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.918672] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.920302] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.921888] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bffffff]
[ 0.923214] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.925235] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 0.925946] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 0.927396] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dffffff]
[ 0.928770] pci 0000:00:12.6: bridge window [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 0.931601] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 0.933497] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 0.934843] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 0.935562] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 0.937071] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12ffffff]
[ 0.938450] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 0.940423] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 0.941173] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efefffff window]
[ 0.942927] pci_bus 0000:00: resource 6 [mem
0x8000000000-0xfffffffffff window]
[ 0.943847] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 0.944690] pci_bus 0000:01: resource 2 [mem
0x8000000000-0x80001ffffff 64bit pref]
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[ 0.945740] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 0.946555] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.947537] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 0.948369] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.949598] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 0.950465] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.951452] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 0.952276] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.953316] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 0.954178] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.955119] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 0.955958] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.956981] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10fffffff]
[ 0.957828] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 0.958945] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111ffffff]
[ 0.959840] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.960829] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 0.961569] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113ffffff]
[ 0.962381] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.963377] pci_bus 0000:0b: resource 0 [io 0xe000-0xefff]
[ 0.964113] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115ffffff]
[ 0.964973] pci_bus 0000:0b: resource 2 [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.965991] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 0.966666] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117ffffff]
[ 0.967594] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.968629] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 0.969423] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 0.970228] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.971217] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 0.971936] pci_bus 0000:0e: resource 1 [mem
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0x11a00000-0x11bfffffff]
[ 0.972766] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bfffffff 64bit pref]
[ 0.973786] pci_bus 0000:0f: resource 0 [io 0xa000-0xaaff]
[ 0.974438] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dfffffff]
[ 0.975503] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 0.976463] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 0.977240] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11fffffff]
[ 0.978062] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.979014] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 0.979693] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121fffffff]
[ 0.980576] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 0.981613] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 0.982329] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123fffffff]
[ 0.983185] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 0.984195] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 0.984970] pci_bus 0000:13: resource 1 [mem
0x12400000-0x125fffffff]
[ 0.985821] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 0.986823] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 0.987548] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127fffffff]
[ 0.988371] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 0.989427] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 0.990172] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129fffffff]
[ 0.991264] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 0.992255] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 0.993030] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bfffffff]
[ 0.993881] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.994897] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 0.995622] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dfffffff]
[ 0.996436] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.997427] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 0.998179] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12fffffff]
[ 0.999062] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 1.000155] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35

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[ 1.000947] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 1.001781] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 1.002587] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 1.003801] iommu: Default domain type: Translated
[ 1.004503] iommu: DMA domain TLB invalidation policy: strict
mode
[ 1.006306] SCSI subsystem initialized
[ 1.007174] vgaarb: loaded
[ 1.008114] ACPI: bus type USB registered
[ 1.008779] usbcore: registered new interface driver usbfs
[ 1.009511] usbcore: registered new interface driver hub
[ 1.010001] usbcore: registered new device driver usb
[ 1.010501] pps_core: LinuxPPS API ver. 1 registered
[ 1.010942] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 1.012709] PTP clock support registered
[ 1.013994] EDAC MC: Ver: 3.0.0
[ 1.015461] Registered efivars operations
[ 1.018375] NetLabel: Initializing
[ 1.020188] NetLabel: domain hash size = 128
[ 1.022290] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 1.024779] NetLabel: unlabeled traffic allowed by default
[ 1.028005] clocksource: Switched to clocksource arch_sys_counter
[ 1.040099] VFS: Disk quotas dquot_6.6.0
[ 1.042072] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)
[ 1.045509] AppArmor: AppArmor Filesystem Enabled
[ 1.047805] pnp: PnP ACPI init
[ 1.049462] system 00:00: [mem 0x4010000000-0x401fffffff window]
could not be reserved
[ 1.053760] pnp: PnP ACPI: found 1 devices
[ 1.056726] NET: Registered PF_INET protocol family
[ 1.059568] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.066923] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.072537] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.077715] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.082091] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.086089] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.089623] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.093432] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.097071] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.100858] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.101749] NET: Registered PF_XDP protocol family
[ 1.102509] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.104127] PCI: CLS 0 bytes, default 64
```

```
[ 1.104711] Trying to unpack rootfs image as initramfs...
[ 1.118247] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.119152] kvm [1]: HYP mode not available
[ 1.119744] Initialise system trusted keyrings
[ 1.120171] Key type blacklist registered
[ 1.120658] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.126551] zbud: loaded
[ 1.127690] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.130281] fuse: init (API version 7.34)
[ 1.131270] integrity: Platform Keyring initialized
[ 1.140722] Key type asymmetric registered
[ 1.141234] Asymmetric key parser 'x509' registered
[ 1.142037] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.143472] io scheduler mq-deadline registered
[ 1.145094] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.147083] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.148474] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.149590] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.152434] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.154830] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.156108] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[ 1.157221] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.160227] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[ 1.162559] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[ 1.163492] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[ 1.164035] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.171925] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[ 1.175791] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[ 1.176650] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[ 1.180399] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.183320] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[ 1.185670] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[ 1.187025] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[ 1.188140] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.190986] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[ 1.193039] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[ 1.194353] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[ 1.195843] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.202781] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
```

```
[ 1.204133] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[ 1.205367] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[ 1.207852] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.217958] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[ 1.221861] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[ 1.222510] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[ 1.227248] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.231335] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[ 1.231487] ACPI: \_SB_.PCI0.GSI1: Enabled at IRQ 36
[ 1.233851] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[ 1.235198] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[ 1.236249] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.239356] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[ 1.240233] pcieport 0000:00:11.1: enabling device (0006 -> 0007)
[ 1.242711] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[ 1.244135] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[ 1.245183] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.248147] pcieport 0000:00:11.2: enabling device (0006 -> 0007)
[ 1.250100] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[ 1.251751] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[ 1.252985] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[ 1.256237] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.265156] pcieport 0000:00:11.3: enabling device (0006 -> 0007)
[ 1.269832] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.273058] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[ 1.274240] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.279297] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.283331] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.283757] pcieport 0000:00:11.4: enabling device (0006 -> 0007)
[ 1.286537] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[ 1.288056] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[ 1.289169] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.292138] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[ 1.292713] pcieport 0000:00:11.5: enabling device (0006 -> 0007)
[ 1.295899] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[ 1.298081] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[ 1.300311] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.305798] pcieport 0000:00:11.6: enabling device (0006 -> 0007)
```

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[ 1.308749] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[ 1.309141] Freeing initrd memory: 29520K
[ 1.310619] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[ 1.312284] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[ 1.315922] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.324753] pcieport 0000:00:11.7: enabling device (0006 -> 0007)
[ 1.327337] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[ 1.330777] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[ 1.331497] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[ 1.335308] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.338780] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[ 1.340595] ACPI: \_SB_.PCI0.GSI2: Enabled at IRQ 37
[ 1.341641] pcieport 0000:00:12.0: enabling device (0006 -> 0007)
[ 1.343589] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[ 1.345185] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[ 1.346383] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.349439] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[ 1.351224] pcieport 0000:00:12.1: enabling device (0006 -> 0007)
[ 1.353209] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[ 1.354639] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[ 1.355701] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.358859] pcieport 0000:00:12.2: enabling device (0006 -> 0007)
[ 1.360853] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[ 1.362676] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[ 1.363991] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[ 1.367792] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.375815] pcieport 0000:00:12.3: enabling device (0006 -> 0007)
[ 1.380933] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[ 1.384848] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[ 1.385842] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[ 1.389880] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.392889] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[ 1.394276] pcieport 0000:00:12.4: enabling device (0006 -> 0007)
[ 1.397376] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[ 1.399629] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[ 1.400768] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.403586] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.405392] pcieport 0000:00:12.5: enabling device (0006 -> 0007)
[ 1.407389] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.408894] pcieport 0000:00:12.5: AER: enabled with IRQ 72
```



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[ 1.410121] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.414064] pcieport 0000:00:12.6: enabling device (0006 -> 0007)
[ 1.417133] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.419439] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.419856] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.423445] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.426343] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.426946] pcieport 0000:00:12.7: enabling device (0006 -> 0007)
[ 1.428986] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.430062] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.430882] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.433720] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.435372] input: Power Button as /devices/LNXSYSTM:00/
LNXSYBUS:00/PNP0C0C:00/input/input0
[ 1.437679] ACPI: button: Power Button [PWRB]
[ 1.441829] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.444733] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.447971] msm_serial: driver initialized
[ 1.449706] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.452233] loop: module loaded
[ 1.453322] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.456076] tun: Universal TUN/TAP device driver, 1.6
[ 1.458345] PPP generic driver version 2.4.2
[ 1.459964] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.462332] ehci-pci: EHCI PCI platform driver
[ 1.463721] ehci-orion: EHCI orion driver
[ 1.465787] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.469065] ohci-pci: OHCI PCI platform driver
[ 1.471262] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.474806] mousedev: PS/2 mouse device common for all mice
[ 1.476209] rtc-efi rtc-efi.0: registered as rtc0
[ 1.477161] rtc-efi rtc-efi.0: setting system clock to
2022-11-24T23:38:22 UTC (1669333102)
[ 1.478829] i2c_dev: i2c /dev entries driver
[ 1.479944] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.482493] device-mapper: uevent: version 1.0.3
[ 1.483632] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.485594] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.486458] drop_monitor: Initializing network drop monitor
```

service

```
[ 1.487185] NET: Registered PF_INET6 protocol family
[ 1.507664] Segment Routing with IPv6
[ 1.508347] In-situ OAM (IOAM) with IPv6
[ 1.508999] NET: Registered PF_PACKET protocol family
[ 1.510318] Key type dns_resolver registered
[ 1.511449] registered taskstats version 1
[ 1.512959] Loading compiled-in X.509 certificates
[ 1.514585] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.516499] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.518352] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.519656] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.520699] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.522290] zswap: loaded using pool lzo/zbud
[ 1.523211] Key type ._fscrypt registered
[ 1.523741] Key type .fscrypt registered
[ 1.524274] Key type fscrypt-provisioning registered
[ 1.541513] cryptd: max_cpu_qlen set to 1000
[ 1.553152] Key type encrypted registered
[ 1.553656] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.554657] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.556059] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.557772] ima: No TPM chip found, activating TPM-bypass!
[ 1.558495] Loading compiled-in module X.509 certificates
[ 1.559801] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.561242] ima: Allocated hash algorithm: sha1
[ 1.561822] ima: No architecture policies found
[ 1.562417] evm: Initialising EVM extended attributes:
[ 1.562956] evm: security.selinux
[ 1.563471] evm: security.SMACK64
[ 1.563873] evm: security.SMACK64EXEC
[ 1.564345] evm: security.SMACK64TRANSMUTE
[ 1.564888] evm: security.SMACK64MMAP
[ 1.565352] evm: security.apparmor
[ 1.565809] evm: security.ima
[ 1.566218] evm: security.capability
[ 1.566697] evm: HMAC attrs: 0x1
[ 1.569851] Freeing unused kernel memory: 9536K
[ 1.624756] Checked W+X mappings: passed, no W+X pages found
[ 1.625471] Run /init as init process
[ 1.811543] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.812774] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.814097] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 1.816064] xhci_hcd 0000:00:02.0: xHCI Host Controller
```

```
[ 1.819110] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.823276] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.828161] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.833817] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.838470] usb usb1: Product: xHCI Host Controller
[ 1.841686] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.845995] usb usb1: SerialNumber: 0000:00:02.0
[ 1.877328] hub 1-0:1.0: USB hub found
[ 1.877891] hub 1-0:1.0: 4 ports detected
[ 1.880053] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.881167] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.882269] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.883157] usb usb2: Product: xHCI Host Controller
[ 1.883749] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.884627] usb usb2: SerialNumber: 0000:00:02.0
[ 1.885396] hub 2-0:1.0: USB hub found
[ 1.885918] hub 2-0:1.0: 4 ports detected
[ 1.904785] scsi host0: Virtio SCSI HBA
[ 1.908161] scsi 0:0:0:1: Direct-Access          ORACLE   BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.923873] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.924910] sd 0:0:0:1: Power-on or device reset occurred
[ 1.927638] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 1.928768] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.929843] sd 0:0:0:1: [sda] Write Protect is off
[ 1.931001] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.935925] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.971253] sda: sda1 sda15
[ 1.979046] virtio_net virtio1 enp0s3: renamed from eth0
[ 1.989149] sd 0:0:0:1: [sda] Attached SCSI disk
[ 1.994921] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 1.995669] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.998183] [drm] number of scanouts: 1
[ 1.998670] [drm] number of cap sets: 0
[ 2.001655] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 2.004225] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 2.004234] Console: switching to colour frame buffer device
128x48
[ 2.007776] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
```

```
[ 2.220017] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.336030] raid6: neonx8 gen() 13675 MB/s
[ 2.368482] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.370848] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 2.372366] usb 1-1: Product: QEMU USB Tablet
[ 2.372938] usb 1-1: Manufacturer: QEMU
[ 2.373971] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 2.404031] raid6: neonx8 xor() 10744 MB/s
[ 2.472031] raid6: neonx4 gen() 13486 MB/s
[ 2.500052] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 2.540022] raid6: neonx4 xor() 11228 MB/s
[ 2.608024] raid6: neonx2 gen() 12956 MB/s
[ 2.648506] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.649862] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 2.651514] usb 1-2: Product: QEMU USB Keyboard
[ 2.652112] usb 1-2: Manufacturer: QEMU
[ 2.652637] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 2.676025] raid6: neonx2 xor() 10177 MB/s
[ 2.744030] raid6: neonx1 gen() 10588 MB/s
[ 2.768093] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
found
[ 2.772183] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 2.780042] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
[ 2.796071] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 2.812022] raid6: neonx1 xor() 8731 MB/s
[ 2.832070] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 2.840074] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 2.844359] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 2.876126] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 2.880027] raid6: int64x8 gen() 6300 MB/s
[ 2.888061] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 2.904095] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 2.928467] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.929959] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 2.931348] usb 1-3: Product: QEMU USB Mouse
[ 2.932411] usb 1-3: Manufacturer: QEMU
[ 2.933396] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
```

```
[ 2.936095] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 2.943256] hid: raw HID events driver (C) Jiri Kosina
[ 2.944293] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 2.949185] raid6: int64x8 xor() 3618 MB/s
[ 2.953320] usbcore: registered new interface driver usbhid
[ 2.954504] usbhid: USB HID core driver
[ 2.958716] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 2.968528] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 2.968998] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 2.976680] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 2.992063] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 3.000097] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 3.016021] raid6: int64x4 gen() 7257 MB/s
[ 3.032059] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 3.032139] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 3.037865] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 3.043628] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 3.047523] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 3.068071] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 3.084025] raid6: int64x4 xor() 3856 MB/s
[ 3.096065] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 3.152029] raid6: int64x2 gen() 6174 MB/s
[ 3.220025] raid6: int64x2 xor() 3330 MB/s
[ 3.288029] raid6: int64x1 gen() 5058 MB/s
[ 3.356026] raid6: int64x1 xor() 2651 MB/s
[ 3.357414] raid6: using algorithm neonx8 gen() 13675 MB/s
[ 3.358784] raid6: .... xor() 10744 MB/s, rmw enabled
[ 3.360042] raid6: using neon recovery algorithm
[ 3.363781] xor: measuring software checksum speed
[ 3.368535] 8regs : 17275 MB/sec
[ 3.372150] 32regs : 20733 MB/sec
[ 3.375721] arm64_neon : 27788 MB/sec
[ 3.378917] xor: using function: arm64_neon (27788 MB/sec)
[ 3.384409] async_tx: api initialized (async)
[ 3.452589] No iBFT detected.
```

```
[ 3.572929] Loading iSCSI transport class v2.0-870.
[ 3.580855] iscsi: registered transport (tcp)
[ 3.676212] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 3.792818] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 3.880192] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 3.908067] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 3.968618] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 4.024056] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
found
[ 4.063463] systemd[1]: Inserted module 'autofs4'
[ 4.080059] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
[ 4.099729] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 4.106257] systemd[1]: Detected virtualization kvm.
[ 4.108851] systemd[1]: Detected architecture arm64.
[ 4.119370] systemd[1]: Hostname set to <ubuntu>.
[ 4.238574] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 4.483998] systemd[1]: Queued start job for default target
Graphical Interface.
[ 4.491437] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.521211] systemd[1]: Created slice Slice /system/modprobe.
[ 4.527611] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.534141] systemd[1]: Created slice Slice /system/serial-getty.
[ 4.536704] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 4.539091] systemd[1]: Created slice User and Session Slice.
[ 4.541276] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 4.544690] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 4.552241] systemd[1]: Reached target Slice Units.
[ 4.554240] systemd[1]: Reached target Swaps.
[ 4.556197] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 4.558483] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 4.560929] systemd[1]: Listening on LVM2 poll daemon socket.
[ 4.572793] systemd[1]: Listening on multipathd control socket.
[ 4.600832] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 4.603838] systemd[1]: Listening on Syslog Socket.
[ 4.606084] systemd[1]: Listening on fsck to fsckd communication
```

Socket.
[4.608507] systemd[1]: Listening on initctl Compatibility Named Pipe.
[4.611103] systemd[1]: Listening on Journal Audit Socket.
[4.613529] systemd[1]: Listening on Journal Socket (/dev/log).
[4.623814] systemd[1]: Listening on Journal Socket.
[4.625993] systemd[1]: Listening on Network Service Netlink Socket.
[4.628833] systemd[1]: Listening on udev Control Socket.
[4.632309] systemd[1]: Listening on udev Kernel Socket.
[4.635607] systemd[1]: Mounting Huge Pages File System...
[4.647200] systemd[1]: Mounting POSIX Message Queue File System...
[4.650450] systemd[1]: Mounting Kernel Debug File System...
[4.654328] systemd[1]: Mounting Kernel Trace File System...
[4.663990] systemd[1]: Starting Journal Service...
[4.672395] systemd[1]: Condition check resulted in Kernel Module supporting RPCSEC_GSS being skipped.
[4.683281] systemd[1]: Starting Set the console keyboard layout...
[4.687152] systemd[1]: Starting Create List of Static Device Nodes...
[4.698076] systemd[1]: Starting Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling...
[4.704408] systemd[1]: Condition check resulted in LXDMonitoring being skipped.
[4.707598] systemd[1]: Starting Load Kernel Module chromeos_pstore...
[4.711122] systemd[1]: Starting Load Kernel Module configs...
[4.717142] systemd[1]: Starting Load Kernel Module drm...
[4.722570] systemd[1]: Starting Load Kernel Module efi_pstore...
[4.730952] pstore: Using crash dump compression: deflate
[4.730957] pstore: Registered efi as persistent store backend
[4.736758] systemd[1]: Starting Load Kernel Module fuse...
[4.741503] systemd[1]: Starting Load Kernel Module pstore_blk...
[4.751486] systemd[1]: Starting Load Kernel Module pstore_zone...
[4.763252] systemd[1]: Starting Load Kernel Module ramoops...
[4.765477] systemd[1]: Condition check resulted in OpenVSwitch configuration for cleanup being skipped.
[4.767445] systemd[1]: Condition check resulted in File System Check on Root Device being skipped.
[4.772727] systemd[1]: Starting Load Kernel Modules...
[4.776551] systemd[1]: Starting Remount Root and Kernel File Systems...
[4.786621] EXT4-fs (sda1): re-mounted. Opts: discard,errors=remount-ro. Quota mode: none.
[4.798080] systemd[1]: Starting Coldplug All udev Devices...
[4.804550] systemd[1]: Mounted Huge Pages File System.
[4.806783] systemd[1]: Mounted POSIX Message Queue File System.
[4.817078] systemd[1]: Mounted Kernel Debug File System.
[4.819255] systemd[1]: Mounted Kernel Trace File System.
[4.821887] systemd[1]: Finished Set the console keyboard layout.
[4.824867] systemd[1]: Finished Create List of Static Device

Nodes.

```
[ 4.831574] systemd[1]: Finished Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling.
[ 4.836770] systemd[1]: Started Journal Service.
[ 4.882334] systemd-journald[513]: Received client request to
flush runtime journal.
[ 4.890886] alua: device handler registered
[ 4.894448] emc: device handler registered
[ 4.904771] rdac: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

```
ubuntu login: [16887.103439] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (buildd@bos02-
arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC
2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa67018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa69000 MEMRESERVE=0x638b41798
[ 0.000000] secureboot: Secure boot disabled
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x00000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x00000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x00000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x00000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x00000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x00000006385CD898 000060 (v02 BOCHS
BXPCGTDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x00000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x00000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x00000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x00000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x9000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
[ 0.000000] Zone ranges:
```



```
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000010000000-0x0000000063ffffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x000000006386affff]
[ 0.000000] node 0: [mem
0x000000006386b0000-0x00000000638b3ffff]
[ 0.000000] node 0: [mem
0x00000000638b40000-0x0000000063be1ffff]
[ 0.000000] node 0: [mem
0x0000000063be20000-0x0000000063beaffff]
[ 0.000000] node 0: [mem
0x0000000063beb0000-0x0000000063bebffff]
[ 0.000000] node 0: [mem
0x0000000063bec0000-0x0000000063bfdffff]
[ 0.000000] node 0: [mem
0x0000000063bfe0000-0x0000000063ffffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x0000000063ffffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_eh=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
```

```
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.001007] Console: colour dummy device 80x25
[ 0.001096] printk: console [tty1] enabled
[ 0.001282] ACPI: Core revision 20210730
[ 0.001487] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
```

```
[ 0.001491] pid_max: default: 32768 minimum: 301
[ 0.001693] LSM: Security Framework initializing
[ 0.001700] landlock: Up and running.
[ 0.001702] Yama: becoming mindful.
[ 0.002349] AppArmor: AppArmor initialized
[ 0.003190] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.003225] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006878] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.007034] rcu: Hierarchical SRCU implementation.
[ 0.007245] Platform MSI: ITS@0x8080000 domain created
[ 0.007402] PCI/MSI: ITS@0x8080000 domain created
[ 0.007557] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007719] Remapping and enabling EFI services.
[ 0.008316] smp: Bringing up secondary CPUs ...
[ 0.022956] Detected PIPT I-cache on CPU1
[ 0.022977] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.023036] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
[ 0.023048] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.023066] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.037360] Detected PIPT I-cache on CPU2
[ 0.037382] GICv3: CPU2: found redistributor 2 region
0:0x00000000080e0000
[ 0.037440] GICv3: CPU2: using allocated LPI pending table
@0x0000000100220000
[ 0.037454] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.037472] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.052127] Detected PIPT I-cache on CPU3
[ 0.052151] GICv3: CPU3: found redistributor 3 region
0:0x0000000008100000
[ 0.052210] GICv3: CPU3: using allocated LPI pending table
@0x0000000100230000
[ 0.052225] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.052243] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.052345] smp: Brought up 1 node, 4 CPUs
[ 0.052386] SMP: Total of 4 processors activated.
[ 0.052390] CPU features: detected: 32-bit EL0 Support
[ 0.052394] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.052396] CPU features: detected: Common not Private
translations
[ 0.052398] CPU features: detected: CRC32 instructions
[ 0.052399] CPU features: detected: Data cache clean to Point of
Persistence
```

```
[ 0.052402] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.052403] CPU features: detected: LSE atomic instructions
[ 0.052405] CPU features: detected: Privileged Access Never
[ 0.052407] CPU features: detected: RAS Extension Support
[ 0.052564] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.172462] CPU: All CPU(s) started at EL1
[ 0.172509] alternatives: patching kernel code
[ 0.174949] devtmpfs: initialized
[ 0.176751] Registered cp15_barrier emulation handler
[ 0.176769] Registered setend emulation handler
[ 0.176771] KASLR disabled due to lack of seed
[ 0.176809] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.176819] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.177304] pinctrl core: initialized pinctrl subsystem
[ 0.178498] SMBIOS 3.0.0 present.
[ 0.178502] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.179602] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.181761] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.182006] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.182383] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.182414] audit: initializing netlink subsys (disabled)
[ 0.182573] audit: type=2000 audit(0.180:1): state=initialized
audit_enabled=0 res=1
[ 0.183364] thermal_sys: Registered thermal governor 'fair_share'
[ 0.183366] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.183369] thermal_sys: Registered thermal governor 'step_wise'
[ 0.183371] thermal_sys: Registered thermal governor 'user_space'
[ 0.183373] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.183386] cpuidle: using governor ladder
[ 0.183390] cpuidle: using governor menu
[ 0.183421] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.183501] ASID allocator initialised with 32768 entries
[ 0.183720] ACPI: bus type PCI registered
[ 0.183875] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.184093] Serial: AMBA PL011 UART driver
[ 0.185937] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.185941] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.185943] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.185945] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.188657] fbcon: Taking over console
[ 0.188670] ACPI: Added _OSI(Module Device)
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[ 0.188671] ACPI: Added _OSI(Processor Device)
[ 0.188672] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.188673] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.188674] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.188675] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.188676] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.189283] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.189540] ACPI: Interpreter enabled
[ 0.189545] ACPI: Using GIC for interrupt routing
[ 0.189555] ACPI: MCFG table detected, 1 entries
[ 0.191336] ARMH0011:00: ttyAMA0 at MMIO 0x90000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.340422] printk: console [ttyAMA0] enabled
[ 0.342312] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.343194] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.344566] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.345701] acpi PNP0A08:00: _OSC: OS now controls [PCIEHotplug
PME AER PCIeCapability]
[ 0.346869] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401ffffffff] reserved by PNP0C02:00
[ 0.348209] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401ffffffff] for [bus 00-ff]
[ 0.349319] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
[ 0.350634] PCI host bridge to bus 0000:00
[ 0.351179] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.351910] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.352823] pci_bus 0000:00: root bus resource [mem
0x100000000-0x3efefffff window]
[ 0.353854] pci_bus 0000:00: root bus resource [mem
0x8000000000-0xfffffffffff window]
[ 0.354944] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.356006] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.358448] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.361449] pci 0000:00:01.0: reg 0x20: [mem
0x8030000000-0x8030003fff 64bit pref]
[ 0.363447] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.364340] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.365542] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.366441] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.368344] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.369602] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.371760] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.375198] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
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[ 0.377342] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.381812] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.383969] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.387402] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.389541] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.394273] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.396299] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.399581] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.401667] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.406243] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[ 0.408257] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.411484] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.414826] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.418151] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.420149] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[ 0.423473] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.426815] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.430092] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.431919] pci 0000:00:11.2: reg 0x10: [mem
0x1300d000-0x1300dfff]
[ 0.435207] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.438719] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.442080] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.444097] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.447340] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.450793] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.454053] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.455894] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.459138] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.462612] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.465975] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.468000] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.471455] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.474952] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.478542] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.480541] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[ 0.485238] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
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[ 0.487404] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.490820] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.492863] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.497616] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.499656] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.503045] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.505125] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.509835] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.511869] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.529504] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.533402] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.536262] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.550881] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.551875] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.553303] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 01] add_size 200000 add_align 100000
[ 0.556343] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
[ 0.557572] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.559032] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.560378] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.561457] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.562942] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.564260] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.565407] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.566682] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.568106] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.569208] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.570766] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
```

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[ 0.572200] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.573330] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.574709] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
[ 0.576147] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.577340] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.578830] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.580187] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.581272] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.582834] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.584169] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.585230] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.586663] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
[ 0.588123] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.589152] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.590659] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.592028] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.593087] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.594755] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.596112] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.597225] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.598720] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.600070] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.601085] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
```



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[ 0.602753] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.604189] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.605289] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.606735] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.608157] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.609197] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.610630] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.611937] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.613180] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.614657] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.616016] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.617108] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
[ 0.618666] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.620066] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.621155] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.622744] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.624131] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.625282] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.626838] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.628193] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.629258] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.630769] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.632300] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.633470] pci 0000:00:12.4: bridge window [mem
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0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.634997] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.636419] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.637570] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.639079] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.640505] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.641655] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.643159] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.644596] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.645627] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.647160] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.648665] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.649602] pci 0000:00:10.0: BAR 15: assigned [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.650703] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[ 0.651668] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.652763] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[ 0.653702] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.654770] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[ 0.655646] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.656691] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[ 0.657655] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.658757] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[ 0.659655] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.660686] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[ 0.661631] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.662785] pci 0000:00:10.7: BAR 14: assigned [mem
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0x10e00000-0x10ffffff]
[ 0.663696] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e0000-0x8000ffffff 64bit pref]
[ 0.664749] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[ 0.665741] pci 0000:00:11.0: BAR 15: assigned [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.666851] pci 0000:00:11.1: BAR 14: assigned [mem
0x11200000-0x113ffffff]
[ 0.667834] pci 0000:00:11.1: BAR 15: assigned [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.668933] pci 0000:00:11.2: BAR 14: assigned [mem
0x11400000-0x115ffffff]
[ 0.669854] pci 0000:00:11.2: BAR 15: assigned [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.670921] pci 0000:00:11.3: BAR 14: assigned [mem
0x11600000-0x117ffffff]
[ 0.671813] pci 0000:00:11.3: BAR 15: assigned [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.672834] pci 0000:00:11.4: BAR 14: assigned [mem
0x11800000-0x119ffffff]
[ 0.673743] pci 0000:00:11.4: BAR 15: assigned [mem
0x800180000-0x80019ffffff 64bit pref]
[ 0.674770] pci 0000:00:11.5: BAR 14: assigned [mem
0x11a00000-0x11bffffff]
[ 0.675704] pci 0000:00:11.5: BAR 15: assigned [mem
0x8001a0000-0x8001bffffff 64bit pref]
[ 0.676727] pci 0000:00:11.6: BAR 14: assigned [mem
0x11c00000-0x11dffffff]
[ 0.677641] pci 0000:00:11.6: BAR 15: assigned [mem
0x8001c0000-0x8001dffffff 64bit pref]
[ 0.678687] pci 0000:00:11.7: BAR 14: assigned [mem
0x11e00000-0x11ffffff]
[ 0.679585] pci 0000:00:11.7: BAR 15: assigned [mem
0x8001e0000-0x8001ffffff 64bit pref]
[ 0.680647] pci 0000:00:12.0: BAR 14: assigned [mem
0x12000000-0x121ffffff]
[ 0.681567] pci 0000:00:12.0: BAR 15: assigned [mem
0x800200000-0x80021ffffff 64bit pref]
[ 0.682634] pci 0000:00:12.1: BAR 14: assigned [mem
0x12200000-0x123ffffff]
[ 0.683516] pci 0000:00:12.1: BAR 15: assigned [mem
0x800220000-0x80023ffffff 64bit pref]
[ 0.684567] pci 0000:00:12.2: BAR 14: assigned [mem
0x12400000-0x125ffffff]
[ 0.685548] pci 0000:00:12.2: BAR 15: assigned [mem
0x800240000-0x80025ffffff 64bit pref]
[ 0.686724] pci 0000:00:12.3: BAR 14: assigned [mem
0x12600000-0x127ffffff]
[ 0.687649] pci 0000:00:12.3: BAR 15: assigned [mem
0x800260000-0x80027ffffff 64bit pref]
[ 0.688735] pci 0000:00:12.4: BAR 14: assigned [mem
0x12800000-0x129ffffff]
[ 0.689691] pci 0000:00:12.4: BAR 15: assigned [mem
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0x8002800000-0x80029ffffff 64bit pref]
[ 0.690781] pci 0000:00:12.5: BAR 14: assigned [mem
0x12a00000-0x12bffffff]
[ 0.691662] pci 0000:00:12.5: BAR 15: assigned [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.692762] pci 0000:00:12.6: BAR 14: assigned [mem
0x12c00000-0x12dffffff]
[ 0.693714] pci 0000:00:12.6: BAR 15: assigned [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 0.694777] pci 0000:00:12.7: BAR 14: assigned [mem
0x12e00000-0x12ffffff]
[ 0.695659] pci 0000:00:12.7: BAR 15: assigned [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 0.696704] pci 0000:00:01.0: BAR 4: assigned [mem
0x8003000000-0x8003003fff 64bit pref]
[ 0.698728] pci 0000:00:02.0: BAR 0: assigned [mem
0x8003004000-0x8003007fff 64bit]
[ 0.699807] pci 0000:00:03.0: BAR 4: assigned [mem
0x8003008000-0x800300bfff 64bit pref]
[ 0.700993] pci 0000:00:01.0: BAR 1: assigned [mem
0x13000000-0x13000fff]
[ 0.702264] pci 0000:00:03.0: BAR 1: assigned [mem
0x13001000-0x13001fff]
[ 0.703177] pci 0000:00:10.0: BAR 0: assigned [mem
0x13002000-0x13002fff]
[ 0.704391] pci 0000:00:10.0: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.705356] pci 0000:00:10.1: BAR 0: assigned [mem
0x13003000-0x13003fff]
[ 0.706670] pci 0000:00:10.1: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.707546] pci 0000:00:10.2: BAR 0: assigned [mem
0x13004000-0x13004fff]
[ 0.708804] pci 0000:00:10.2: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.709705] pci 0000:00:10.3: BAR 0: assigned [mem
0x13005000-0x13005fff]
[ 0.711061] pci 0000:00:10.3: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.711882] pci 0000:00:10.4: BAR 0: assigned [mem
0x13006000-0x13006fff]
[ 0.713091] pci 0000:00:10.4: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.713925] pci 0000:00:10.5: BAR 0: assigned [mem
0x13007000-0x13007fff]
[ 0.715250] pci 0000:00:10.5: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.716087] pci 0000:00:10.6: BAR 0: assigned [mem
0x13008000-0x13008fff]
[ 0.717395] pci 0000:00:10.6: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.718208] pci 0000:00:10.7: BAR 0: assigned [mem
0x13009000-0x13009fff]
[ 0.720266] pci 0000:00:10.7: BAR 13: assigned [io
```

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0x8000-0x8fff]
[ 0.721124] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.722362] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.723216] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
[ 0.724464] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xafff]
[ 0.725406] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.726581] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.727402] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.728636] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.729480] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.730710] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.731584] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 0.732872] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 0.733773] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.735048] pci 0000:00:11.6: BAR 13: assigned [io
0xf000-0xffff]
[ 0.735922] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.737215] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.738113] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.739015] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.740853] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.741769] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.742650] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.743910] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.744720] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.745710] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.746893] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.747719] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 0.748579] pci 0000:00:12.3: BAR 0: assigned [mem
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0x13015000-0x13015fff]
[0.749881] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[0.750723] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[0.751638] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[0.752946] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[0.753805] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[0.754738] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[0.756032] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[0.756885] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[0.757803] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[0.759095] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[0.759992] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[0.760915] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[0.762227] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[0.763066] pci 0000:00:12.7: BAR 13: failed to assign [io size
0x1000]
[0.764009] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[0.764813] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[0.765649] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[0.766428] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[0.767205] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[0.767988] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[0.768789] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[0.769596] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[0.770954] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[0.771785] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[0.772604] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[0.773443] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[0.774228] pci 0000:00:11.3: BAR 13: assigned [io

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0xd000-0xdfff]
[ 0.775026] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.775824] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.776630] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 0.777454] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.778280] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.779081] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.779927] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.780742] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.781594] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.782397] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.783260] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 0.784071] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.784936] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.785768] pci 0000:00:10.3: BAR 13: failed to assign [io size
0x1000]
[ 0.786779] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.787598] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.788457] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.789260] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.790108] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.790937] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.791829] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.793340] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 0.794675] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.796623] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.798045] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 0.799407] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.801341] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.802726] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105ffffff]
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[ 0.805112] pci 0000:00:10.2: bridge window [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.807079] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.808410] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 0.809815] pci 0000:00:10.3: bridge window [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.811756] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.813123] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 0.815325] pci 0000:00:10.4: bridge window [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.817342] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.818694] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
[ 0.820060] pci 0000:00:10.5: bridge window [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.822015] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.823227] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dffffff]
[ 0.824643] pci 0000:00:10.6: bridge window [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.827508] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.828856] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10fffffff]
[ 0.830217] pci 0000:00:10.7: bridge window [mem
0x8000e00000-0x8000fffffff 64bit pref]
[ 0.832152] pci 0000:00:11.0: PCI bridge to [bus 09]
[ 0.833508] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.834822] pci 0000:00:11.0: bridge window [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.837601] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.838245] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.839740] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.841223] pci 0000:00:11.1: bridge window [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.843178] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.843849] pci 0000:00:11.2: bridge window [io 0xe000-0xffff]
[ 0.845364] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.847409] pci 0000:00:11.2: bridge window [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.849345] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.850062] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.851509] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.852924] pci 0000:00:11.3: bridge window [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.854939] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.855639] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.857162] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119ffffff]
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[ 0.859375] pci 0000:00:11.4: bridge window [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.861122] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.861836] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.863382] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.864706] pci 0000:00:11.5: bridge window [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.866687] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.867466] pci 0000:00:11.6: bridge window [io 0xa000-0xaaff]
[ 0.869705] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dffffff]
[ 0.871128] pci 0000:00:11.6: bridge window [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.873177] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.873868] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.875284] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11fffffff]
[ 0.876658] pci 0000:00:11.7: bridge window [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.878563] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.879950] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 0.881539] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121ffffff]
[ 0.882915] pci 0000:00:12.0: bridge window [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.884912] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.885623] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
[ 0.887123] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123ffffff]
[ 0.888515] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.890487] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.891151] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.892585] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125ffffff]
[ 0.893862] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.895766] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.896427] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.897931] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127ffffff]
[ 0.899321] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.902491] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.903165] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.904641] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129ffffff]
[ 0.906012] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.907954] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.908629] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.910076] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bffffff]
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[ 0.912137] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.914058] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 0.914733] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 0.916216] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dfffffff]
[ 0.917589] pci 0000:00:12.6: bridge window [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.919515] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 0.921316] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 0.923423] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 0.924084] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 0.925602] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12fffffff]
[ 0.926983] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.928919] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 0.929785] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efefffff window]
[ 0.930661] pci_bus 0000:00: resource 6 [mem
0x8000000000-0xfffffffffff window]
[ 0.931666] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 0.932451] pci_bus 0000:01: resource 2 [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.933427] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 0.934261] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.935196] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 0.936013] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.937006] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 0.937798] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.938757] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 0.939597] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.940555] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 0.941350] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.942364] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 0.943222] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.944227] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10fffffff]
```

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[ 0.945090] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 0.946132] pci_bus 0000:09: resource 1 [mem
0x110000000-0x111ffffff]
[ 0.946991] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.948040] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 0.948721] pci_bus 0000:0a: resource 1 [mem
0x112000000-0x113ffffff]
[ 0.949616] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.950602] pci_bus 0000:0b: resource 0 [io 0xe000-0xffff]
[ 0.951354] pci_bus 0000:0b: resource 1 [mem
0x114000000-0x115ffffff]
[ 0.952205] pci_bus 0000:0b: resource 2 [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.953212] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 0.953964] pci_bus 0000:0c: resource 1 [mem
0x116000000-0x117ffffff]
[ 0.954807] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.955844] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 0.956598] pci_bus 0000:0d: resource 1 [mem
0x118000000-0x119ffffff]
[ 0.957466] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.958476] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 0.959246] pci_bus 0000:0e: resource 1 [mem
0x11a000000-0x11bffffff]
[ 0.960084] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.961139] pci_bus 0000:0f: resource 0 [io 0xa000-0xafff]
[ 0.961867] pci_bus 0000:0f: resource 1 [mem
0x11c000000-0x11dffffff]
[ 0.962652] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.963675] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 0.964192] pci_bus 0000:10: resource 1 [mem
0x11e000000-0x11ffffff]
[ 0.965212] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001ffffff 64bit pref]
[ 0.966229] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 0.966961] pci_bus 0000:11: resource 1 [mem
0x120000000-0x121ffffff]
[ 0.967783] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.968768] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 0.969576] pci_bus 0000:12: resource 1 [mem
0x122000000-0x123ffffff]
[ 0.970418] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.971441] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 0.972147] pci_bus 0000:13: resource 1 [mem
0x124000000-0x125ffffff]
```

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[ 0.972992] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.973944] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 0.974639] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127ffffff]
[ 0.975464] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.976455] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 0.977193] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129ffffff]
[ 0.978024] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.979055] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 0.979794] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bffffff]
[ 0.980586] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.981610] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 0.982356] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dffffff]
[ 0.983008] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 0.984617] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 0.985401] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12ffffff]
[ 0.986261] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.987488] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
[ 0.988352] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 0.989220] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 0.990071] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 0.991239] iommu: Default domain type: Translated
[ 0.991985] iommu: DMA domain TLB invalidation policy: strict
mode
[ 0.993817] SCSI subsystem initialized
[ 0.994711] vgaarb: loaded
[ 0.995689] ACPI: bus type USB registered
[ 0.996450] usbcore: registered new interface driver usbfs
[ 0.997236] usbcore: registered new interface driver hub
[ 0.997915] usbcore: registered new device driver usb
[ 0.998612] pps_core: LinuxPPS API ver. 1 registered
[ 0.999308] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 1.000550] PTP clock support registered
[ 1.001168] EDAC MC: Ver: 3.0.0
[ 1.002442] Registered efivars operations
[ 1.004751] NetLabel: Initializing
[ 1.005264] NetLabel: domain hash size = 128
[ 1.005966] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 1.006711] NetLabel: unlabeled traffic allowed by default
[ 1.007853] clocksource: Switched to clocksource arch_sys_counter
[ 1.017799] VFS: Disk quotas dquot_6.6.0
[ 1.018352] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)

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```
[ 1.019285] AppArmor: AppArmor Filesystem Enabled
[ 1.019871] pnp: PnP ACPI init
[ 1.020375] system 00:00: [mem 0x4010000000-0x401fffffff window]
could not be reserved
[ 1.021432] pnp: PnP ACPI: found 1 devices
[ 1.023476] NET: Registered PF_INET protocol family
[ 1.024612] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.027968] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.029242] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.030356] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.032035] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.033224] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.034512] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.035600] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.036769] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.038001] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.039040] NET: Registered PF_XDP protocol family
[ 1.040027] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.041503] PCI: CLS 0 bytes, default 64
[ 1.041949] Trying to unpack rootfs image as initramfs...
[ 1.044282] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.045179] kvm [1]: HYP mode not available
[ 1.045730] Initialise system trusted keyrings
[ 1.046133] Key type blacklist registered
[ 1.046979] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.052580] zbud: loaded
[ 1.054882] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.059128] fuse: init (API version 7.34)
[ 1.061948] integrity: Platform Keyring initialized
[ 1.073440] Key type asymmetric registered
[ 1.076066] Asymmetric key parser 'x509' registered
[ 1.079096] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.083935] io scheduler mq-deadline registered
[ 1.087636] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.092431] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.096177] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.099664] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.108204] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.110421] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.112090] pcieport 0000:00:10.1: AER: enabled with IRQ 52
```

[1.113253] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.121910] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[1.124040] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[1.128037] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[1.130670] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.139489] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[1.141404] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[1.145355] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[1.147466] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.157384] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[1.161185] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[1.162647] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[1.166051] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.168809] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[1.171246] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[1.172491] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[1.173486] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.177433] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[1.178496] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[1.178851] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[1.180791] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.183181] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[1.185930] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[1.188843] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[1.189933] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.194027] ACPI: _SB_.PCI0.GSI1: Enabled at IRQ 36
[1.196215] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[1.199563] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[1.200215] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[1.204529] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.206750] pcieport 0000:00:11.1: enabling device (0002 -> 0003)
[1.208927] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[1.209821] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[1.210792] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[1.211616] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.213900] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up

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[ 1.214572] pcieport 0000:00:11.2: enabling device (0002 -> 0003)
[ 1.217678] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[ 1.219060] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[ 1.219883] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.222267] pcieport 0000:00:11.3: enabling device (0002 -> 0003)
[ 1.224342] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.225233] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[ 1.226416] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.227222] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.229373] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.230244] pcieport 0000:00:11.4: enabling device (0002 -> 0003)
[ 1.232722] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[ 1.233768] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[ 1.234540] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.237674] pcieport 0000:00:11.5: enabling device (0002 -> 0003)
[ 1.239681] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[ 1.240639] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[ 1.241274] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[ 1.242455] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.244608] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[ 1.245888] pcieport 0000:00:11.6: enabling device (0002 -> 0003)
[ 1.250106] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[ 1.253378] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[ 1.256479] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.262643] pcieport 0000:00:11.7: enabling device (0002 -> 0003)
[ 1.266955] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[ 1.269731] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[ 1.270506] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[ 1.273856] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.274631] Freeing initrd memory: 29520K
[ 1.276679] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[ 1.277949] ACPI: \_SB_.PCI0.GSI2: Enabled at IRQ 37
[ 1.280101] pcieport 0000:00:12.0: enabling device (0002 -> 0003)
[ 1.284524] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[ 1.288617] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[ 1.291448] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.298825] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[ 1.299994] pcieport 0000:00:12.1: enabling device (0002 -> 0003)
[ 1.304444] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[ 1.307737] pcieport 0000:00:12.1: AER: enabled with IRQ 68
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[ 1.310523] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.317462] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[ 1.318970] pcieport 0000:00:12.2: enabling device (0002 -> 0003)
[ 1.323439] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[ 1.325462] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[ 1.326946] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.331401] pcieport 0000:00:12.3: enabling device (0002 -> 0003)
[ 1.333557] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[ 1.334503] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[ 1.335426] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[ 1.336232] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.338109] pcieport 0000:00:12.4: enabling device (0002 -> 0003)
[ 1.339946] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[ 1.340477] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[ 1.340653] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[ 1.345657] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.348146] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.350146] pcieport 0000:00:12.5: enabling device (0002 -> 0003)
[ 1.353103] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.355031] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[ 1.356750] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.360631] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.362066] pcieport 0000:00:12.6: enabling device (0002 -> 0003)
[ 1.364267] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.365313] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.366129] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.370642] pcieport 0000:00:12.7: enabling device (0002 -> 0003)
[ 1.373564] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.375491] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.376493] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.377082] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.378949] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.384004] input: Power Button as /devices/LNXSYSTM:00/
LNXXSYBUS:00/PNP0C0C:00/input/input0
[ 1.389803] ACPI: button: Power Button [PWRB]
[ 1.395577] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.398957] virtio-pci 0000:00:03.0: enabling device (0000 ->
0002)
[ 1.405861] Serial: 8250/16550 driver, 32 ports, IRQ sharing
```



```
enabled
[ 1.408349] msm_serial: driver initialized
[ 1.409808] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.412319] loop: module loaded
[ 1.413057] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.414524] tun: Universal TUN/TAP device driver, 1.6
[ 1.415633] PPP generic driver version 2.4.2
[ 1.416948] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.418012] ehci-pci: EHCI PCI platform driver
[ 1.418602] ehci-orion: EHCI orion driver
[ 1.419134] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.420141] ohci-pci: OHCI PCI platform driver
[ 1.420733] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.421883] mousedev: PS/2 mouse device common for all mice
[ 1.423188] rtc-efi rtc-efi.0: registered as rtc0
[ 1.423907] rtc-efi rtc-efi.0: setting system clock to
2022-11-25T04:19:57 UTC (1669349997)
[ 1.425044] i2c_dev: i2c /dev entries driver
[ 1.425892] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.427653] device-mapper: uevent: version 1.0.3
[ 1.428510] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.431463] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.433970] drop_monitor: Initializing network drop monitor
service
[ 1.436751] NET: Registered PF_INET6 protocol family
[ 1.458088] Segment Routing with IPv6
[ 1.460626] In-situ OAM (IOAM) with IPv6
[ 1.463159] NET: Registered PF_PACKET protocol family
[ 1.466536] Key type dns_resolver registered
[ 1.469503] registered taskstats version 1
[ 1.472495] Loading compiled-in X.509 certificates
[ 1.474227] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.476728] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.479116] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.480925] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.482156] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.484312] zswap: loaded using pool lzo/zbud
[ 1.485560] Key type ._fscrypt registered
[ 1.486335] Key type .fscrypt registered
[ 1.487040] Key type fscrypt-provisioning registered
[ 1.505262] cryptd: max_cpu_glen set to 1000
[ 1.516457] Key type encrypted registered
```

```
[ 1.519212] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.522736] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.526163] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.528653] ima: No TPM chip found, activating TPM-bypass!
[ 1.529805] Loading compiled-in module X.509 certificates
[ 1.531614] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.534765] ima: Allocated hash algorithm: sha1
[ 1.537821] ima: No architecture policies found
[ 1.540769] evm: Initialising EVM extended attributes:
[ 1.543953] evm: security.selinux
[ 1.545771] evm: security.SMACK64
[ 1.546463] evm: security.SMACK64EXEC
[ 1.547172] evm: security.SMACK64TRANSMUTE
[ 1.548429] evm: security.SMACK64MMAP
[ 1.549209] evm: security.apparmor
[ 1.550010] evm: security.ima
[ 1.550650] evm: security.capability
[ 1.551511] evm: HMAC attrs: 0x1
[ 1.554987] Freeing unused kernel memory: 9536K
[ 1.624531] Checked W+X mappings: passed, no W+X pages found
[ 1.625301] Run /init as init process
[ 1.816648] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.817322] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.818733] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 1.830471] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.831130] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.832100] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.833030] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.834245] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.835678] usb usb1: Product: xHCI Host Controller
[ 1.836655] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.837968] usb usb1: SerialNumber: 0000:00:02.0
[ 1.842531] hub 1-0:1.0: USB hub found
[ 1.843910] hub 1-0:1.0: 4 ports detected
[ 1.859732] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.863714] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.866036] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.869085] usb usb2: Product: xHCI Host Controller
[ 1.872063] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.874055] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
```

```
[ 1.874241] usb usb2: SerialNumber: 0000:00:02.0
[ 1.880103] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.881407] scsi host0: Virtio SCSI HBA
[ 1.890145] [drm] number of scanouts: 1
[ 1.890884] [drm] number of cap sets: 0
[ 1.891067] scsi 0:0:0:1: Direct-Access          ORACLE   BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.895087] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 1.910245] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 1.910256] Console: switching to colour frame buffer device
128x48
[ 1.915804] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 1.920431] hub 2-0:1.0: USB hub found
[ 1.921398] hub 2-0:1.0: 4 ports detected
[ 1.927074] sd 0:0:0:1: Power-on or device reset occurred
[ 1.927129] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.932066] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 1.933872] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.936288] sd 0:0:0:1: [sda] Write Protect is off
[ 1.937887] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.940409] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.963018] sda: sda1 sda15
[ 1.985512] sd 0:0:0:1: [sda] Attached SCSI disk
[ 1.996700] virtio_net virtio1 enp0s3: renamed from eth0
[ 2.179896] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.328408] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.330964] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 2.333079] usb 1-1: Product: QEMU USB Tablet
[ 2.334417] usb 1-1: Manufacturer: QEMU
[ 2.335743] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 2.347879] raid6: neonx8 gen() 13002 MB/s
[ 2.415870] raid6: neonx8 xor() 10729 MB/s
[ 2.463876] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 2.483867] raid6: neonx4 gen() 13260 MB/s
[ 2.551875] raid6: neonx4 xor() 11219 MB/s
[ 2.612468] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.616012] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 2.618772] usb 1-2: Product: QEMU USB Keyboard
[ 2.621072] raid6: neonx2 gen() 12650 MB/s
[ 2.623029] usb 1-2: Manufacturer: QEMU
[ 2.624890] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 2.679950] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
```

```
found
[ 2.687877] raid6: neonx2 xor() 9967 MB/s
[ 2.751892] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
[ 2.755870] raid6: neonx1 gen() 10438 MB/s
[ 2.755910] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 2.763943] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 2.791915] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 2.791935] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 2.811923] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 2.819974] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 2.819984] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 2.823886] raid6: neonx1 xor() 8250 MB/s
[ 2.843943] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 2.847980] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 2.875911] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 2.879936] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
found
[ 2.891872] raid6: int64x8 gen() 6200 MB/s
[ 2.900467] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.903583] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 2.903916] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 2.906246] usb 1-3: Product: QEMU USB Mouse
[ 2.906249] usb 1-3: Manufacturer: QEMU
[ 2.906250] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 2.920762] hid: raw HID events driver (C) Jiri Kosina
[ 2.927108] usbcore: registered new interface driver usbhid
[ 2.928668] usbhid: USB HID core driver
[ 2.931907] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 2.935942] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 2.939150] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 2.943205] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 2.959877] raid6: int64x8 xor() 3093 MB/s
[ 2.971910] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
```

```
[ 2.971936] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 3.004062] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 3.008011] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 3.009152] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 3.012610] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 3.027878] raid6: int64x4 gen() 7022 MB/s
[ 3.095871] raid6: int64x4 xor() 3856 MB/s
[ 3.163872] raid6: int64x2 gen() 6170 MB/s
[ 3.231877] raid6: int64x2 xor() 3325 MB/s
[ 3.299870] raid6: int64x1 gen() 5062 MB/s
[ 3.367875] raid6: int64x1 xor() 2651 MB/s
[ 3.368909] raid6: using algorithm neonx4 gen() 13260 MB/s
[ 3.370049] raid6: .... xor() 11219 MB/s, rmw enabled
[ 3.371126] raid6: using neon recovery algorithm
[ 3.374612] xor: measuring software checksum speed
[ 3.378288] 8regs : 17304 MB/sec
[ 3.381335] 32regs : 20749 MB/sec
[ 3.384436] arm64_neon : 25915 MB/sec
[ 3.387061] xor: using function: arm64_neon (25915 MB/sec)
[ 3.391308] async_tx: api initialized (async)
[ 3.448099] No iBFT detected.
[ 3.568730] Loading iSCSI transport class v2.0-870.
[ 3.576684] iscsi: registered transport (tcp)
[ 3.671404] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 3.786710] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 3.832142] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 3.891957] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 3.923927] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 3.983894] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 4.040074] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 4.067932] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 4.080026] systemd[1]: Inserted module 'autofs4'
[ 4.117705] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 4.132854] systemd[1]: Detected virtualization kvm.
```

```
[ 4.136074] systemd[1]: Detected architecture arm64.
[ 4.142682] systemd[1]: Hostname set to <ubuntu>.
[ 4.279101] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 4.534979] systemd[1]: Queued start job for default target
Graphical Interface.
[ 4.538776] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.569043] systemd[1]: Created slice Slice /system/modprobe.
[ 4.572673] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.575326] systemd[1]: Created slice Slice /system/serial-getty.
[ 4.578039] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 4.580248] systemd[1]: Created slice User and Session Slice.
[ 4.582438] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 4.585375] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 4.592328] systemd[1]: Reached target Slice Units.
[ 4.595588] systemd[1]: Reached target Swaps.
[ 4.598000] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 4.600406] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 4.602815] systemd[1]: Listening on LVM2 poll daemon socket.
[ 4.616340] systemd[1]: Listening on multipathd control socket.
[ 4.626140] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 4.634494] systemd[1]: Listening on Syslog Socket.
[ 4.636655] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 4.640156] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 4.643701] systemd[1]: Listening on Journal Audit Socket.
[ 4.649666] systemd[1]: Listening on Journal Socket (/dev/log).
[ 4.652011] systemd[1]: Listening on Journal Socket.
[ 4.655389] systemd[1]: Listening on Network Service Netlink
Socket.
[ 4.658120] systemd[1]: Listening on udev Control Socket.
[ 4.663369] systemd[1]: Listening on udev Kernel Socket.
[ 4.688919] systemd[1]: Mounting Huge Pages File System...
[ 4.692340] systemd[1]: Mounting POSIX Message Queue File
System...
[ 4.699177] systemd[1]: Mounting Kernel Debug File System...
[ 4.706616] systemd[1]: Mounting Kernel Trace File System...
[ 4.710794] systemd[1]: Starting Journal Service...
[ 4.720391] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 4.723572] systemd[1]: Starting Set the console keyboard
layout...
[ 4.727580] systemd[1]: Starting Create List of Static Device
Nodes...
[ 4.739144] systemd[1]: Starting Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling...
```

```
[ 4.742823] systemd[1]: Condition check resulted in LXD - agent
being skipped.
[ 4.746184] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 4.756138] systemd[1]: Starting Load Kernel Module configfs...
[ 4.760944] systemd[1]: Starting Load Kernel Module drm...
[ 4.772840] systemd[1]: Starting Load Kernel Module efi_pstore...
[ 4.783577] pstore: Using crash dump compression: deflate
[ 4.783582] pstore: Registered efi as persistent store backend
[ 4.794856] systemd[1]: Starting Load Kernel Module fuse...
[ 4.808214] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 4.825679] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 4.830632] systemd[1]: Starting Load Kernel Module ramoops...
[ 4.842912] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 4.848037] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 4.856598] systemd[1]: Starting Load Kernel Modules...
[ 4.870067] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 4.874598] systemd[1]: Starting Coldplug All udev Devices...
[ 4.881532] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 4.889884] systemd[1]: Mounted Huge Pages File System.
[ 4.892681] systemd[1]: Mounted POSIX Message Queue File System.
[ 4.901438] systemd[1]: Mounted Kernel Debug File System.
[ 4.903706] systemd[1]: Mounted Kernel Trace File System.
[ 4.907727] systemd[1]: Finished Set the console keyboard layout.
[ 4.912012] systemd[1]: Finished Create List of Static Device
Nodes.
[ 4.915302] systemd[1]: Finished Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling.
[ 4.926852] systemd[1]: modprobe@chromeos_pstore.service:
Deactivated successfully.
[ 4.929431] systemd[1]: Finished Load Kernel Module
chromeos_pstore.
[ 4.932533] systemd[1]: modprobe@configfs.service: Deactivated
successfully.
[ 4.934909] systemd[1]: Finished Load Kernel Module configfs.
[ 4.944884] systemd[1]: modprobe@drm.service: Deactivated
successfully.
[ 4.947286] systemd[1]: Finished Load Kernel Module drm.
[ 4.949704] systemd[1]: Started Journal Service.
[ 5.003365] systemd-journald[514]: Received client request to
flush runtime journal.
[ 5.003440] alua: device handler registered
[ 5.019641] emc: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: curl http://localhost:3000/healthcheck

Password:
Login timed out after 60 seconds.

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: dissuade7-donut-untaken

Password:

Login incorrect
ubuntu login: ubuntu
Password:

Login incorrect
ubuntu login: ubuntu
Password:

Login incorrect
ubuntu login:
Login timed out after 60 seconds.

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: ubuntu

Password:

Login incorrect
ubuntu login:
Login timed out after 60 seconds.

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: sudo dissuade7-donut-untaken
sudo curl http://localhost:3000/healthcheck

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: sudo su

Password:

Login incorrect
ubuntu login: ubuntu
Password:

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1022-oracle aarch64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>
 * Support: <https://ubuntu.com/advantage>

System information as of Fri Nov 25 05:00:15 UTC 2022

```
System load: 0.10986328125      Users logged in:
1
Usage of /: 1.9% of 189.75GB    IPv4 address for br-56bd98e954ed:
172.18.0.1
Memory usage: 9%              IPv4 address for docker0:
172.17.0.1
Swap usage: 0%                IPv4 address for enp0s3:
10.0.0.113
Processes: 239
```

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment.

<https://ubuntu.com/engage/secure-kubernetes-at-the-edge>

0 updates can be applied immediately.

```
Last login: Fri Nov 25 04:51:51 UTC 2022 from 151.210.160.70 on pts/2
[?2004hubuntu@ubuntu:~$ [7mcurl http://localhost:3000/healthcheck[27m
```

```
[7mOK[27m[A[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[Curl http://localhost:3000/healthcheck
```

```
[1P0
[K[K[A[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[C[K[Kck
[?2004\
```

```
curl: (7) Failed to connect to localhost port 3000 after 0 ms: Connection refused
[?2004hubuntu@ubuntu:~$ [3274.794471] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
```

```
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
```

```
[ 0.000000] Booting Linux on physical CPU 0x000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (buildd@bos02-arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC 2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
```

```
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa67018 ACPI 2.0=0x6385c0018 MOKvar=0x63aa69000 MEMRESERVE=0x638b41798
```

```
[ 0.000000] secureboot: Secure boot disabled
```

```
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x00000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x00000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x00000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x00000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x00000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x00000006385CD898 000060 (v02 BOCHS
BXPCGTDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x00000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x00000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x00000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x00000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x90000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000100000000-0x000000063fffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x00000006386affff]
[ 0.000000] node 0: [mem
0x00000006386b0000-0x0000000638b3ffff]
[ 0.000000] node 0: [mem
0x0000000638b40000-0x000000063be1ffff]
[ 0.000000] node 0: [mem
0x000000063be20000-0x000000063beaffff]
[ 0.000000] node 0: [mem
0x000000063beb0000-0x000000063bebffff]
[ 0.000000] node 0: [mem
0x000000063bec0000-0x000000063bfdffff]
[ 0.000000] node 0: [mem
0x000000063bfe0000-0x000000063fffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
```

```
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_eh=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irq: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
```

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[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000976] Console: colour dummy device 80x25
[ 0.001065] printk: console [tty1] enabled
[ 0.001244] ACPI: Core revision 20210730
[ 0.001448] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001452] pid_max: default: 32768 minimum: 301
[ 0.001651] LSM: Security Framework initializing
[ 0.001659] landlock: Up and running.
[ 0.001660] Yama: becoming mindful.
[ 0.002298] AppArmor: AppArmor initialized
[ 0.003131] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.003181] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006674] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.006832] rcu: Hierarchical SRCU implementation.
[ 0.007043] Platform MSI: ITS@0x8080000 domain created
[ 0.007221] PCI/MSI: ITS@0x8080000 domain created
[ 0.007380] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007543] Remapping and enabling EFI services.
[ 0.008184] smp: Bringing up secondary CPUs ...
[ 0.022510] Detected PIPT I-cache on CPU1
[ 0.022532] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.022594] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
[ 0.022607] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.022626] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.036898] Detected PIPT I-cache on CPU2
[ 0.036921] GICv3: CPU2: found redistributor 2 region
```

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0:0x00000000080e0000
[ 0.036983] GICv3: CPU2: using allocated LPI pending table
@0x0000000100220000
[ 0.036997] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.037014] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.051632] Detected PIPT I-cache on CPU3
[ 0.051656] GICv3: CPU3: found redistributor 3 region
0:0x0000000008100000
[ 0.051714] GICv3: CPU3: using allocated LPI pending table
@0x0000000100230000
[ 0.051728] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.051745] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.051830] smp: Brought up 1 node, 4 CPUs
[ 0.051855] SMP: Total of 4 processors activated.
[ 0.051857] CPU features: detected: 32-bit EL0 Support
[ 0.051859] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.051861] CPU features: detected: Common not Private
translations
[ 0.051863] CPU features: detected: CRC32 instructions
[ 0.051864] CPU features: detected: Data cache clean to Point of
Persistence
[ 0.051867] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.051869] CPU features: detected: LSE atomic instructions
[ 0.051871] CPU features: detected: Privileged Access Never
[ 0.051872] CPU features: detected: RAS Extension Support
[ 0.052032] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.154470] CPU: All CPU(s) started at EL1
[ 0.154512] alternatives: patching kernel code
[ 0.156538] devtmpfs: initialized
[ 0.158369] Registered cp15_barrier emulation handler
[ 0.158388] Registered setend emulation handler
[ 0.158391] KASLR disabled due to lack of seed
[ 0.158426] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.158437] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.158906] pinctrl core: initialized pinctrl subsystem
[ 0.160142] SMBIOS 3.0.0 present.
[ 0.160146] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.161264] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.163381] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.163616] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.164125] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.164138] audit: initializing netlink subsys (disabled)
[ 0.164201] audit: type=2000 audit(0.160:1): state=initialized
```

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audit_enabled=0 res=1
[ 0.164972] thermal_sys: Registered thermal governor 'fair_share'
[ 0.164974] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.164978] thermal_sys: Registered thermal governor 'step_wise'
[ 0.164979] thermal_sys: Registered thermal governor 'user_space'
[ 0.164981] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.164993] cpuidle: using governor ladder
[ 0.164998] cpuidle: using governor menu
[ 0.165026] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.165095] ASID allocator initialised with 32768 entries
[ 0.165314] ACPI: bus type PCI registered
[ 0.165470] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.165689] Serial: AMBA PL011 UART driver
[ 0.167401] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.167405] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.167407] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.167409] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.169686] fbcon: Taking over console
[ 0.169697] ACPI: Added _OSI(Module Device)
[ 0.169699] ACPI: Added _OSI(Processor Device)
[ 0.169701] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.169702] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.169704] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.169706] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.169708] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.170285] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.170477] ACPI: Interpreter enabled
[ 0.170479] ACPI: Using GIC for interrupt routing
[ 0.170486] ACPI: MCFG table detected, 1 entries
[ 0.172274] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.438040] printk: console [ttyAMA0] enabled
[ 0.441174] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.442801] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.444484] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.445509] acpi PNP0A08:00: _OSC: OS now controls [PCIeHotplug
PME AER PCIeCapability]
[ 0.446634] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401fffffff] reserved by PNP0C02:00
[ 0.448546] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401fffffff] for [bus 00-ff]
[ 0.450351] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
```

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[ 0.452278] PCI host bridge to bus 0000:00
[ 0.452880] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.453627] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.454557] pci_bus 0000:00: root bus resource [mem
0x10000000-0x3efeffff window]
[ 0.455566] pci_bus 0000:00: root bus resource [mem
0x800000000-0xffffffff window]
[ 0.456620] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.457657] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.460101] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.463094] pci 0000:00:01.0: reg 0x20: [mem
0x803000000-0x8030003fff 64bit pref]
[ 0.465097] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.465961] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.467175] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.468026] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.468826] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.470945] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.473027] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.476286] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.478244] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.482361] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.484392] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.487464] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.489488] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.493787] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.495761] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.498903] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.500916] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.505155] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[ 0.507069] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.510304] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.512259] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.516593] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.518574] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[ 0.521717] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.523673] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.527880] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.529775] pci 0000:00:11.2: reg 0x10: [mem
```

```
0x1300d000-0x1300dfff]
[ 0.532850] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.534758] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.538986] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.540934] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.544039] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.546013] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.550250] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.552124] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.555311] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.558181] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.561400] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.563395] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.566472] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.569411] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.572610] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.574558] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[ 0.577666] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[ 0.580634] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.583856] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.585786] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.588938] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.591879] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.595083] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.597036] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.600113] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.601873] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.618538] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.620674] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.623274] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.637498] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.638538] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.640135] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000fffff] to [bus 01] add_size 200000 add_align 100000
[ 0.641508] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
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[ 0.642589] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.644149] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.645591] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.646724] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.648334] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.649800] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.650912] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.652496] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.653939] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.655037] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.656570] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
[ 0.657903] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.659014] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.660626] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
[ 0.662071] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.663164] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.664621] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.666005] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.667021] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.668508] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.669823] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.670889] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.672345] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
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[ 0.673796] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.674920] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.676438] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.677876] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.678985] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.680547] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.681930] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.683021] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.684540] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.685966] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.687044] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
[ 0.688691] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.690076] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.691255] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.692867] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.694296] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.695386] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.696903] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.699044] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.700166] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.701690] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.703118] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.704236] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
```

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[ 0.705759] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.707181] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.708077] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.709701] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.711101] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.712193] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.713738] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.715116] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.716208] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.717748] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.719132] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.720229] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.721789] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.723060] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.724082] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.725632] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.727038] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.728132] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.729634] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.731046] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.732147] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.733668] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.735179] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.736127] pci 0000:00:10.0: BAR 15: assigned [mem
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0x8000000000-0x80001ffffff 64bit pref]
[0.737263] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[0.738207] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[0.739317] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[0.740200] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[0.741251] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[0.742162] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[0.743220] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[0.744136] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[0.745194] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[0.746021] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[0.747089] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[0.748038] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
[0.749192] pci 0000:00:10.7: BAR 14: assigned [mem
0x10e00000-0x10ffffff]
[0.750170] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e00000-0x8000ffffff 64bit pref]
[0.751318] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[0.752246] pci 0000:00:11.0: BAR 15: assigned [mem
0x8001000000-0x80011ffffff 64bit pref]
[0.753377] pci 0000:00:11.1: BAR 14: assigned [mem
0x11200000-0x113ffffff]
[0.754326] pci 0000:00:11.1: BAR 15: assigned [mem
0x8001200000-0x80013ffffff 64bit pref]
[0.755463] pci 0000:00:11.2: BAR 14: assigned [mem
0x11400000-0x115ffffff]
[0.756600] pci 0000:00:11.2: BAR 15: assigned [mem
0x8001400000-0x80015ffffff 64bit pref]
[0.757782] pci 0000:00:11.3: BAR 14: assigned [mem
0x11600000-0x117ffffff]
[0.758759] pci 0000:00:11.3: BAR 15: assigned [mem
0x8001600000-0x80017ffffff 64bit pref]
[0.759902] pci 0000:00:11.4: BAR 14: assigned [mem
0x11800000-0x119ffffff]
[0.760842] pci 0000:00:11.4: BAR 15: assigned [mem
0x8001800000-0x80019ffffff 64bit pref]
[0.761978] pci 0000:00:11.5: BAR 14: assigned [mem
0x11a00000-0x11bffffff]
[0.762881] pci 0000:00:11.5: BAR 15: assigned [mem
0x8001a00000-0x8001bffffff 64bit pref]
[0.763941] pci 0000:00:11.6: BAR 14: assigned [mem

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0x11c00000-0x11dfffffff]
[ 0.764847] pci 0000:00:11.6: BAR 15: assigned [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 0.765895] pci 0000:00:11.7: BAR 14: assigned [mem
0x11e00000-0x11fffffff]
[ 0.766825] pci 0000:00:11.7: BAR 15: assigned [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.767908] pci 0000:00:12.0: BAR 14: assigned [mem
0x12000000-0x121fffffff]
[ 0.768808] pci 0000:00:12.0: BAR 15: assigned [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 0.769885] pci 0000:00:12.1: BAR 14: assigned [mem
0x12200000-0x123fffffff]
[ 0.770777] pci 0000:00:12.1: BAR 15: assigned [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 0.771874] pci 0000:00:12.2: BAR 14: assigned [mem
0x12400000-0x125fffffff]
[ 0.772857] pci 0000:00:12.2: BAR 15: assigned [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 0.774014] pci 0000:00:12.3: BAR 14: assigned [mem
0x12600000-0x127fffffff]
[ 0.774990] pci 0000:00:12.3: BAR 15: assigned [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 0.776151] pci 0000:00:12.4: BAR 14: assigned [mem
0x12800000-0x129fffffff]
[ 0.776937] pci 0000:00:12.4: BAR 15: assigned [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 0.778106] pci 0000:00:12.5: BAR 14: assigned [mem
0x12a00000-0x12bfffffff]
[ 0.779027] pci 0000:00:12.5: BAR 15: assigned [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.780190] pci 0000:00:12.6: BAR 14: assigned [mem
0x12c00000-0x12dfffffff]
[ 0.781121] pci 0000:00:12.6: BAR 15: assigned [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.782233] pci 0000:00:12.7: BAR 14: assigned [mem
0x12e00000-0x12fffffff]
[ 0.783176] pci 0000:00:12.7: BAR 15: assigned [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.784323] pci 0000:00:01.0: BAR 4: assigned [mem
0x8003000000-0x8003003fff 64bit pref]
[ 0.786348] pci 0000:00:02.0: BAR 0: assigned [mem
0x8003004000-0x8003007fff 64bit]
[ 0.787436] pci 0000:00:03.0: BAR 4: assigned [mem
0x8003008000-0x800300bfff 64bit pref]
[ 0.788578] pci 0000:00:01.0: BAR 1: assigned [mem
0x13000000-0x13000fff]
[ 0.789886] pci 0000:00:03.0: BAR 1: assigned [mem
0x13001000-0x13001fff]
[ 0.790838] pci 0000:00:10.0: BAR 0: assigned [mem
0x13002000-0x13002fff]
[ 0.792181] pci 0000:00:10.0: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.793100] pci 0000:00:10.1: BAR 0: assigned [mem
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0x13003000-0x13003fff]
[ 0.794352] pci 0000:00:10.1: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.795206] pci 0000:00:10.2: BAR 0: assigned [mem
0x13004000-0x13004fff]
[ 0.796437] pci 0000:00:10.2: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.797327] pci 0000:00:10.3: BAR 0: assigned [mem
0x13005000-0x13005fff]
[ 0.798594] pci 0000:00:10.3: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.799477] pci 0000:00:10.4: BAR 0: assigned [mem
0x13006000-0x13006fff]
[ 0.800738] pci 0000:00:10.4: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.801571] pci 0000:00:10.5: BAR 0: assigned [mem
0x13007000-0x13007fff]
[ 0.802823] pci 0000:00:10.5: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.803694] pci 0000:00:10.6: BAR 0: assigned [mem
0x13008000-0x13008fff]
[ 0.804947] pci 0000:00:10.6: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.805818] pci 0000:00:10.7: BAR 0: assigned [mem
0x13009000-0x13009fff]
[ 0.807842] pci 0000:00:10.7: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.808722] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.809987] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.810893] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
[ 0.811970] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xafff]
[ 0.812804] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.814018] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.814865] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.816076] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.817117] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.818342] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.819222] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 0.820499] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 0.821326] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.822554] pci 0000:00:11.6: BAR 13: assigned [io
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0xf000-0xffff]
[ 0.823441] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.824684] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.825547] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.826441] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.828222] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.829075] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.829975] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.831300] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.832169] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.833077] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.834307] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.835041] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 0.835979] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 0.837257] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 0.838113] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 0.839028] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[ 0.840357] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 0.841235] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 0.842141] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 0.843451] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[ 0.844340] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 0.845212] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 0.846503] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 0.847396] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[ 0.848302] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 0.849619] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 0.850476] pci 0000:00:12.7: BAR 13: failed to assign [io size
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0x1000]
[ 0.851434] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.852275] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.853115] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.853824] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.854655] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.855554] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.856424] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.857797] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.858671] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.859499] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 0.860305] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.861131] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.861975] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.862789] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.863650] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.864488] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 0.865406] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.866270] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.867116] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.868513] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.869322] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.870235] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.871075] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.872055] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 0.872900] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.873778] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.874519] pci 0000:00:10.3: BAR 13: failed to assign [io size
```



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0x1000]
[ 0.875456] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.876254] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.877157] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.877958] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.878827] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.879711] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.880676] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.882081] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 0.883496] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.885485] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.886837] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 0.888226] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.890176] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.891538] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105ffffff]
[ 0.893678] pci 0000:00:10.2: bridge window [mem
0x800040000-0x80005ffffff 64bit pref]
[ 0.895521] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.896787] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 0.898195] pci 0000:00:10.3: bridge window [mem
0x800060000-0x80007ffffff 64bit pref]
[ 0.900157] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.901434] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 0.903464] pci 0000:00:10.4: bridge window [mem
0x800080000-0x80009ffffff 64bit pref]
[ 0.905751] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.907097] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
[ 0.908535] pci 0000:00:10.5: bridge window [mem
0x8000a0000-0x8000bffffff 64bit pref]
[ 0.910447] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.911753] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dffffff]
[ 0.913100] pci 0000:00:10.6: bridge window [mem
0x8000c0000-0x8000dffffff 64bit pref]
[ 0.915776] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.917065] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10ffffff]
[ 0.918375] pci 0000:00:10.7: bridge window [mem
0x8000e0000-0x8000ffffff 64bit pref]
[ 0.920325] pci 0000:00:11.0: PCI bridge to [bus 09]
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[ 0.921565] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.922897] pci 0000:00:11.0: bridge window [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.925485] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.926184] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.927626] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.928997] pci 0000:00:11.1: bridge window [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.930849] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.931583] pci 0000:00:11.2: bridge window [io 0xe000-0xffff]
[ 0.933019] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.934382] pci 0000:00:11.2: bridge window [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.936932] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.937622] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.939065] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.940436] pci 0000:00:11.3: bridge window [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.942282] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.942980] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.944424] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119ffffff]
[ 0.946408] pci 0000:00:11.4: bridge window [mem
0x800180000-0x80019ffffff 64bit pref]
[ 0.948372] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.949090] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.950550] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.951944] pci 0000:00:11.5: bridge window [mem
0x8001a0000-0x8001bffffff 64bit pref]
[ 0.953856] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.954567] pci 0000:00:11.6: bridge window [io 0xa000-0xffff]
[ 0.956609] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dffffff]
[ 0.958011] pci 0000:00:11.6: bridge window [mem
0x8001c0000-0x8001dffffff 64bit pref]
[ 0.959933] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.960617] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.962025] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11ffffff]
[ 0.963288] pci 0000:00:11.7: bridge window [mem
0x8001e0000-0x8001ffffff 64bit pref]
[ 0.965151] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.965853] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 0.967934] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121ffffff]
[ 0.969276] pci 0000:00:12.0: bridge window [mem
0x800200000-0x80021ffffff 64bit pref]
[ 0.971067] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.971806] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
```

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[ 0.973184] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123ffffff]
[ 0.974463] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.976355] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.977685] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.979206] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125ffffff]
[ 0.980618] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.982442] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.983188] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.984620] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127ffffff]
[ 0.985918] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.988336] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.989087] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.990568] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129ffffff]
[ 0.991906] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.993712] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.994426] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.995841] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bffffff]
[ 0.997130] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.999641] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 1.000329] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 1.001817] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dffffff]
[ 1.003240] pci 0000:00:12.6: bridge window [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 1.005079] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 1.006925] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 1.008218] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 1.009520] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 1.010976] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12ffffff]
[ 1.012353] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 1.014269] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 1.015097] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efeffff window]
[ 1.016063] pci_bus 0000:00: resource 6 [mem
0x8000000000-0xfffffffffff window]
[ 1.017040] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 1.017905] pci_bus 0000:01: resource 2 [mem
0x8000000000-0x80001ffffff 64bit pref]
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[ 1.018867] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 1.019784] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 1.020804] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 1.021655] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 1.022704] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 1.023568] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 1.024854] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 1.025738] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 1.026725] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 1.027562] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 1.028571] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 1.029439] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 1.030397] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10fffffff]
[ 1.031226] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 1.032212] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111ffffff]
[ 1.033024] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 1.034045] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 1.034795] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113ffffff]
[ 1.035633] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 1.036650] pci_bus 0000:0b: resource 0 [io 0xe000-0xefff]
[ 1.037374] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115ffffff]
[ 1.038264] pci_bus 0000:0b: resource 2 [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 1.039294] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 1.040033] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117ffffff]
[ 1.040862] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 1.041824] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 1.042604] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 1.043484] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 1.044503] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 1.045222] pci_bus 0000:0e: resource 1 [mem
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0x11a00000-0x11bfffffff]
[ 1.046020] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bfffffff 64bit pref]
[ 1.047051] pci_bus 0000:0f: resource 0 [io 0xa000-0xaafff]
[ 1.047830] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dfffffff]
[ 1.048674] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 1.049759] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 1.050525] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11fffffff]
[ 1.051408] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 1.052380] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 1.053125] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121fffffff]
[ 1.053981] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 1.054996] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 1.055793] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123fffffff]
[ 1.056662] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 1.057703] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 1.058426] pci_bus 0000:13: resource 1 [mem
0x12400000-0x125fffffff]
[ 1.059192] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 1.060255] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 1.061015] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127fffffff]
[ 1.061851] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 1.062863] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 1.063602] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129fffffff]
[ 1.064472] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 1.065472] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 1.066226] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bfffffff]
[ 1.067066] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 1.068117] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 1.068882] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dfffffff]
[ 1.070145] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 1.071163] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 1.071890] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12fffffff]
[ 1.072709] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 1.073856] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
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[ 1.074544] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 1.075341] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 1.076111] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 1.077237] iommu: Default domain type: Translated
[ 1.077926] iommu: DMA domain TLB invalidation policy: strict
mode
[ 1.079685] SCSI subsystem initialized
[ 1.081045] vgaarb: loaded
[ 1.082067] ACPI: bus type USB registered
[ 1.082764] usbcore: registered new interface driver usbfs
[ 1.083483] usbcore: registered new interface driver hub
[ 1.084199] usbcore: registered new device driver usb
[ 1.084896] pps_core: LinuxPPS API ver. 1 registered
[ 1.085575] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 1.086837] PTP clock support registered
[ 1.087473] EDAC MC: Ver: 3.0.0
[ 1.088729] Registered efivars operations
[ 1.091094] NetLabel: Initializing
[ 1.091593] NetLabel: domain hash size = 128
[ 1.092210] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 1.092935] NetLabel: unlabeled traffic allowed by default
[ 1.094071] clocksource: Switched to clocksource arch_sys_counter
[ 1.104002] VFS: Disk quotas dquot_6.6.0
[ 1.104555] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)
[ 1.105488] AppArmor: AppArmor Filesystem Enabled
[ 1.106157] pnp: PnP ACPI init
[ 1.106687] system 00:00: [mem 0x4010000000-0x401fffffff window]
could not be reserved
[ 1.107796] pnp: PnP ACPI: found 1 devices
[ 1.110216] NET: Registered PF_INET protocol family
[ 1.111317] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.114634] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.115899] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.116947] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.118648] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.119916] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.121263] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.122386] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.123543] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.124783] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.125830] NET: Registered PF_XDP protocol family
[ 1.126848] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.128343] PCI: CLS 0 bytes, default 64
```

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[ 1.128969] Trying to unpack rootfs image as initramfs...
[ 1.131511] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.132775] kvm [1]: HYP mode not available
[ 1.133571] Initialise system trusted keyrings
[ 1.134223] Key type blacklist registered
[ 1.135002] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.136785] zbud: loaded
[ 1.137688] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.139086] fuse: init (API version 7.34)
[ 1.139868] integrity: Platform Keyring initialized
[ 1.149041] Key type asymmetric registered
[ 1.149583] Asymmetric key parser 'x509' registered
[ 1.150282] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.151431] io scheduler mq-deadline registered
[ 1.152983] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.154989] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.156124] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.156933] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.159178] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.161890] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.162960] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[ 1.163803] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.166029] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[ 1.167544] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[ 1.168878] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[ 1.169749] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.172087] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[ 1.174345] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[ 1.176171] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[ 1.176965] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.179912] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[ 1.182185] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[ 1.183218] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[ 1.184004] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.187265] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[ 1.188151] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[ 1.188741] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[ 1.190249] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.192506] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
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[1.194091] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[1.195373] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[1.196219] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.198369] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[1.200322] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[1.201822] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[1.202596] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.205044] ACPI: _SB_.PCI0.GSI1: Enabled at IRQ 36
[1.206485] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[1.207057] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[1.207285] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[1.208323] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.213951] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[1.215145] pcieport 0000:00:11.1: enabling device (0002 -> 0003)
[1.217282] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[1.219060] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[1.220114] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.222724] pcieport 0000:00:11.2: enabling device (0002 -> 0003)
[1.225171] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[1.226052] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[1.226963] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[1.228534] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.231078] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[1.231584] pcieport 0000:00:11.3: enabling device (0002 -> 0003)
[1.234699] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[1.235817] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[1.236669] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.239029] pcieport 0000:00:11.4: enabling device (0002 -> 0003)
[1.241120] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[1.242097] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[1.243975] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[1.247596] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.254000] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[1.255361] pcieport 0000:00:11.5: enabling device (0002 -> 0003)
[1.259815] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[1.263064] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[1.265961] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.272647] pcieport 0000:00:11.6: enabling device (0002 -> 0003)

[1.275589] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[1.279582] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[1.280438] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[1.284594] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.286808] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[1.287413] pcieport 0000:00:11.7: enabling device (0002 -> 0003)
[1.290488] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[1.291740] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[1.292588] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.294889] ACPI: _SB_.PCI0.GSI2: Enabled at IRQ 37
[1.295641] pcieport 0000:00:12.0: enabling device (0002 -> 0003)
[1.297691] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[1.298591] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[1.300471] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[1.303657] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.311372] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[1.312262] pcieport 0000:00:12.1: enabling device (0002 -> 0003)
[1.314616] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[1.316343] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[1.319111] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.326335] pcieport 0000:00:12.2: enabling device (0002 -> 0003)
[1.330849] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[1.335404] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[1.335999] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[1.340246] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.342416] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[1.343766] pcieport 0000:00:12.3: enabling device (0002 -> 0003)
[1.346385] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[1.347501] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[1.348330] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.350723] pcieport 0000:00:12.4: enabling device (0002 -> 0003)
[1.352851] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[1.353763] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[1.355577] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[1.356141] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.357861] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[1.359008] pcieport 0000:00:12.5: enabling device (0002 -> 0003)
[1.363892] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[1.367574] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[1.370848] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+

```
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.373415] Freeing initrd memory: 29520K
[ 1.380373] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.383108] pcieport 0000:00:12.6: enabling device (0002 -> 0003)
[ 1.386614] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.387969] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.389048] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.392004] pcieport 0000:00:12.7: enabling device (0002 -> 0003)
[ 1.394376] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.395634] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.396487] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.398911] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.401857] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.403565] input: Power Button as /devices/LNXSYSTM:00/
LNXSYBUS:00/PNP0C0C:00/input/input0
[ 1.404877] ACPI: button: Power Button [PWRB]
[ 1.408850] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.409664] virtio-pci 0000:00:03.0: enabling device (0000 ->
0002)
[ 1.413408] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.416205] msm_serial: driver initialized
[ 1.417375] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.419815] loop: module loaded
[ 1.421794] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.426784] tun: Universal TUN/TAP device driver, 1.6
[ 1.427859] PPP generic driver version 2.4.2
[ 1.429101] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.430456] ehci-pci: EHCI PCI platform driver
[ 1.431339] ehci-orion: EHCI orion driver
[ 1.432333] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.433798] ohci-pci: OHCI PCI platform driver
[ 1.434992] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.436164] mousedev: PS/2 mouse device common for all mice
[ 1.439685] rtc-efi rtc-efi.0: registered as rtc0
[ 1.442619] rtc-efi rtc-efi.0: setting system clock to
2022-11-25T05:14:40 UTC (1669353280)
[ 1.448523] i2c_dev: i2c /dev entries driver
[ 1.451592] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.460407] device-mapper: uevent: version 1.0.3
[ 1.463997] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
```

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[ 1.465640] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.466716] drop_monitor: Initializing network drop monitor
service
[ 1.467752] NET: Registered PF_INET6 protocol family
[ 1.488781] Segment Routing with IPv6
[ 1.489289] In-situ OAM (IOAM) with IPv6
[ 1.489847] NET: Registered PF_PACKET protocol family
[ 1.491070] Key type dns_resolver registered
[ 1.491906] registered taskstats version 1
[ 1.492655] Loading compiled-in X.509 certificates
[ 1.494117] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.495922] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.497728] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.499133] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.500074] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.501600] zswap: loaded using pool lzo/zbud
[ 1.502558] Key type ._fscrypt registered
[ 1.503098] Key type .fscrypt registered
[ 1.503648] Key type fscrypt-provisioning registered
[ 1.521000] cryptd: max_cpu_qlen set to 1000
[ 1.531976] Key type encrypted registered
[ 1.532515] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.533444] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.534942] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.536489] ima: No TPM chip found, activating TPM-bypass!
[ 1.537229] Loading compiled-in module X.509 certificates
[ 1.538533] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.539890] ima: Allocated hash algorithm: sha1
[ 1.540462] ima: No architecture policies found
[ 1.541036] evm: Initialising EVM extended attributes:
[ 1.541709] evm: security.selinux
[ 1.542192] evm: security.SMACK64
[ 1.542638] evm: security.SMACK64EXEC
[ 1.543123] evm: security.SMACK64TRANSMUTE
[ 1.543628] evm: security.SMACK64MMAP
[ 1.544087] evm: security.apparmor
[ 1.544505] evm: security.ima
[ 1.544897] evm: security.capability
[ 1.545443] evm: HMAC attrs: 0x1
[ 1.548673] Freeing unused kernel memory: 9536K
[ 1.626884] Checked W+X mappings: passed, no W+X pages found
[ 1.627825] Run /init as init process
[ 1.816036] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.816737] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.818547] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
```

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version 0x100 quirks 0x0000000000000010
[ 1.820729] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.821814] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.823401] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.825636] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.827444] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.830545] usb usb1: Product: xHCI Host Controller
[ 1.834765] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.836665] usb usb1: SerialNumber: 0000:00:02.0
[ 1.845491] hub 1-0:1.0: USB hub found
[ 1.846313] hub 1-0:1.0: 4 ports detected
[ 1.847621] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.849309] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.851323] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.853180] usb usb2: Product: xHCI Host Controller
[ 1.853819] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.855460] usb usb2: SerialNumber: 0000:00:02.0
[ 1.873989] hub 2-0:1.0: USB hub found
[ 1.874560] hub 2-0:1.0: 4 ports detected
[ 1.886763] scsi host0: Virtio SCSI HBA
[ 1.890342] scsi 0:0:0:1: Direct-Access ORACLE BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.909034] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.909131] sd 0:0:0:1: Power-on or device reset occurred
[ 1.916546] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 1.917543] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.918752] sd 0:0:0:1: [sda] Write Protect is off
[ 1.920354] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.924284] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.949944] sda: sda1 sda15
[ 1.966000] virtio_net virtio1 enp0s3: renamed from eth0
[ 1.971595] sd 0:0:0:1: [sda] Attached SCSI disk
[ 1.976436] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 1.977387] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.983220] [drm] number of scanouts: 1
[ 1.983857] [drm] number of cap sets: 0
[ 1.985349] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 1.989217] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 1.989227] Console: switching to colour frame buffer device
128x48
```

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[ 1.993536] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 2.186107] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.346097] raid6: neonx8 gen() 13840 MB/s
[ 2.414089] raid6: neonx8 xor() 10853 MB/s
[ 2.482089] raid6: neonx4 gen() 13585 MB/s
[ 2.550093] raid6: neonx4 xor() 11320 MB/s
[ 2.618088] raid6: neonx2 gen() 13047 MB/s
[ 2.686091] raid6: neonx2 xor() 10359 MB/s
[ 2.754086] raid6: neonx1 gen() 10722 MB/s
[ 2.754115] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 2.762115] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 2.790107] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 2.822081] raid6: neonx1 xor() 8652 MB/s
[ 2.830131] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
found
[ 2.834173] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 2.838132] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 2.862160] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 2.862186] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 2.890095] raid6: int64x8 gen() 6265 MB/s
[ 2.894128] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 2.894156] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 2.894801] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 2.950119] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 2.954155] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 2.958107] raid6: int64x8 xor() 3548 MB/s
[ 2.962135] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 2.986136] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 3.022114] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 3.026094] raid6: int64x4 gen() 7259 MB/s
[ 3.046133] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 3.050334] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 3.094089] raid6: int64x4 xor() 3857 MB/s
[ 3.162090] raid6: int64x2 gen() 6174 MB/s
[ 3.230090] raid6: int64x2 xor() 3325 MB/s
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[ 3.298096] raid6: int64x1 gen() 5065 MB/s
[ 3.366092] raid6: int64x1 xor() 2652 MB/s
[ 3.367183] raid6: using algorithm neonx8 gen() 13840 MB/s
[ 3.368482] raid6: .... xor() 10853 MB/s, rmw enabled
[ 3.369616] raid6: using neon recovery algorithm
[ 3.373569] xor: measuring software checksum speed
[ 3.375322] 8regs : 17282 MB/sec
[ 3.377136] 32regs : 20739 MB/sec
[ 3.379097] arm64_neon : 25915 MB/sec
[ 3.380435] xor: using function: arm64_neon (25915 MB/sec)
[ 3.383425] async_tx: api initialized (async)
[ 3.394570] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 3.396106] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 3.397507] usb 1-1: Product: QEMU USB Tablet
[ 3.398543] usb 1-1: Manufacturer: QEMU
[ 3.399443] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 3.526099] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 3.674518] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 3.676001] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 3.677422] usb 1-2: Product: QEMU USB Keyboard
[ 3.678424] usb 1-2: Manufacturer: QEMU
[ 3.679373] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 3.806110] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
[ 3.878134] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 3.906176] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 3.934138] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 3.954564] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 3.956222] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 3.957738] usb 1-3: Product: QEMU USB Mouse
[ 3.958892] usb 1-3: Manufacturer: QEMU
[ 3.959859] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 3.967728] hid: raw HID events driver (C) Jiri Kosina
[ 3.973950] usbcore: registered new interface driver usbhid
[ 3.975208] usbhid: USB HID core driver
[ 3.980101] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 3.982606] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 3.986226] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 3.990282] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
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found
[ 4.050115] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
[ 4.054360] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 4.062907] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 4.067004] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 4.086435] No iBFT detected.
[ 4.196277] Loading iSCSI transport class v2.0-870.
[ 4.204691] iscsi: registered transport (tcp)
[ 4.301367] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 4.429755] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 4.709011] systemd[1]: Inserted module 'autofs4'
[ 4.745405] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 4.751893] systemd[1]: Detected virtualization kvm.
[ 4.754009] systemd[1]: Detected architecture arm64.
[ 4.765322] systemd[1]: Hostname set to <ubuntu>.
[ 4.914153] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 5.207696] systemd[1]: Queued start job for default target
Graphical Interface.
[ 5.210153] random: systemd: uninitialized urandom read (16 bytes
read)
[ 5.231409] systemd[1]: Created slice Slice /system/modprobe.
[ 5.236870] random: systemd: uninitialized urandom read (16 bytes
read)
[ 5.243207] systemd[1]: Created slice Slice /system/serial-getty.
[ 5.249162] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 5.252173] systemd[1]: Created slice User and Session Slice.
[ 5.254579] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 5.257168] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 5.267716] systemd[1]: Reached target Slice Units.
[ 5.269982] systemd[1]: Reached target Swaps.
[ 5.272045] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 5.275055] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 5.286907] systemd[1]: Listening on LVM2 poll daemon socket.
[ 5.289454] systemd[1]: Listening on multipathd control socket.
[ 5.327023] systemd[1]: Listening on RPCbind Server Activation
Socket.
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[ 5.332141] systemd[1]: Listening on Syslog Socket.
[ 5.334554] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 5.343854] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 5.347489] systemd[1]: Listening on Journal Audit Socket.
[ 5.350812] systemd[1]: Listening on Journal Socket (/dev/log).
[ 5.361310] systemd[1]: Listening on Journal Socket.
[ 5.363738] systemd[1]: Listening on Network Service Netlink
Socket.
[ 5.366232] systemd[1]: Listening on udev Control Socket.
[ 5.371108] systemd[1]: Listening on udev Kernel Socket.
[ 5.395052] systemd[1]: Mounting Huge Pages File System...
[ 5.400289] systemd[1]: Mounting POSIX Message Queue File
System...
[ 5.404710] systemd[1]: Mounting Kernel Debug File System...
[ 5.408318] systemd[1]: Mounting Kernel Trace File System...
[ 5.413266] systemd[1]: Starting Journal Service...
[ 5.417534] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 5.425463] systemd[1]: Starting Set the console keyboard
layout...
[ 5.439479] systemd[1]: Starting Create List of Static Device
Nodes...
[ 5.444602] systemd[1]: Starting Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling...
[ 5.455164] systemd[1]: Condition check resulted in LXDM - agent
being skipped.
[ 5.458617] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 5.465005] systemd[1]: Starting Load Kernel Module configs...
[ 5.476680] systemd[1]: Starting Load Kernel Module drm...
[ 5.480577] systemd[1]: Starting Load Kernel Module efi_pstore...
[ 5.489742] pstore: Using crash dump compression: deflate
[ 5.489747] pstore: Registered efi as persistent store backend
[ 5.495585] systemd[1]: Starting Load Kernel Module fuse...
[ 5.500320] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 5.510349] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 5.515715] systemd[1]: Starting Load Kernel Module ramoops...
[ 5.519300] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 5.522301] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 5.527740] systemd[1]: Starting Load Kernel Modules...
[ 5.533832] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 5.547925] systemd[1]: Starting Coldplug All udev Devices...
[ 5.548100] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 5.556559] systemd[1]: Started Journal Service.
[ 5.635050] systemd-journald[514]: Received client request to
flush runtime journal.
[ 5.643360] alua: device handler registered
```



```
[ 5.652768] emc: device handler registered
[ 5.671595] rdac: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

```
ubuntu login: [156438.965828] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (buildd@bos02-
arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC
2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa67018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa69000 MEMRESERVE=0x638b41798
[ 0.000000] secureboot: Secure boot disabled
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x00000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x00000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x00000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x00000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x00000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x00000006385CD898 000060 (v02 BOCHS
BXPCGTDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x00000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x00000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x00000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x00000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x9000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000100000000-0x000000063fffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
```

```
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x00000006386affff]
[ 0.000000] node 0: [mem
0x00000006386b0000-0x0000000638b3ffff]
[ 0.000000] node 0: [mem
0x0000000638b40000-0x000000063be1ffff]
[ 0.000000] node 0: [mem
0x000000063be20000-0x000000063beaffff]
[ 0.000000] node 0: [mem
0x000000063beb0000-0x000000063bebffff]
[ 0.000000] node 0: [mem
0x000000063bec0000-0x000000063bfdffff]
[ 0.000000] node 0: [mem
0x000000063bfe0000-0x000000063fffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_eh=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
```

```
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000918] Console: colour dummy device 80x25
[ 0.001008] printk: console [tty1] enabled
[ 0.001179] ACPI: Core revision 20210730
[ 0.001374] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001378] pid_max: default: 32768 minimum: 301
[ 0.001570] LSM: Security Framework initializing
[ 0.001579] landlock: Up and running.
[ 0.001580] Yama: becoming mindful.
[ 0.002190] AppArmor: AppArmor initialized
[ 0.002994] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
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[ 0.003029] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006406] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.006564] rcu: Hierarchical SRCU implementation.
[ 0.006775] Platform MSI: ITS@0x8080000 domain created
[ 0.006928] PCI/MSI: ITS@0x8080000 domain created
[ 0.007078] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007233] Remapping and enabling EFI services.
[ 0.007781] smp: Bringing up secondary CPUs ...
[ 0.022406] Detected PIPT I-cache on CPU1
[ 0.022427] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.022491] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
[ 0.022503] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.022521] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.037190] Detected PIPT I-cache on CPU2
[ 0.037212] GICv3: CPU2: found redistributor 2 region
0:0x00000000080e0000
[ 0.037275] GICv3: CPU2: using allocated LPI pending table
@0x0000000100220000
[ 0.037289] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.037308] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.051950] Detected PIPT I-cache on CPU3
[ 0.051974] GICv3: CPU3: found redistributor 3 region
0:0x0000000008100000
[ 0.052033] GICv3: CPU3: using allocated LPI pending table
@0x0000000100230000
[ 0.052047] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.052065] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.052150] smp: Brought up 1 node, 4 CPUs
[ 0.052175] SMP: Total of 4 processors activated.
[ 0.052178] CPU features: detected: 32-bit EL0 Support
[ 0.052179] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.052182] CPU features: detected: Common not Private
translations
[ 0.052184] CPU features: detected: CRC32 instructions
[ 0.052186] CPU features: detected: Data cache clean to Point of
Persistence
[ 0.052188] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.052190] CPU features: detected: LSE atomic instructions
[ 0.052192] CPU features: detected: Privileged Access Never
[ 0.052193] CPU features: detected: RAS Extension Support
[ 0.052351] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.166684] CPU: All CPU(s) started at EL1
```

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[ 0.166728] alternatives: patching kernel code
[ 0.168770] devtmpfs: initialized
[ 0.170633] Registered cp15_barrier emulation handler
[ 0.170730] Registered setend emulation handler
[ 0.170733] KASLR disabled due to lack of seed
[ 0.170769] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.170780] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.171231] pinctrl core: initialized pinctrl subsystem
[ 0.172410] SMBIOS 3.0.0 present.
[ 0.172414] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.173493] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.175666] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.175900] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.176446] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.176459] audit: initializing netlink subsys (disabled)
[ 0.176521] audit: type=2000 audit(0.172:1): state=initialized
audit_enabled=0 res=1
[ 0.177267] thermal_sys: Registered thermal governor 'fair_share'
[ 0.177269] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.177273] thermal_sys: Registered thermal governor 'step_wise'
[ 0.177274] thermal_sys: Registered thermal governor 'user_space'
[ 0.177276] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.177288] cpuidle: using governor ladder
[ 0.177293] cpuidle: using governor menu
[ 0.177323] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.177393] ASID allocator initialised with 32768 entries
[ 0.177605] ACPI: bus type PCI registered
[ 0.177756] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.177966] Serial: AMBA PL011 UART driver
[ 0.179645] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.179649] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.179651] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.179652] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.182634] fbcon: Taking over console
[ 0.182647] ACPI: Added _OSI(Module Device)
[ 0.182649] ACPI: Added _OSI(Processor Device)
[ 0.182651] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.182652] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.182654] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.182656] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.182658] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.183234] ACPI: 1 ACPI AML tables successfully acquired and
```

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loaded
[ 0.183426] ACPI: Interpreter enabled
[ 0.183428] ACPI: Using GIC for interrupt routing
[ 0.183434] ACPI: MCFG table detected, 1 entries
[ 0.185712] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.328014] printk: console [ttyAMA0] enabled
[ 0.329842] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.330693] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.332105] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.333160] acpi PNP0A08:00: _OSC: OS now controls [PCIeHotplug
PME AER PCIeCapability]
[ 0.334329] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401ffffffff] reserved by PNP0C02:00
[ 0.335611] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401ffffffff] for [bus 00-ff]
[ 0.336566] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
[ 0.337868] PCI host bridge to bus 0000:00
[ 0.338403] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.339092] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.339985] pci_bus 0000:00: root bus resource [mem
0x10000000-0x3efefffff window]
[ 0.340944] pci_bus 0000:00: root bus resource [mem
0x8000000000-0xfffffffffff window]
[ 0.341984] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.342984] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.345426] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.348416] pci 0000:00:01.0: reg 0x20: [mem
0x8030000000-0x8030003fff 64bit pref]
[ 0.350360] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.351194] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.352468] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.353313] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.355035] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.356342] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.358398] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.361541] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.363524] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.367709] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.369611] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.372630] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.374643] pci 0000:00:10.3: reg 0x10: [mem
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0x13014000-0x13014fff
[0.378929] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[0.380833] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[0.383903] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[0.385796] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[0.390024] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[0.392023] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[0.395069] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[0.397037] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[0.401194] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[0.403068] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[0.406163] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[0.408084] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[0.412314] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[0.414173] pci 0000:00:11.2: reg 0x10: [mem
0x1300d000-0x1300dfff]
[0.417237] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[0.419144] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[0.423389] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[0.425283] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[0.428339] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[0.430195] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[0.434375] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[0.436376] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[0.439450] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[0.441342] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[0.445433] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[0.447324] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[0.450417] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[0.452339] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[0.456471] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[0.458379] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[0.461327] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[0.463321] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[0.467473] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[0.469407] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[0.472441] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[0.474382] pci 0000:00:12.5: reg 0x10: [mem

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0x13002000-0x13002fff]
[ 0.478626] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.480556] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.483613] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.485492] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.502057] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.503926] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.506756] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.519065] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.520381] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.523342] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 01] add_size 200000 add_align 100000
[ 0.524734] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
[ 0.525812] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.527305] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.528738] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.529769] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.531198] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.533284] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.534337] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.535863] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.537248] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.538417] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.539995] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
[ 0.541446] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.542622] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.544195] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
```



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[ 0.545674] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.546788] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.548405] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.549795] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.550933] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.552283] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.553540] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.554735] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.556303] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
[ 0.557732] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.558810] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.560353] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.561794] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.562901] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.564466] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.565890] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.566954] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.568453] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.569786] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.570803] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
[ 0.572176] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.573409] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.574402] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
```

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[ 0.575751] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.577006] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.578083] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.579607] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.580883] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.581904] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.583349] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.584680] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.585691] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
[ 0.587105] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.588475] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.589644] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.590963] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.592377] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.593442] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.594962] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.596309] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.597353] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.598820] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.600234] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.601244] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.602706] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.604084] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.605135] pci 0000:00:12.5: bridge window [mem
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0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.606595] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.608028] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.609121] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.610601] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.612094] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.613151] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.614638] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.616060] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.616982] pci 0000:00:10.0: BAR 15: assigned [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.618038] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[ 0.618893] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.619971] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[ 0.620872] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.621872] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[ 0.622784] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.623889] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[ 0.624759] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.625784] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[ 0.626646] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.627678] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[ 0.628573] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.629610] pci 0000:00:10.7: BAR 14: assigned [mem
0x10e00000-0x10ffffff]
[ 0.630486] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 0.631603] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[ 0.632502] pci 0000:00:11.0: BAR 15: assigned [mem
0x8001000000-0x80011ffffff 64bit pref]
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[0.633570] pci 0000:00:11.1: BAR 14: assigned [mem 0x11200000-0x113ffffff]
[0.634496] pci 0000:00:11.1: BAR 15: assigned [mem 0x8001200000-0x80013ffffff 64bit pref]
[0.635616] pci 0000:00:11.2: BAR 14: assigned [mem 0x11400000-0x115ffffff]
[0.636524] pci 0000:00:11.2: BAR 15: assigned [mem 0x8001400000-0x80015ffffff 64bit pref]
[0.637645] pci 0000:00:11.3: BAR 14: assigned [mem 0x11600000-0x117ffffff]
[0.638545] pci 0000:00:11.3: BAR 15: assigned [mem 0x8001600000-0x80017ffffff 64bit pref]
[0.639602] pci 0000:00:11.4: BAR 14: assigned [mem 0x11800000-0x119ffffff]
[0.640483] pci 0000:00:11.4: BAR 15: assigned [mem 0x8001800000-0x80019ffffff 64bit pref]
[0.641473] pci 0000:00:11.5: BAR 14: assigned [mem 0x11a00000-0x11bffffff]
[0.642367] pci 0000:00:11.5: BAR 15: assigned [mem 0x8001a00000-0x8001bffffff 64bit pref]
[0.643406] pci 0000:00:11.6: BAR 14: assigned [mem 0x11c00000-0x11dffffff]
[0.644287] pci 0000:00:11.6: BAR 15: assigned [mem 0x8001c00000-0x8001dffffff 64bit pref]
[0.645283] pci 0000:00:11.7: BAR 14: assigned [mem 0x11e00000-0x11fffffff]
[0.646171] pci 0000:00:11.7: BAR 15: assigned [mem 0x8001e00000-0x8001fffffff 64bit pref]
[0.647228] pci 0000:00:12.0: BAR 14: assigned [mem 0x12000000-0x121ffffff]
[0.648031] pci 0000:00:12.0: BAR 15: assigned [mem 0x8002000000-0x80021ffffff 64bit pref]
[0.649065] pci 0000:00:12.1: BAR 14: assigned [mem 0x12200000-0x123ffffff]
[0.649899] pci 0000:00:12.1: BAR 15: assigned [mem 0x8002200000-0x80023ffffff 64bit pref]
[0.650970] pci 0000:00:12.2: BAR 14: assigned [mem 0x12400000-0x125ffffff]
[0.651938] pci 0000:00:12.2: BAR 15: assigned [mem 0x8002400000-0x80025ffffff 64bit pref]
[0.653050] pci 0000:00:12.3: BAR 14: assigned [mem 0x12600000-0x127ffffff]
[0.653974] pci 0000:00:12.3: BAR 15: assigned [mem 0x8002600000-0x80027ffffff 64bit pref]
[0.655043] pci 0000:00:12.4: BAR 14: assigned [mem 0x12800000-0x129ffffff]
[0.655990] pci 0000:00:12.4: BAR 15: assigned [mem 0x8002800000-0x80029ffffff 64bit pref]
[0.657092] pci 0000:00:12.5: BAR 14: assigned [mem 0x12a00000-0x12bffffff]
[0.658011] pci 0000:00:12.5: BAR 15: assigned [mem 0x8002a00000-0x8002bffffff 64bit pref]
[0.659054] pci 0000:00:12.6: BAR 14: assigned [mem 0x12c00000-0x12dffffff]

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[ 0.659985] pci 0000:00:12.6: BAR 15: assigned [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.661140] pci 0000:00:12.7: BAR 14: assigned [mem
0x12e00000-0x12fffffff]
[ 0.662016] pci 0000:00:12.7: BAR 15: assigned [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.663093] pci 0000:00:01.0: BAR 4: assigned [mem
0x8003000000-0x8003003fff 64bit pref]
[ 0.665091] pci 0000:00:02.0: BAR 0: assigned [mem
0x8003004000-0x8003007fff 64bit]
[ 0.666164] pci 0000:00:03.0: BAR 4: assigned [mem
0x8003008000-0x800300bfff 64bit pref]
[ 0.667176] pci 0000:00:01.0: BAR 1: assigned [mem
0x13000000-0x13000fff]
[ 0.668451] pci 0000:00:03.0: BAR 1: assigned [mem
0x13001000-0x13001fff]
[ 0.669346] pci 0000:00:10.0: BAR 0: assigned [mem
0x13002000-0x13002fff]
[ 0.670651] pci 0000:00:10.0: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.671529] pci 0000:00:10.1: BAR 0: assigned [mem
0x13003000-0x13003fff]
[ 0.672810] pci 0000:00:10.1: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.673650] pci 0000:00:10.2: BAR 0: assigned [mem
0x13004000-0x13004fff]
[ 0.674953] pci 0000:00:10.2: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.675770] pci 0000:00:10.3: BAR 0: assigned [mem
0x13005000-0x13005fff]
[ 0.677027] pci 0000:00:10.3: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.677863] pci 0000:00:10.4: BAR 0: assigned [mem
0x13006000-0x13006fff]
[ 0.679092] pci 0000:00:10.4: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.679937] pci 0000:00:10.5: BAR 0: assigned [mem
0x13007000-0x13007fff]
[ 0.681138] pci 0000:00:10.5: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.681906] pci 0000:00:10.6: BAR 0: assigned [mem
0x13008000-0x13008fff]
[ 0.683131] pci 0000:00:10.6: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.683968] pci 0000:00:10.7: BAR 0: assigned [mem
0x13009000-0x13009fff]
[ 0.685965] pci 0000:00:10.7: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.686774] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.688025] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.688794] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
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[ 0.689943] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xffff]
[ 0.690723] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.691915] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.692617] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.693769] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.694607] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.695867] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.696703] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 0.697854] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 0.698617] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.699790] pci 0000:00:11.6: BAR 13: assigned [io
0xf000-0xffff]
[ 0.700558] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.701772] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.702606] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.703462] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.704612] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.705418] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.706845] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.708075] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.708899] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.709720] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.710916] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.711811] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 0.712683] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 0.713938] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 0.714733] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 0.715627] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
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[ 0.716868] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 0.717668] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 0.718457] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 0.719685] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[ 0.720513] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 0.721410] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 0.722665] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 0.723552] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[ 0.724499] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 0.725761] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 0.726628] pci 0000:00:12.7: BAR 13: failed to assign [io size
0x1000]
[ 0.727532] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.728332] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.729165] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.729999] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.730802] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.731639] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.732455] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.733246] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.734023] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.734816] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 0.735633] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.736448] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.737238] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.738025] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.738791] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.739566] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
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[ 0.740420] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.741311] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.742161] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.743040] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.743917] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.744755] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.745620] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.746508] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 0.747357] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.748175] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.748991] pci 0000:00:10.3: BAR 13: failed to assign [io size
0x1000]
[ 0.749871] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.750694] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.751567] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.752360] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.753176] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.753968] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.754816] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.756132] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 0.758128] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.759922] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.761187] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 0.762529] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.764383] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.765687] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105ffffff]
[ 0.767642] pci 0000:00:10.2: bridge window [mem
0x800040000-0x80005ffffff 64bit pref]
[ 0.769588] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.770852] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 0.772262] pci 0000:00:10.3: bridge window [mem
0x800060000-0x80007ffffff 64bit pref]
```



```
[ 0.774128] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.775410] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 0.776812] pci 0000:00:10.4: bridge window [mem
0x800080000-0x80009ffffff 64bit pref]
[ 0.779371] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.780694] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
[ 0.781981] pci 0000:00:10.5: bridge window [mem
0x8000a0000-0x8000bffffff 64bit pref]
[ 0.783827] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.785119] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dffffff]
[ 0.786451] pci 0000:00:10.6: bridge window [mem
0x8000c0000-0x8000dffffff 64bit pref]
[ 0.788960] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.790239] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10fffffff]
[ 0.791571] pci 0000:00:10.7: bridge window [mem
0x8000e0000-0x8000fffffff 64bit pref]
[ 0.793305] pci 0000:00:11.0: PCI bridge to [bus 09]
[ 0.794496] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.795815] pci 0000:00:11.0: bridge window [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.797681] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.798340] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.800380] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.801749] pci 0000:00:11.1: bridge window [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.803601] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.804277] pci 0000:00:11.2: bridge window [io 0xe000-0xffff]
[ 0.805666] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.806907] pci 0000:00:11.2: bridge window [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.808706] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.809355] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.811384] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.812683] pci 0000:00:11.3: bridge window [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.814479] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.815165] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.816572] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119ffffff]
[ 0.817838] pci 0000:00:11.4: bridge window [mem
0x800180000-0x80019ffffff 64bit pref]
[ 0.819656] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.820927] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.822365] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.823675] pci 0000:00:11.5: bridge window [mem
```

```
0x8001a00000-0x8001bfffffff 64bit pref]
[ 0.825557] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.826252] pci 0000:00:11.6: bridge window [io 0xa000-0xafff]
[ 0.827694] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dfffffff]
[ 0.828978] pci 0000:00:11.6: bridge window [mem
0x8001c00000-0x8001dfffffff 64bit pref]
[ 0.830748] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.831984] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.833389] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11fffffff]
[ 0.834710] pci 0000:00:11.7: bridge window [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.836593] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.837255] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 0.838561] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121fffffff]
[ 0.839832] pci 0000:00:12.0: bridge window [mem
0x8002000000-0x80021fffffff 64bit pref]
[ 0.842240] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.842914] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
[ 0.844320] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123fffffff]
[ 0.845646] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023fffffff 64bit pref]
[ 0.847450] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.848155] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.849566] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125fffffff]
[ 0.850845] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025fffffff 64bit pref]
[ 0.853286] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.854027] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.855393] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127fffffff]
[ 0.856697] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027fffffff 64bit pref]
[ 0.858554] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.859170] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.860540] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129fffffff]
[ 0.861885] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029fffffff 64bit pref]
[ 0.864375] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.865039] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.866406] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bfffffff]
[ 0.867729] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.869545] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 0.870209] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 0.871606] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dfffffff]
[ 0.872922] pci 0000:00:12.6: bridge window [mem
```

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0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.875336] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 0.877102] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 0.878308] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 0.878965] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 0.880339] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12fffffff]
[ 0.881629] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.883434] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 0.884838] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efefffff window]
[ 0.885821] pci_bus 0000:00: resource 6 [mem
0x8000000000-0xfffffffffff window]
[ 0.886700] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 0.887524] pci_bus 0000:01: resource 2 [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.888363] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 0.889122] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.890027] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 0.890797] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.891780] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 0.892570] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.893555] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 0.894366] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.895867] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 0.896711] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.897721] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 0.898560] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.899586] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10ffffff]
[ 0.900426] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000fffffff 64bit pref]
[ 0.901442] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111ffffff]
[ 0.902266] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.903321] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
```

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[ 0.904065] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113ffffff]
[ 0.904847] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.905798] pci_bus 0000:0b: resource 0 [io 0xe000-0xefff]
[ 0.906488] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115ffffff]
[ 0.907286] pci_bus 0000:0b: resource 2 [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.908241] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 0.908909] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117ffffff]
[ 0.909647] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.910571] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 0.911240] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 0.912067] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.913117] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 0.913892] pci_bus 0000:0e: resource 1 [mem
0x11a00000-0x11bffffff]
[ 0.914709] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.915733] pci_bus 0000:0f: resource 0 [io 0xa000-0xafff]
[ 0.916450] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dffffff]
[ 0.917302] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.918290] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 0.919023] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11fffffff]
[ 0.919831] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.920841] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 0.921578] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121ffffff]
[ 0.922380] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.923380] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 0.924122] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123ffffff]
[ 0.924881] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.926044] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 0.926786] pci_bus 0000:13: resource 1 [mem
0x12400000-0x125ffffff]
[ 0.927628] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.928618] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 0.929350] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127ffffff]
[ 0.930081] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027ffffff 64bit pref]
```

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[ 0.931065] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 0.931828] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129ffffff]
[ 0.932619] pci_bus 0000:15: resource 2 [mem
0x800280000-0x80029ffffff 64bit pref]
[ 0.933585] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 0.934303] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bffffff]
[ 0.935147] pci_bus 0000:16: resource 2 [mem
0x8002a0000-0x8002bffffff 64bit pref]
[ 0.936182] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 0.936830] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dffffff]
[ 0.937586] pci_bus 0000:17: resource 2 [mem
0x8002c0000-0x8002dffffff 64bit pref]
[ 0.938535] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 0.939285] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12ffffff]
[ 0.940016] pci_bus 0000:18: resource 2 [mem
0x8002e0000-0x8002ffffff 64bit pref]
[ 0.941011] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
[ 0.941809] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 0.942611] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 0.943424] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 0.944527] iommu: Default domain type: Translated
[ 0.944969] iommu: DMA domain TLB invalidation policy: strict
mode
[ 0.946454] SCSI subsystem initialized
[ 0.947373] vgaarb: loaded
[ 0.948818] ACPI: bus type USB registered
[ 0.951337] usbcore: registered new interface driver usbfs
[ 0.955175] usbcore: registered new interface driver hub
[ 0.958836] usbcore: registered new device driver usb
[ 0.962418] pps_core: LinuxPPS API ver. 1 registered
[ 0.966476] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 0.972690] PTP clock support registered
[ 0.975616] EDAC MC: Ver: 3.0.0
[ 0.978767] Registered efivars operations
[ 0.983383] NetLabel: Initializing
[ 0.985869] NetLabel: domain hash size = 128
[ 0.988781] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 0.992557] NetLabel: unlabeled traffic allowed by default
[ 0.996590] clocksource: Switched to clocksource arch_sys_counter
[ 1.009943] VFS: Disk quotas dquot_6.6.0
[ 1.012902] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)
[ 1.017765] AppArmor: AppArmor Filesystem Enabled
[ 1.021154] pnp: PnP ACPI init
[ 1.023708] system 00:00: [mem 0x401000000-0x401fffffff window]
could not be reserved
[ 1.029150] pnp: PnP ACPI: found 1 devices
[ 1.033569] NET: Registered PF_INET protocol family
[ 1.037497] IP idents hash table entries: 262144 (order: 9,
```

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2097152 bytes, linear)
[ 1.044494] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.050031] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.055533] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.061546] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.066680] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.071524] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.077465] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.082481] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.088015] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.092038] NET: Registered PF_XDP protocol family
[ 1.095833] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.100105] PCI: CLS 0 bytes, default 64
[ 1.100545] Trying to unpack rootfs image as initramfs...
[ 1.103073] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.104366] kvm [1]: HYP mode not available
[ 1.105163] Initialise system trusted keyrings
[ 1.105804] Key type blacklist registered
[ 1.106497] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.108708] zbud: loaded
[ 1.109615] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.110977] fuse: init (API version 7.34)
[ 1.111763] integrity: Platform Keyring initialized
[ 1.120718] Key type asymmetric registered
[ 1.122866] Asymmetric key parser 'x509' registered
[ 1.126289] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.132155] io scheduler mq-deadline registered
[ 1.135441] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.140562] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.145325] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.149513] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.158808] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.160789] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.164563] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[ 1.168684] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.178601] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[ 1.180794] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[ 1.185339] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[ 1.186466] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
```

PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.190175] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[1.191361] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[1.192614] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[1.193284] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.195092] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[1.197372] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[1.201559] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[1.205437] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.214758] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[1.217072] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[1.219619] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[1.222545] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.230503] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[1.234311] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[1.235142] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[1.239398] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.241713] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[1.243752] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[1.245423] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[1.246255] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.248618] ACPI: _SB_.PCI0.GSI1: Enabled at IRQ 36
[1.250289] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[1.251212] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[1.252221] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[1.254848] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.261435] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[1.262279] pcieport 0000:00:11.1: enabling device (0002 -> 0003)
[1.268106] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[1.272740] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[1.275509] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.282317] pcieport 0000:00:11.2: enabling device (0002 -> 0003)
[1.287414] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[1.291686] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[1.292796] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[1.296745] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.299065] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up

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[ 1.299406] pcieport 0000:00:11.3: enabling device (0002 -> 0003)
[ 1.302688] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.303788] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.303897] Freeing initrd memory: 29520K
[ 1.304749] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.307821] pcieport 0000:00:11.4: enabling device (0002 -> 0003)
[ 1.310007] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[ 1.310943] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.311999] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[ 1.313390] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.319953] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[ 1.321071] pcieport 0000:00:11.5: enabling device (0002 -> 0003)
[ 1.325541] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[ 1.330708] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[ 1.334551] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.343473] pcieport 0000:00:11.6: enabling device (0002 -> 0003)
[ 1.348497] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[ 1.351758] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[ 1.352466] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[ 1.355643] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.358144] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[ 1.358642] pcieport 0000:00:11.7: enabling device (0002 -> 0003)
[ 1.361099] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[ 1.362153] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[ 1.362990] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.365392] ACPI: \_SB_.PCI0.GSI2: Enabled at IRQ 37
[ 1.366116] pcieport 0000:00:12.0: enabling device (0002 -> 0003)
[ 1.368261] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[ 1.369162] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[ 1.369979] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[ 1.371312] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.373580] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[ 1.374623] pcieport 0000:00:12.1: enabling device (0002 -> 0003)
[ 1.377494] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[ 1.379932] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[ 1.381639] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.384470] pcieport 0000:00:12.2: enabling device (0002 -> 0003)
[ 1.387038] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[ 1.388541] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[ 1.389245] pcieport 0000:00:12.2: AER: enabled with IRQ 69
```



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[ 1.391391] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.393606] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[ 1.394144] pcieport 0000:00:12.3: enabling device (0002 -> 0003)
[ 1.396734] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[ 1.397808] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[ 1.398603] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.400995] pcieport 0000:00:12.4: enabling device (0002 -> 0003)
[ 1.403069] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[ 1.403980] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[ 1.405057] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[ 1.405883] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.408391] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.409643] pcieport 0000:00:12.5: enabling device (0002 -> 0003)
[ 1.411889] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.413881] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[ 1.415407] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.418367] pcieport 0000:00:12.6: enabling device (0002 -> 0003)
[ 1.421317] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.422364] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.423118] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.425095] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.427258] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.427711] pcieport 0000:00:12.7: enabling device (0002 -> 0003)
[ 1.430283] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.431379] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.432224] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.434558] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.436151] input: Power Button as /devices/LNXSYSTM:00/
LNXXSYBUS:00/PNP0C0C:00/input/input0
[ 1.437500] ACPI: button: Power Button [PWRB]
[ 1.441240] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.441972] virtio-pci 0000:00:03.0: enabling device (0000 ->
0002)
[ 1.445329] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.447556] msm_serial: driver initialized
[ 1.448294] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.450654] loop: module loaded
[ 1.451222] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.452544] tun: Universal TUN/TAP device driver, 1.6
```

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[ 1.453481] PPP generic driver version 2.4.2
[ 1.454315] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.455385] ehci-pci: EHCI PCI platform driver
[ 1.456037] ehci-orion: EHCI orion driver
[ 1.456645] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.457887] ohci-pci: OHCI PCI platform driver
[ 1.458524] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.459541] mousedev: PS/2 mouse device common for all mice
[ 1.460564] rtc-efi rtc-efi.0: registered as rtc0
[ 1.461278] rtc-efi rtc-efi.0: setting system clock to
2022-11-27T00:42:08 UTC (1669509728)
[ 1.462469] i2c_dev: i2c /dev entries driver
[ 1.463343] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.465371] device-mapper: uevent: version 1.0.3
[ 1.466247] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.467785] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.468914] drop_monitor: Initializing network drop monitor
service
[ 1.469965] NET: Registered PF_INET6 protocol family
[ 1.490909] Segment Routing with IPv6
[ 1.491429] In-situ OAM (IOAM) with IPv6
[ 1.491977] NET: Registered PF_PACKET protocol family
[ 1.493014] Key type dns_resolver registered
[ 1.493922] registered taskstats version 1
[ 1.494668] Loading compiled-in X.509 certificates
[ 1.496309] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.499062] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.501517] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.502945] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.504451] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.506577] zswap: loaded using pool lzo/zbud
[ 1.508073] Key type ._fscrypt registered
[ 1.509120] Key type .fscrypt registered
[ 1.510132] Key type fscrypt-provisioning registered
[ 1.528440] cryptd: max_cpu_qlen set to 1000
[ 1.539666] Key type encrypted registered
[ 1.540224] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.542026] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.544703] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.550332] ima: No TPM chip found, activating TPM-bypass!
[ 1.553106] Loading compiled-in module X.509 certificates
```

```
[ 1.555559] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.561767] ima: Allocated hash algorithm: sha1
[ 1.564937] ima: No architecture policies found
[ 1.567940] evm: Initialising EVM extended attributes:
[ 1.571518] evm: security.selinux
[ 1.573672] evm: security.SMACK64
[ 1.575263] evm: security.SMACK64EXEC
[ 1.576915] evm: security.SMACK64TRANSMUTE
[ 1.578872] evm: security.SMACK64MMAP
[ 1.581026] evm: security.apparmor
[ 1.583578] evm: security.ima
[ 1.585533] evm: security.capability
[ 1.587060] evm: HMAC attrs: 0x1
[ 1.591218] Freeing unused kernel memory: 9536K
[ 1.657276] Checked W+X mappings: passed, no W+X pages found
[ 1.658127] Run /init as init process
[ 1.845360] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.846362] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.848116] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 1.850749] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.851686] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.853346] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.855906] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.861411] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.865466] usb usb1: Product: xHCI Host Controller
[ 1.868371] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.872844] usb usb1: SerialNumber: 0000:00:02.0
[ 1.877443] hub 1-0:1.0: USB hub found
[ 1.879059] hub 1-0:1.0: 4 ports detected
[ 1.885141] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.886241] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.887317] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.888181] usb usb2: Product: xHCI Host Controller
[ 1.888844] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.889676] usb usb2: SerialNumber: 0000:00:02.0
[ 1.890895] hub 2-0:1.0: USB hub found
[ 1.891414] hub 2-0:1.0: 4 ports detected
[ 1.911659] scsi host0: Virtio SCSI HBA
[ 1.919562] scsi 0:0:0:1: Direct-Access ORACLE BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.932772] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.933581] sd 0:0:0:1: Power-on or device reset occurred
```

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[ 1.936900] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 1.937885] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.938836] sd 0:0:0:1: [sda] Write Protect is off
[ 1.939893] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.941597] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.959904] sda: sda1 sda15
[ 1.982226] sd 0:0:0:1: [sda] Attached SCSI disk
[ 1.991164] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 1.992225] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.993509] virtio_net virtio1 enp0s3: renamed from eth0
[ 1.995758] [drm] number of scanouts: 1
[ 1.998031] [drm] number of cap sets: 0
[ 2.001657] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 2.008995] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 2.009004] Console: switching to colour frame buffer device
128x48
[ 2.019921] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 2.224701] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.352590] raid6: neonx8 gen() 13831 MB/s
[ 2.373072] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.374232] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 2.375370] usb 1-1: Product: QEMU USB Tablet
[ 2.376003] usb 1-1: Manufacturer: QEMU
[ 2.376525] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 2.420587] raid6: neonx8 xor() 10724 MB/s
[ 2.488588] raid6: neonx4 gen() 13569 MB/s
[ 2.504644] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 2.556587] raid6: neonx4 xor() 11312 MB/s
[ 2.624587] raid6: neonx2 gen() 13029 MB/s
[ 2.653182] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.654251] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 2.655252] usb 1-2: Product: QEMU USB Keyboard
[ 2.655811] usb 1-2: Manufacturer: QEMU
[ 2.656417] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 2.692587] raid6: neonx2 xor() 10159 MB/s
[ 2.756618] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 2.760588] raid6: neonx1 gen() 10562 MB/s
[ 2.764685] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 2.784647] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
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[ 2.796652] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device found
[ 2.812631] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device found
[ 2.824628] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device found
[ 2.824727] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device found
[ 2.828587] raid6: neonx1 xor() 8761 MB/s
[ 2.868639] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device found
[ 2.880649] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device found
[ 2.880657] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device found
[ 2.896589] raid6: int64x8 gen() 6321 MB/s
[ 2.933113] usb 1-3: New USB device found, idVendor=0627, idProduct=0001, bcdDevice= 0.00
[ 2.934776] usb 1-3: New USB device strings: Mfr=1, Product=2, SerialNumber=9
[ 2.936423] usb 1-3: Product: QEMU USB Mouse
[ 2.936661] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device found
[ 2.936690] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device found
[ 2.937510] usb 1-3: Manufacturer: QEMU
[ 2.937512] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 2.948621] hid: raw HID events driver (C) Jiri Kosina
[ 2.953129] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device found
[ 2.956365] usbcore: registered new interface driver usbhid
[ 2.957612] usbhid: USB HID core driver
[ 2.960663] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device found
[ 2.964588] raid6: int64x8 xor() 3498 MB/s
[ 2.967281] input: QEMU QEMU USB Tablet as /devices/pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/input1
[ 2.970149] hid-generic 0003:0627:0001.0001: input,hidraw0: USB HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 2.972745] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device found
[ 2.973322] input: QEMU QEMU USB Keyboard as /devices/pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/input2
[ 2.980651] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device found
[ 2.988658] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device found
[ 3.028631] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device found
[ 3.032589] raid6: int64x4 gen() 7248 MB/s
[ 3.036757] hid-generic 0003:0627:0001.0002: input,hidraw1: USB HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
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input0
[ 3.039657] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 3.041976] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 3.100588] raid6: int64x4 xor() 3858 MB/s
[ 3.168587] raid6: int64x2 gen() 6168 MB/s
[ 3.236587] raid6: int64x2 xor() 3323 MB/s
[ 3.304586] raid6: int64x1 gen() 5062 MB/s
[ 3.372589] raid6: int64x1 xor() 2650 MB/s
[ 3.373707] raid6: using algorithm neonx8 gen() 13831 MB/s
[ 3.374949] raid6: .... xor() 10724 MB/s, rmw enabled
[ 3.376108] raid6: using neon recovery algorithm
[ 3.379474] xor: measuring software checksum speed
[ 3.384092] 8regs : 17286 MB/sec
[ 3.388558] 32regs : 20749 MB/sec
[ 3.392555] arm64_neon : 25858 MB/sec
[ 3.396003] xor: using function: arm64_neon (25858 MB/sec)
[ 3.401594] async_tx: api initialized (async)
[ 3.456402] No iBFT detected.
[ 3.572765] Loading iSCSI transport class v2.0-870.
[ 3.581850] iscsi: registered transport (tcp)
[ 3.674814] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 3.784144] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 3.820660] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 3.884712] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 3.944687] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 4.000648] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 4.056721] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 4.061507] systemd[1]: Inserted module 'autofs4'
[ 4.084632] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 4.096211] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 4.102474] systemd[1]: Detected virtualization kvm.
[ 4.104387] systemd[1]: Detected architecture arm64.
[ 4.118789] systemd[1]: Hostname set to <ubuntu>.
[ 4.254330] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 4.537260] systemd[1]: Queued start job for default target
Graphical Interface.
[ 4.540135] random: systemd: uninitialized urandom read (16 bytes
```

```
read)
[ 4.565644] systemd[1]: Created slice Slice /system/modprobe.
[ 4.571356] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.577136] systemd[1]: Created slice Slice /system/postfix.
[ 4.579653] systemd[1]: Created slice Slice /system/serial-getty.
[ 4.582107] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 4.584474] systemd[1]: Created slice User and Session Slice.
[ 4.593206] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 4.600004] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 4.607909] systemd[1]: Reached target Slice Units.
[ 4.617152] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 4.624237] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 4.626682] systemd[1]: Listening on LVM2 poll daemon socket.
[ 4.628998] systemd[1]: Listening on multipathd control socket.
[ 4.636304] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 4.646181] systemd[1]: Listening on Syslog Socket.
[ 4.648315] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 4.650641] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 4.653351] systemd[1]: Listening on Journal Audit Socket.
[ 4.666766] systemd[1]: Listening on Journal Socket (/dev/log).
[ 4.672461] systemd[1]: Listening on Journal Socket.
[ 4.677771] systemd[1]: Listening on Network Service Netlink
Socket.
[ 4.680576] systemd[1]: Listening on udev Control Socket.
[ 4.689277] systemd[1]: Listening on udev Kernel Socket.
[ 4.713834] systemd[1]: Mounting Huge Pages File System...
[ 4.721727] systemd[1]: Mounting POSIX Message Queue File
System...
[ 4.728970] systemd[1]: Mounting Kernel Debug File System...
[ 4.734456] systemd[1]: Mounting Kernel Trace File System...
[ 4.748931] systemd[1]: Starting Journal Service...
[ 4.751679] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 4.757326] systemd[1]: Starting Set the console keyboard
layout...
[ 4.763413] systemd[1]: Starting Create List of Static Device
Nodes...
[ 4.766798] systemd[1]: Starting Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling...
[ 4.769678] systemd[1]: Condition check resulted in LXD - agent
being skipped.
[ 4.774286] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 4.782420] systemd[1]: Starting Load Kernel Module configs...
[ 4.792249] systemd[1]: Starting Load Kernel Module drm...
[ 4.799857] systemd[1]: Starting Load Kernel Module efi_pstore...
```

```
[ 4.803893] systemd[1]: Starting Load Kernel Module fuse...
[ 4.810785] pstore: Using crash dump compression: deflate
[ 4.810796] pstore: Registered efi as persistent store backend
[ 4.818114] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 4.822042] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 4.832405] systemd[1]: Starting Load Kernel Module ramoops...
[ 4.834652] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 4.837032] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 4.842200] systemd[1]: Starting Load Kernel Modules...
[ 4.845734] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 4.850133] systemd[1]: Starting Coldplug All udev Devices...
[ 4.861814] systemd[1]: Mounted Huge Pages File System.
[ 4.864149] systemd[1]: Mounted POSIX Message Queue File System.
[ 4.872518] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 4.877518] systemd[1]: Mounted Kernel Debug File System.
[ 4.882226] systemd[1]: Mounted Kernel Trace File System.
[ 4.885354] systemd[1]: Finished Create List of Static Device
Nodes.
[ 4.892751] systemd[1]: Finished Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling.
[ 4.896510] systemd[1]: Finished Set the console keyboard layout.
[ 4.902669] systemd[1]: modprobe@chromeos_pstore.service:
Deactivated successfully.
[ 4.905250] systemd[1]: Finished Load Kernel Module
chromeos_pstore.
[ 4.940948] systemd[1]: modprobe@configfs.service: Deactivated
successfully.
[ 4.947526] systemd[1]: Finished Load Kernel Module configfs.
[ 4.953830] systemd[1]: Started Journal Service.
[ 4.986242] Adding 5242876k swap on /swapfile. Priority:-2
extents:3 across:5505020k FS
[ 4.990945] systemd-journald[518]: Received client request to
flush runtime journal.
[ 4.995652] alua: device handler registered
[ 5.004451] emc: device handler registered
[ 5.012220] rdac: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

```
ubuntu login: [ 2411.614516] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (buildd@bos02-
arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
```



```
Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC
2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa67018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa69000 MEMRESERVE=0x638b41798
[ 0.000000] secureboot: Secure boot disabled
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x000000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x000000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x000000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x000000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x000000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x000000006385CD898 000060 (v02 BOCHS
BXPCGTD 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x000000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x000000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x000000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x000000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x9000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x0000000063ffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000010000000-0x0000000063ffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x000000006386affff]
[ 0.000000] node 0: [mem
0x000000006386b0000-0x00000000638b3ffff]
[ 0.000000] node 0: [mem
0x00000000638b40000-0x0000000063be1ffff]
[ 0.000000] node 0: [mem
0x0000000063be20000-0x0000000063beaffff]
[ 0.000000] node 0: [mem
0x0000000063beb0000-0x0000000063bebffff]
[ 0.000000] node 0: [mem
0x0000000063bec0000-0x0000000063bfdffff]
[ 0.000000] node 0: [mem
0x0000000063bfe0000-0x0000000063ffffff]
```

```
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_eh=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
```

```
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000921] Console: colour dummy device 80x25
[ 0.001012] printk: console [tty1] enabled
[ 0.001187] ACPI: Core revision 20210730
[ 0.001382] Calibrating delay loop (skipped), value calculated
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001386] pid_max: default: 32768 minimum: 301
[ 0.001578] LSM: Security Framework initializing
[ 0.001585] landlock: Up and running.
[ 0.001587] Yama: becoming mindful.
[ 0.002220] AppArmor: AppArmor initialized
[ 0.003079] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.003114] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006528] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.006685] rcu: Hierarchical SRCU implementation.
[ 0.006902] Platform MSI: ITS@0x8080000 domain created
[ 0.007051] PCI/MSI: ITS@0x8080000 domain created
[ 0.007197] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007353] Remapping and enabling EFI services.
[ 0.007956] smp: Bringing up secondary CPUs ...
[ 0.022211] Detected PIPT I-cache on CPU1
[ 0.022235] GICv3: CPU1: found redistributor 1 region
0:0x00000000080c0000
[ 0.022295] GICv3: CPU1: using allocated LPI pending table
@0x0000000100210000
```

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[ 0.022308] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.022326] CPU1: Booted secondary processor 0x000000001
[0x413fd0c1]
[ 0.036651] Detected PIPT I-cache on CPU2
[ 0.036675] GICv3: CPU2: found redistributor 2 region
0:0x0000000080e0000
[ 0.036738] GICv3: CPU2: using allocated LPI pending table
@0x000000100220000
[ 0.036753] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.036770] CPU2: Booted secondary processor 0x000000002
[0x413fd0c1]
[ 0.051501] Detected PIPT I-cache on CPU3
[ 0.051525] GICv3: CPU3: found redistributor 3 region
0:0x000000008100000
[ 0.051585] GICv3: CPU3: using allocated LPI pending table
@0x000000100230000
[ 0.051599] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.051618] CPU3: Booted secondary processor 0x000000003
[0x413fd0c1]
[ 0.051812] smp: Brought up 1 node, 4 CPUs
[ 0.051837] SMP: Total of 4 processors activated.
[ 0.051839] CPU features: detected: 32-bit EL0 Support
[ 0.051841] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.051844] CPU features: detected: Common not Private
translations
[ 0.051845] CPU features: detected: CRC32 instructions
[ 0.051847] CPU features: detected: Data cache clean to Point of
Persistence
[ 0.051849] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.051851] CPU features: detected: LSE atomic instructions
[ 0.051853] CPU features: detected: Privileged Access Never
[ 0.051854] CPU features: detected: RAS Extension Support
[ 0.052006] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.166997] CPU: All CPU(s) started at EL1
[ 0.167047] alternatives: patching kernel code
[ 0.169246] devtmpfs: initialized
[ 0.171272] Registered cp15_barrier emulation handler
[ 0.171346] Registered setend emulation handler
[ 0.171349] KASLR disabled due to lack of seed
[ 0.171406] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.171419] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.171938] pinctrl core: initialized pinctrl subsystem
[ 0.173327] SMBIOS 3.0.0 present.
[ 0.173331] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.174596] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.176806] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
```

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[ 0.177041] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.177414] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.177426] audit: initializing netlink subsys (disabled)
[ 0.177490] audit: type=2000 audit(0.176:1): state=initialized
audit_enabled=0 res=1
[ 0.178330] thermal_sys: Registered thermal governor 'fair_share'
[ 0.178331] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.178335] thermal_sys: Registered thermal governor 'step_wise'
[ 0.178336] thermal_sys: Registered thermal governor 'user_space'
[ 0.178338] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.178350] cpuidle: using governor ladder
[ 0.178354] cpuidle: using governor menu
[ 0.178383] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.178456] ASID allocator initialised with 32768 entries
[ 0.178694] ACPI: bus type PCI registered
[ 0.178870] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.179107] Serial: AMBA PL011 UART driver
[ 0.180961] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.180965] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.180967] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.180969] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.183450] fbcon: Taking over console
[ 0.183463] ACPI: Added _OSI(Module Device)
[ 0.183465] ACPI: Added _OSI(Processor Device)
[ 0.183467] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.183469] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.183471] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.183472] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.183474] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.184055] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.184246] ACPI: Interpreter enabled
[ 0.184248] ACPI: Using GIC for interrupt routing
[ 0.184255] ACPI: MCFG table detected, 1 entries
[ 0.187354] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.332084] printk: console [ttyAMA0] enabled
[ 0.333973] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.334821] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.336250] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.337325] acpi PNP0A08:00: _OSC: OS now controls [PCIeHotplug
PME AER PCIeCapability]
```

```
[ 0.338523] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401fffffff] reserved by PNP0C02:00
[ 0.339711] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401fffffff] for [bus 00-ff]
[ 0.340794] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
[ 0.342157] PCI host bridge to bus 0000:00
[ 0.342731] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.343469] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.344309] pci_bus 0000:00: root bus resource [mem
0x100000000-0x3efefffff window]
[ 0.345342] pci_bus 0000:00: root bus resource [mem
0x8000000000-0xfffffffffff window]
[ 0.346484] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.347549] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.350098] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.353072] pci 0000:00:01.0: reg 0x20: [mem
0x8030000000-0x8030003fff 64bit pref]
[ 0.355108] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.356061] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.357252] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.358125] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.359995] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.361242] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.363307] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
[ 0.366568] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.368572] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.372581] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.374526] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.377677] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.379697] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.383922] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.385898] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.389033] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.390976] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.395184] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[ 0.397151] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.400263] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.402226] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.406558] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.408487] pci 0000:00:11.0: reg 0x10: [mem
```

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0x1300f000-0x1300ffff]
[ 0.411529] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.413471] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.417742] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.419680] pci 0000:00:11.2: reg 0x10: [mem
0x1300d000-0x1300dfff]
[ 0.422774] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.424721] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.428921] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.430771] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.433826] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.435791] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.440081] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.441973] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.445039] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.446972] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.451298] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.453234] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.456332] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.458302] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.462529] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.464470] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
[ 0.467570] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[ 0.469544] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.473787] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.475847] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.478934] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.480844] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.485036] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.486965] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.490059] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.491981] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.508791] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.510770] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.513488] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.526001] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.528526] pci 0000:00:10.0: bridge window [mem
```

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0x00100000-0x000ffffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.530172] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 01] add_size 200000 add_align 100000
[ 0.531656] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
[ 0.532792] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.534313] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.535764] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.536776] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.539180] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.540612] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.541709] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.543262] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.544737] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.545812] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.547354] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
[ 0.548785] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.549892] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.551389] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
[ 0.552764] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.553849] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.555257] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.556688] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.557795] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.559316] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.560762] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
```



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to [bus 09] add_size 1000
[ 0.561829] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.563325] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
[ 0.564772] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.565867] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.567422] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.568844] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.569901] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.571496] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.572891] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.573919] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.575293] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.576730] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.577866] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
add_align 100000
[ 0.579335] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.580699] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.581752] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.583332] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.584732] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.585804] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.587268] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.588734] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.589788] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.591255] pci 0000:00:11.7: bridge window [mem
```

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0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.592607] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.593671] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
[ 0.595128] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.596546] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.597613] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.599160] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.600655] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.601688] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.603231] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.604645] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.605766] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.607116] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.608519] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
[ 0.609574] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.611077] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.612534] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.613585] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.615134] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.616546] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.617651] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.619099] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.620526] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.621600] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
```

```
add_align 100000
[ 0.623094] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.624576] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.625454] pci 0000:00:10.0: BAR 15: assigned [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.626485] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[ 0.627331] pci 0000:00:10.1: BAR 15: assigned [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.628493] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[ 0.629402] pci 0000:00:10.2: BAR 15: assigned [mem
0x800040000-0x80005ffffff 64bit pref]
[ 0.630427] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[ 0.631342] pci 0000:00:10.3: BAR 15: assigned [mem
0x800060000-0x80007ffffff 64bit pref]
[ 0.632420] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[ 0.633278] pci 0000:00:10.4: BAR 15: assigned [mem
0x800080000-0x80009ffffff 64bit pref]
[ 0.634335] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[ 0.635240] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a0000-0x8000bffffff 64bit pref]
[ 0.636324] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[ 0.637226] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c0000-0x8000dffffff 64bit pref]
[ 0.638284] pci 0000:00:10.7: BAR 14: assigned [mem
0x10e00000-0x10ffffff]
[ 0.639224] pci 0000:00:10.7: BAR 15: assigned [mem
0x8000e0000-0x8000ffffff 64bit pref]
[ 0.640309] pci 0000:00:11.0: BAR 14: assigned [mem
0x11000000-0x111ffffff]
[ 0.641264] pci 0000:00:11.0: BAR 15: assigned [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.642321] pci 0000:00:11.1: BAR 14: assigned [mem
0x11200000-0x113ffffff]
[ 0.643221] pci 0000:00:11.1: BAR 15: assigned [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.644371] pci 0000:00:11.2: BAR 14: assigned [mem
0x11400000-0x115ffffff]
[ 0.645280] pci 0000:00:11.2: BAR 15: assigned [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.646262] pci 0000:00:11.3: BAR 14: assigned [mem
0x11600000-0x117ffffff]
[ 0.647189] pci 0000:00:11.3: BAR 15: assigned [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.648314] pci 0000:00:11.4: BAR 14: assigned [mem
0x11800000-0x119ffffff]
[ 0.649253] pci 0000:00:11.4: BAR 15: assigned [mem
```

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0x8001800000-0x80019ffffff 64bit pref]
[ 0.650418] pci 0000:00:11.5: BAR 14: assigned [mem
0x11a00000-0x11bffffff]
[ 0.651284] pci 0000:00:11.5: BAR 15: assigned [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.652397] pci 0000:00:11.6: BAR 14: assigned [mem
0x11c00000-0x11dffffff]
[ 0.653282] pci 0000:00:11.6: BAR 15: assigned [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.654312] pci 0000:00:11.7: BAR 14: assigned [mem
0x11e00000-0x11ffffff]
[ 0.655233] pci 0000:00:11.7: BAR 15: assigned [mem
0x8001e00000-0x8001ffffff 64bit pref]
[ 0.656295] pci 0000:00:12.0: BAR 14: assigned [mem
0x12000000-0x121ffffff]
[ 0.657164] pci 0000:00:12.0: BAR 15: assigned [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.658262] pci 0000:00:12.1: BAR 14: assigned [mem
0x12200000-0x123ffffff]
[ 0.659166] pci 0000:00:12.1: BAR 15: assigned [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.660313] pci 0000:00:12.2: BAR 14: assigned [mem
0x12400000-0x125ffffff]
[ 0.661247] pci 0000:00:12.2: BAR 15: assigned [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.662342] pci 0000:00:12.3: BAR 14: assigned [mem
0x12600000-0x127ffffff]
[ 0.663162] pci 0000:00:12.3: BAR 15: assigned [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.664269] pci 0000:00:12.4: BAR 14: assigned [mem
0x12800000-0x129ffffff]
[ 0.665220] pci 0000:00:12.4: BAR 15: assigned [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.666341] pci 0000:00:12.5: BAR 14: assigned [mem
0x12a00000-0x12bffffff]
[ 0.667259] pci 0000:00:12.5: BAR 15: assigned [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.668358] pci 0000:00:12.6: BAR 14: assigned [mem
0x12c00000-0x12dffffff]
[ 0.669293] pci 0000:00:12.6: BAR 15: assigned [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 0.670435] pci 0000:00:12.7: BAR 14: assigned [mem
0x12e00000-0x12ffffff]
[ 0.671361] pci 0000:00:12.7: BAR 15: assigned [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 0.672429] pci 0000:00:01.0: BAR 4: assigned [mem
0x8003000000-0x8003003fff 64bit pref]
[ 0.674464] pci 0000:00:02.0: BAR 0: assigned [mem
0x8003004000-0x8003007fff 64bit]
[ 0.675518] pci 0000:00:03.0: BAR 4: assigned [mem
0x8003008000-0x800300bfff 64bit pref]
[ 0.676598] pci 0000:00:01.0: BAR 1: assigned [mem
0x13000000-0x13000fff]
[ 0.677912] pci 0000:00:03.0: BAR 1: assigned [mem
```

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0x13001000-0x13001fff]
[ 0.678803] pci 0000:00:10.0: BAR 0: assigned [mem
0x13002000-0x13002fff]
[ 0.680091] pci 0000:00:10.0: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.680933] pci 0000:00:10.1: BAR 0: assigned [mem
0x13003000-0x13003fff]
[ 0.682180] pci 0000:00:10.1: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.683019] pci 0000:00:10.2: BAR 0: assigned [mem
0x13004000-0x13004fff]
[ 0.684256] pci 0000:00:10.2: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.684967] pci 0000:00:10.3: BAR 0: assigned [mem
0x13005000-0x13005fff]
[ 0.686201] pci 0000:00:10.3: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.687063] pci 0000:00:10.4: BAR 0: assigned [mem
0x13006000-0x13006fff]
[ 0.688337] pci 0000:00:10.4: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.689161] pci 0000:00:10.5: BAR 0: assigned [mem
0x13007000-0x13007fff]
[ 0.690414] pci 0000:00:10.5: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.691261] pci 0000:00:10.6: BAR 0: assigned [mem
0x13008000-0x13008fff]
[ 0.692503] pci 0000:00:10.6: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.693314] pci 0000:00:10.7: BAR 0: assigned [mem
0x13009000-0x13009fff]
[ 0.695276] pci 0000:00:10.7: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.696133] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.697305] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.698147] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
[ 0.699421] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xafff]
[ 0.700258] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.701407] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.702243] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.703415] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.704129] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.705353] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.706222] pci 0000:00:11.5: BAR 0: assigned [mem
```

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0x1300f000-0x1300ffff]
[ 0.707466] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xffff]
[ 0.708277] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.709484] pci 0000:00:11.6: BAR 13: assigned [io
0xf000-0xffff]
[ 0.710310] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.711544] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.712410] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.713284] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.714496] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.715901] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.716774] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.718003] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.718833] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.719753] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.721052] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.721877] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
[ 0.722768] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 0.724017] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 0.724878] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 0.725777] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[ 0.727003] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 0.727864] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 0.728710] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 0.729957] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[ 0.730778] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 0.731695] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 0.732957] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 0.733807] pci 0000:00:12.6: BAR 13: failed to assign [io size
```

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0x1000]
[ 0.734635] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 0.735880] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 0.736717] pci 0000:00:12.7: BAR 13: failed to assign [io size
0x1000]
[ 0.737609] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.738446] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.739286] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.740103] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.740890] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.741659] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.742440] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.743307] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.744142] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.744893] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 0.745629] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.746413] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.747226] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.748089] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.748920] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.749752] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 0.750634] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.751570] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.752445] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.753329] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.754194] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.755131] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.756037] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.756979] pci 0000:00:10.4: BAR 13: no space for [io size
```

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0x1000]
[ 0.757783] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.758635] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.759517] pci 0000:00:10.3: BAR 13: failed to assign [io size
0x1000]
[ 0.760424] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.761248] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.762115] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.762954] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.763810] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.764581] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.765494] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.766882] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101fffff]
[ 0.768258] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001fffff 64bit pref]
[ 0.770262] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.771643] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103fffff]
[ 0.773037] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003fffff 64bit pref]
[ 0.775016] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.777574] pci 0000:00:10.2: bridge window [mem
0x10400000-0x105fffff]
[ 0.778932] pci 0000:00:10.2: bridge window [mem
0x800040000-0x80005fffff 64bit pref]
[ 0.780811] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.782088] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107fffff]
[ 0.783441] pci 0000:00:10.3: bridge window [mem
0x800060000-0x80007fffff 64bit pref]
[ 0.785341] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.786583] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109fffff]
[ 0.788684] pci 0000:00:10.4: bridge window [mem
0x800080000-0x80009fffff 64bit pref]
[ 0.790513] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.791755] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bfffff]
[ 0.793170] pci 0000:00:10.5: bridge window [mem
0x8000a0000-0x8000bfffff 64bit pref]
[ 0.795034] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.796333] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dfffff]
[ 0.798233] pci 0000:00:10.6: bridge window [mem
0x8000c0000-0x8000dfffff 64bit pref]
```



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[ 0.800181] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.801486] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10ffffff]
[ 0.802780] pci 0000:00:10.7: bridge window [mem
0x8000e0000-0x8000ffffff 64bit pref]
[ 0.804584] pci 0000:00:11.0: PCI bridge to [bus 09]
[ 0.805841] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.807150] pci 0000:00:11.0: bridge window [mem
0x800100000-0x80011ffffff 64bit pref]
[ 0.809738] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.810437] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.811888] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.813207] pci 0000:00:11.1: bridge window [mem
0x800120000-0x80013ffffff 64bit pref]
[ 0.815141] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.815861] pci 0000:00:11.2: bridge window [io 0xe000-0xffff]
[ 0.817254] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.818602] pci 0000:00:11.2: bridge window [mem
0x800140000-0x80015ffffff 64bit pref]
[ 0.821175] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.821865] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.823284] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.824687] pci 0000:00:11.3: bridge window [mem
0x800160000-0x80017ffffff 64bit pref]
[ 0.826530] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.827260] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.828706] pci 0000:00:11.4: bridge window [mem
0x11800000-0x119ffffff]
[ 0.830618] pci 0000:00:11.4: bridge window [mem
0x800180000-0x80019ffffff 64bit pref]
[ 0.832485] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.833155] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.834526] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.835850] pci 0000:00:11.5: bridge window [mem
0x8001a0000-0x8001bffffff 64bit pref]
[ 0.837704] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.838416] pci 0000:00:11.6: bridge window [io 0xa000-0xafff]
[ 0.839862] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dffffff]
[ 0.841830] pci 0000:00:11.6: bridge window [mem
0x8001c0000-0x8001dffffff 64bit pref]
[ 0.843706] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.844456] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.845848] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11ffffff]
[ 0.847119] pci 0000:00:11.7: bridge window [mem
0x8001e0000-0x8001ffffff 64bit pref]
[ 0.848975] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.849665] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
```

```
[ 0.851587] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121ffffff]
[ 0.853018] pci 0000:00:12.0: bridge window [mem
0x800200000-0x80021ffffff 64bit pref]
[ 0.854903] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.855593] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
[ 0.857010] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123ffffff]
[ 0.858307] pci 0000:00:12.1: bridge window [mem
0x800220000-0x80023ffffff 64bit pref]
[ 0.860101] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.860758] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.862795] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125ffffff]
[ 0.864139] pci 0000:00:12.2: bridge window [mem
0x800240000-0x80025ffffff 64bit pref]
[ 0.866002] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.866675] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.868087] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127ffffff]
[ 0.869376] pci 0000:00:12.3: bridge window [mem
0x800260000-0x80027ffffff 64bit pref]
[ 0.871278] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.872017] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.874046] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129ffffff]
[ 0.875407] pci 0000:00:12.4: bridge window [mem
0x800280000-0x80029ffffff 64bit pref]
[ 0.877312] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.877997] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.879422] pci 0000:00:12.5: bridge window [mem
0x12a00000-0x12bffffff]
[ 0.880700] pci 0000:00:12.5: bridge window [mem
0x8002a0000-0x8002bffffff 64bit pref]
[ 0.882564] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 0.883881] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 0.885287] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dffffff]
[ 0.886613] pci 0000:00:12.6: bridge window [mem
0x8002c0000-0x8002dffffff 64bit pref]
[ 0.888491] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e0000-0x8002e03fff 64bit pref]
[ 0.890057] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 0.891243] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 0.891915] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 0.893308] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12ffffff]
[ 0.895160] pci 0000:00:12.7: bridge window [mem
0x8002e0000-0x8002ffffff 64bit pref]
[ 0.896997] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 0.897802] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efefffff window]
```

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[ 0.898733] pci_bus 0000:00: resource 6 [mem
0x800000000-0xffffffff window]
[ 0.899695] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101fffff]
[ 0.900558] pci_bus 0000:01: resource 2 [mem
0x800000000-0x80001fffff 64bit pref]
[ 0.901592] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103fffff]
[ 0.902451] pci_bus 0000:02: resource 2 [mem
0x800020000-0x80003fffff 64bit pref]
[ 0.903500] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105fffff]
[ 0.904376] pci_bus 0000:03: resource 2 [mem
0x800040000-0x80005fffff 64bit pref]
[ 0.905425] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107fffff]
[ 0.906300] pci_bus 0000:04: resource 2 [mem
0x800060000-0x80007fffff 64bit pref]
[ 0.907303] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109fffff]
[ 0.908138] pci_bus 0000:05: resource 2 [mem
0x800080000-0x80009fffff 64bit pref]
[ 0.909170] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bfffff]
[ 0.909846] pci_bus 0000:06: resource 2 [mem
0x8000a0000-0x8000bfffff 64bit pref]
[ 0.910874] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dfffff]
[ 0.911750] pci_bus 0000:07: resource 2 [mem
0x8000c0000-0x8000dfffff 64bit pref]
[ 0.912740] pci_bus 0000:08: resource 1 [mem
0x10e00000-0x10ffffff]
[ 0.913552] pci_bus 0000:08: resource 2 [mem
0x8000e0000-0x8000fffff 64bit pref]
[ 0.914610] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111fffff]
[ 0.915490] pci_bus 0000:09: resource 2 [mem
0x800100000-0x80011fffff 64bit pref]
[ 0.916494] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 0.917257] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113fffff]
[ 0.918117] pci_bus 0000:0a: resource 2 [mem
0x800120000-0x80013fffff 64bit pref]
[ 0.919068] pci_bus 0000:0b: resource 0 [io 0xe000-0xffff]
[ 0.919846] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115fffff]
[ 0.920695] pci_bus 0000:0b: resource 2 [mem
0x800140000-0x80015fffff 64bit pref]
[ 0.921684] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 0.922414] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117fffff]
[ 0.923217] pci_bus 0000:0c: resource 2 [mem
0x800160000-0x80017fffff 64bit pref]
[ 0.924294] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
```

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[ 0.925056] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 0.925877] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.926900] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 0.927675] pci_bus 0000:0e: resource 1 [mem
0x11a00000-0x11bffffff]
[ 0.928334] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.929358] pci_bus 0000:0f: resource 0 [io 0xa000-0xaaff]
[ 0.930069] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dffffff]
[ 0.930877] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.931863] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 0.932602] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11ffffff]
[ 0.933398] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001ffffff 64bit pref]
[ 0.934385] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 0.935120] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121ffffff]
[ 0.935987] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.936973] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 0.937679] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123ffffff]
[ 0.938542] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.939581] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 0.940369] pci_bus 0000:13: resource 1 [mem
0x12400000-0x125ffffff]
[ 0.941231] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.942272] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 0.942992] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127ffffff]
[ 0.943838] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.944776] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 0.945472] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129ffffff]
[ 0.946246] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.947251] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 0.948013] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bffffff]
[ 0.948787] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 0.949827] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 0.950554] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dffffff]
[ 0.951309] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dffffff 64bit pref]
```

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[ 0.952317] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 0.953042] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12ffffff]
[ 0.953855] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 0.955233] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
[ 0.956023] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 0.956808] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 0.957580] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 0.958719] iommu: Default domain type: Translated
[ 0.959404] iommu: DMA domain TLB invalidation policy: strict
mode
[ 0.961123] SCSI subsystem initialized
[ 0.962031] vgaarb: loaded
[ 0.962991] ACPI: bus type USB registered
[ 0.963688] usbcore: registered new interface driver usbfs
[ 0.964375] usbcore: registered new interface driver hub
[ 0.965715] usbcore: registered new device driver usb
[ 0.966427] pps_core: LinuxPPS API ver. 1 registered
[ 0.967107] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 0.968239] PTP clock support registered
[ 0.968842] EDAC MC: Ver: 3.0.0
[ 0.970114] Registered efivars operations
[ 0.972315] NetLabel: Initializing
[ 0.972797] NetLabel: domain hash size = 128
[ 0.973411] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 0.974176] NetLabel: unlabeled traffic allowed by default
[ 0.975503] clocksource: Switched to clocksource arch_sys_counter
[ 0.985504] VFS: Disk quotas dquot_6.6.0
[ 0.986053] VFS: Dquot-cache hash table entries: 512 (order 0,
4096 bytes)
[ 0.987031] AppArmor: AppArmor Filesystem Enabled
[ 0.987744] pnp: PnP ACPI init
[ 0.988261] system 00:00: [mem 0x4010000000-0x401fffffff window]
could not be reserved
[ 0.989364] pnp: PnP ACPI: found 1 devices
[ 0.991635] NET: Registered PF_INET protocol family
[ 0.992711] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 0.996038] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 0.997363] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 0.998495] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.000157] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.001417] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.002755] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.003909] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
```

```
[ 1.005060] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.006244] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.007250] NET: Registered PF_XDP protocol family
[ 1.008203] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.009667] PCI: CLS 0 bytes, default 64
[ 1.010298] Trying to unpack rootfs image as initramfs...
[ 1.012702] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.013658] kvm [1]: HYP mode not available
[ 1.014260] Initialise system trusted keyrings
[ 1.014673] Key type blacklist registered
[ 1.016085] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.018186] zbud: loaded
[ 1.019145] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.020810] fuse: init (API version 7.34)
[ 1.021734] integrity: Platform Keyring initialized
[ 1.030916] Key type asymmetric registered
[ 1.031588] Asymmetric key parser 'x509' registered
[ 1.032540] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.033965] io scheduler mq-deadline registered
[ 1.035559] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.037778] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.039122] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.040196] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.043031] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.045472] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
[ 1.046722] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[ 1.047761] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.050546] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[ 1.055476] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[ 1.056790] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[ 1.057772] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.063293] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[ 1.064382] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[ 1.065093] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[ 1.066808] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.070255] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[ 1.071207] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[ 1.072274] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[ 1.073217] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.076480] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
```

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[ 1.077254] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[ 1.077579] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[ 1.078982] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.081318] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[ 1.083791] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[ 1.087269] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[ 1.089077] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.093528] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[ 1.095449] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[ 1.097400] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[ 1.098134] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.099860] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[ 1.100307] ACPI: \_SB_.PCI0.GSI1: Enabled at IRQ 36
[ 1.103261] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[ 1.104301] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[ 1.105150] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.108106] pcieport 0000:00:11.1: enabling device (0002 -> 0003)
[ 1.110792] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[ 1.112867] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[ 1.113650] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[ 1.115147] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.117623] pcieport 0000:00:11.2: enabling device (0002 -> 0003)
[ 1.118163] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[ 1.120426] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[ 1.122870] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[ 1.123724] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.125962] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[ 1.126663] pcieport 0000:00:11.3: enabling device (0002 -> 0003)
[ 1.129435] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.130464] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.131351] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.133667] pcieport 0000:00:11.4: enabling device (0002 -> 0003)
[ 1.135833] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[ 1.136730] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.137662] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[ 1.138784] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.142117] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[ 1.143118] pcieport 0000:00:11.5: enabling device (0002 -> 0003)
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[1.146769] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[1.148100] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[1.149178] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.151915] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[1.152411] pcieport 0000:00:11.6: enabling device (0002 -> 0003)
[1.155263] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[1.156663] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[1.157669] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.161156] pcieport 0000:00:11.7: enabling device (0002 -> 0003)
[1.163955] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[1.165405] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[1.166519] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[1.167179] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.169210] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[1.169293] ACPI: _SB_.PCI0.GSI2: Enabled at IRQ 37
[1.170617] pcieport 0000:00:12.0: enabling device (0002 -> 0003)
[1.172540] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[1.173569] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[1.174364] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.177270] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
[1.179668] pcieport 0000:00:12.1: enabling device (0002 -> 0003)
[1.183221] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[1.184345] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[1.185161] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.187578] pcieport 0000:00:12.2: enabling device (0002 -> 0003)
[1.189674] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[1.190573] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[1.191660] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[1.192484] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.194671] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[1.195721] pcieport 0000:00:12.3: enabling device (0002 -> 0003)
[1.198438] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[1.199540] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[1.200392] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.202616] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[1.203512] pcieport 0000:00:12.4: enabling device (0002 -> 0003)
[1.206090] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[1.207225] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[1.208896] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+


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NoCompl- IbPresDis- LLActRep+
[ 1.211066] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.211898] pcieport 0000:00:12.5: enabling device (0002 -> 0003)
[ 1.214301] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.215339] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[ 1.216219] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.218456] pcieport 0000:00:12.6: enabling device (0002 -> 0003)
[ 1.220554] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.221485] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.222617] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.223475] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.225743] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.226470] pcieport 0000:00:12.7: enabling device (0002 -> 0003)
[ 1.227990] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.229367] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.230239] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.232596] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.234239] input: Power Button as /devices/LNXSYSTM:00/
LNXXSYBUS:00/PNP0C0C:00/input/input0
[ 1.235479] ACPI: button: Power Button [PWRB]
[ 1.239234] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.240195] virtio-pci 0000:00:03.0: enabling device (0000 ->
0002)
[ 1.243466] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.245759] msm_serial: driver initialized
[ 1.246676] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.249213] loop: module loaded
[ 1.250526] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.251823] tun: Universal TUN/TAP device driver, 1.6
[ 1.252756] PPP generic driver version 2.4.2
[ 1.253626] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.254771] ehci-pci: EHCI PCI platform driver
[ 1.255456] ehci-orion: EHCI orion driver
[ 1.256072] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.257187] ohci-pci: OHCI PCI platform driver
[ 1.257867] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.258907] mousedev: PS/2 mouse device common for all mice
[ 1.260820] rtc-efi rtc-efi.0: registered as rtc0
[ 1.261582] rtc-efi rtc-efi.0: setting system clock to
2022-11-27T01:22:28 UTC (1669512148)
[ 1.262881] i2c_dev: i2c /dev entries driver
[ 1.263858] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is

```

disabled. Duplicate IMA measurements will not be recorded in the IMA log.

```
[ 1.265799] device-mapper: uevent: version 1.0.3
[ 1.266714] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.268282] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.269461] drop_monitor: Initializing network drop monitor
service
[ 1.270559] NET: Registered PF_INET6 protocol family
[ 1.296965] Freeing initrd memory: 29520K
[ 1.316685] Segment Routing with IPv6
[ 1.318300] In-situ OAM (IOAM) with IPv6
[ 1.319139] NET: Registered PF_PACKET protocol family
[ 1.320254] Key type dns_resolver registered
[ 1.321218] registered taskstats version 1
[ 1.322308] Loading compiled-in X.509 certificates
[ 1.323978] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.325896] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.327834] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.329247] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.330196] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.332171] zswap: loaded using pool lzo/zbud
[ 1.333101] Key type ._fscrypt registered
[ 1.333656] Key type .fscrypt registered
[ 1.334227] Key type fscrypt-provisioning registered
[ 1.352276] cryptd: max_cpu_qlen set to 1000
[ 1.364047] Key type encrypted registered
[ 1.365182] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.366817] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.369065] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.372580] ima: No TPM chip found, activating TPM-bypass!
[ 1.374256] Loading compiled-in module X.509 certificates
[ 1.376542] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.380517] ima: Allocated hash algorithm: sha1
[ 1.382234] ima: No architecture policies found
[ 1.384318] evm: Initialising EVM extended attributes:
[ 1.385367] evm: security.selinux
[ 1.385928] evm: security.SMACK64
[ 1.386519] evm: security.SMACK64EXEC
[ 1.387191] evm: security.SMACK64TRANSMUTE
[ 1.388527] evm: security.SMACK64MMAP
[ 1.389828] evm: security.apparmor
[ 1.391071] evm: security.ima
[ 1.392198] evm: security.capability
[ 1.393560] evm: HMAC attrs: 0x1
[ 1.397599] Freeing unused kernel memory: 9536K
```

```
[ 1.472261] Checked W+X mappings: passed, no W+X pages found
[ 1.474341] Run /init as init process
[ 1.665592] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.667399] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.672786] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 1.681944] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.682616] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.683814] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.684916] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.686409] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.687696] usb usb1: Product: xHCI Host Controller
[ 1.688504] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.689861] usb usb1: SerialNumber: 0000:00:02.0
[ 1.697507] hub 1-0:1.0: USB hub found
[ 1.698276] hub 1-0:1.0: 4 ports detected
[ 1.706981] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.708907] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.710559] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.711905] usb usb2: Product: xHCI Host Controller
[ 1.712737] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.713816] usb usb2: SerialNumber: 0000:00:02.0
[ 1.725430] hub 2-0:1.0: USB hub found
[ 1.727915] hub 2-0:1.0: 4 ports detected
[ 1.731729] scsi host0: Virtio SCSI HBA
[ 1.735342] scsi 0:0:0:1: Direct-Access ORACLE BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.738598] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 1.741819] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.747006] [drm] number of scanouts: 1
[ 1.747717] [drm] number of cap sets: 0
[ 1.748994] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 1.752106] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 1.752115] Console: switching to colour frame buffer device
128x48
[ 1.757179] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 1.764398] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.766495] sd 0:0:0:1: Power-on or device reset occurred
[ 1.770074] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
```

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[ 1.773603] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.775467] sd 0:0:0:1: [sda] Write Protect is off
[ 1.777243] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.779677] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.815131] sda: sda1 sda15
[ 1.818970] virtio_net virtio1 enp0s3: renamed from eth0
[ 1.834176] sd 0:0:0:1: [sda] Attached SCSI disk
[ 2.043540] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.187516] raid6: neonx8 gen() 13672 MB/s
[ 2.200299] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.201474] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 2.203678] usb 1-1: Product: QEMU USB Tablet
[ 2.204482] usb 1-1: Manufacturer: QEMU
[ 2.205153] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 2.255541] raid6: neonx8 xor() 10692 MB/s
[ 2.323528] raid6: neonx4 gen() 13480 MB/s
[ 2.335530] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 2.391522] raid6: neonx4 xor() 11228 MB/s
[ 2.459525] raid6: neonx2 gen() 12886 MB/s
[ 2.484170] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.485941] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 2.487786] usb 1-2: Product: QEMU USB Keyboard
[ 2.489219] usb 1-2: Manufacturer: QEMU
[ 2.490464] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
[ 2.527521] raid6: neonx2 xor() 10163 MB/s
[ 2.595533] raid6: neonx1 gen() 10613 MB/s
[ 2.615601] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
found
[ 2.623547] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
[ 2.643564] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 2.651584] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 2.663521] raid6: neonx1 xor() 8554 MB/s
[ 2.675587] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 2.679797] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 2.707561] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 2.719564] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 2.723569] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 2.731527] raid6: int64x8 gen() 6287 MB/s
[ 2.739556] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
```

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found
[ 2.755552] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 2.755620] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 2.780253] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.782097] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 2.783631] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 2.783989] usb 1-3: Product: QEMU USB Mouse
[ 2.786684] usb 1-3: Manufacturer: QEMU
[ 2.787936] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 2.789488] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 2.797538] hid: raw HID events driver (C) Jiri Kosina
[ 2.799519] raid6: int64x8 xor() 3531 MB/s
[ 2.800844] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 2.809946] usbcore: registered new interface driver usbhid
[ 2.813876] usbhid: USB HID core driver
[ 2.819766] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 2.822424] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 2.825491] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 2.828091] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 2.829615] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 2.847580] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 2.867527] raid6: int64x4 gen() 7018 MB/s
[ 2.879599] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 2.896042] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 2.900334] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 2.903241] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 2.935520] raid6: int64x4 xor() 3770 MB/s
[ 3.003523] raid6: int64x2 gen() 6170 MB/s
[ 3.071529] raid6: int64x2 xor() 3328 MB/s
[ 3.139523] raid6: int64x1 gen() 5061 MB/s
[ 3.207526] raid6: int64x1 xor() 2650 MB/s
[ 3.208673] raid6: using algorithm neonx8 gen() 13672 MB/s
[ 3.209969] raid6: .... xor() 10692 MB/s, rmw enabled
```

```
[ 3.211182] raid6: using neon recovery algorithm
[ 3.215162] xor: measuring software checksum speed
[ 3.217293]   8regs           : 17297 MB/sec
[ 3.219233]   32regs          : 20739 MB/sec
[ 3.221180]   arm64_neon     : 27835 MB/sec
[ 3.222438] xor: using function: arm64_neon (27835 MB/sec)
[ 3.225392] async_tx: api initialized (async)
[ 3.292263] No iBFT detected.
[ 3.408729] Loading iSCSI transport class v2.0-870.
[ 3.418843] iscsi: registered transport (tcp)
[ 3.510070] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 3.622587] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 3.767559] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 3.799561] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 3.827542] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 3.855549] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
found
[ 3.895973] systemd[1]: Inserted module 'autofs4'
[ 3.907552] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
[ 3.934370] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
[ 3.940865] systemd[1]: Detected virtualization kvm.
[ 3.942520] systemd[1]: Detected architecture arm64.
[ 3.950231] systemd[1]: Hostname set to <ubuntu>.
[ 4.080865] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 4.390306] systemd[1]: Queued start job for default target
Graphical Interface.
[ 4.395454] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.432767] systemd[1]: Created slice Slice /system/modprobe.
[ 4.436914] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.442048] systemd[1]: Created slice Slice /system/postfix.
[ 4.445769] systemd[1]: Created slice Slice /system/serial-getty.
[ 4.448412] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 4.450802] systemd[1]: Created slice User and Session Slice.
[ 4.453007] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 4.455832] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 4.459805] systemd[1]: Reached target Slice Units.
[ 4.462140] systemd[1]: Reached target Local Verity Protected
Volumes.
```

```
[ 4.464921] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 4.467723] systemd[1]: Listening on LVM2 poll daemon socket.
[ 4.479956] systemd[1]: Listening on multipathd control socket.
[ 4.489247] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 4.494876] systemd[1]: Listening on Syslog Socket.
[ 4.508018] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 4.513448] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 4.522141] systemd[1]: Listening on Journal Audit Socket.
[ 4.524726] systemd[1]: Listening on Journal Socket (/dev/log).
[ 4.527328] systemd[1]: Listening on Journal Socket.
[ 4.537361] systemd[1]: Listening on Network Service Netlink
Socket.
[ 4.540426] systemd[1]: Listening on udev Control Socket.
[ 4.543666] systemd[1]: Listening on udev Kernel Socket.
[ 4.568652] systemd[1]: Mounting Huge Pages File System...
[ 4.575965] systemd[1]: Mounting POSIX Message Queue File
System...
[ 4.588703] systemd[1]: Mounting Kernel Debug File System...
[ 4.593937] systemd[1]: Mounting Kernel Trace File System...
[ 4.608524] systemd[1]: Starting Journal Service...
[ 4.612057] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 4.616800] systemd[1]: Starting Set the console keyboard
layout...
[ 4.620748] systemd[1]: Starting Create List of Static Device
Nodes...
[ 4.629487] systemd[1]: Starting Monitoring of LVM2 mirrors,
snapshots etc. using dmeventd or progress polling...
[ 4.642668] systemd[1]: Condition check resulted in LXDMonitoring
being skipped.
[ 4.663982] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 4.672658] systemd[1]: Starting Load Kernel Module configs...
[ 4.677864] systemd[1]: Starting Load Kernel Module drm...
[ 4.685035] systemd[1]: Starting Load Kernel Module efi_pstore...
[ 4.692694] systemd[1]: Starting Load Kernel Module fuse...
[ 4.703293] pstore: Using crash dump compression: deflate
[ 4.703300] pstore: Registered efi as persistent store backend
[ 4.712432] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 4.726851] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 4.737316] systemd[1]: Starting Load Kernel Module ramoops...
[ 4.739603] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 4.741741] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 4.746963] systemd[1]: Starting Load Kernel Modules...
[ 4.758168] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 4.762098] systemd[1]: Starting Coldplug All udev Devices...
```

```
[ 4.767732] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 4.771299] systemd[1]: Started Journal Service.
[ 4.824539] alua: device handler registered
[ 4.827268] Adding 5242876k swap on /swapfile. Priority:-2
extents:3 across:5505020k FS
[ 4.832605] emc: device handler registered
[ 4.837801] rdac: device handler registered
[ 4.840524] systemd-journald[517]: Received client request to
flush runtime journal.
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

```
ubuntu login: [ 1033.339595] reboot: Restarting system
[2J[01;01H[=3h[2J[01;01HEFI stub: Booting Linux Kernel...
EFI stub: EFI_RNG_PROTOCOL unavailable
EFI stub: Using DTB from configuration table
EFI stub: Exiting boot services...
[ 0.000000] Booting Linux on physical CPU 0x0000000000
[0x413fd0c1]
[ 0.000000] Linux version 5.15.0-1022-oracle (buildd@bos02-
arm64-059) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #28-Ubuntu SMP Wed Oct 26 09:38:30 UTC
2022 (Ubuntu 5.15.0-1022.28-oracle 5.15.64)
[ 0.000000] efi: EFI v2.70 by EDK II
[ 0.000000] efi: SMBIOS 3.0=0x63bed0000 MEMATTR=0x63aa67018 ACPI
2.0=0x6385c0018 MOKvar=0x63aa69000 MEMRESERVE=0x638b41798
[ 0.000000] secureboot: Secure boot disabled
[ 0.000000] ACPI: Early table checksum verification disabled
[ 0.000000] ACPI: RSDP 0x00000006385C0018 000024 (v02 BOCHS )
[ 0.000000] ACPI: XSDT 0x00000006385CFE98 00005C (v01 BOCHS
BXPCFACP 00000001 01000013)
[ 0.000000] ACPI: FACP 0x00000006385CFA98 00010C (v05 BOCHS
BXPCFACP 00000001 BXPC 00000001)
[ 0.000000] ACPI: DSDT 0x00000006385C7518 0015B6 (v02 BOCHS
BXPCDSDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: APIC 0x00000006385CFC18 000198 (v03 BOCHS
BXPCAPIC 00000001 BXPC 00000001)
[ 0.000000] ACPI: GTDT 0x00000006385CD898 000060 (v02 BOCHS
BXPCGTDT 00000001 BXPC 00000001)
[ 0.000000] ACPI: MCFG 0x00000006385CFF98 00003C (v01 BOCHS
BXPCMCFG 00000001 BXPC 00000001)
[ 0.000000] ACPI: SPCR 0x00000006385CE818 000050 (v02 BOCHS
BXPCSPCR 00000001 BXPC 00000001)
[ 0.000000] ACPI: IORT 0x00000006385CE898 00007C (v00 BOCHS
BXPCIORT 00000001 BXPC 00000001)
[ 0.000000] ACPI: BGRT 0x00000006385CE418 000038 (v01 INTEL EDK2
00000002 01000013)
[ 0.000000] ACPI: SPCR: console: pl011,mmio,0x9000000,9600
[ 0.000000] NUMA: Failed to initialise from firmware
[ 0.000000] NUMA: Faking a node at [mem
0x0000000040000000-0x000000063fffffff]
[ 0.000000] NUMA: NODE_DATA [mem 0x63cfe9f80-0x63cfeefff]
```



```

[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem
0x0000000040000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem
0x0000000010000000-0x0000000063ffffffff]
[ 0.000000] Device empty
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem
0x0000000040000000-0x000000006386affff]
[ 0.000000] node 0: [mem
0x000000006386b0000-0x00000000638b3ffff]
[ 0.000000] node 0: [mem
0x00000000638b40000-0x0000000063be1ffff]
[ 0.000000] node 0: [mem
0x0000000063be20000-0x0000000063beaffff]
[ 0.000000] node 0: [mem
0x0000000063beb0000-0x0000000063bebffff]
[ 0.000000] node 0: [mem
0x0000000063bec0000-0x0000000063bfdffff]
[ 0.000000] node 0: [mem
0x0000000063bfe0000-0x0000000063ffffffff]
[ 0.000000] Initmem setup node 0 [mem
0x0000000040000000-0x0000000063ffffffff]
[ 0.000000] cma: Reserved 32 MiB at 0x00000000fe000000
[ 0.000000] psci: probing for conduit method from ACPI.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: Trusted OS migration not required
[ 0.000000] psci: SMC Calling Convention v1.1
[ 0.000000] ACPI: SRAT not present
[ 0.000000] percpu: Embedded 30 pages/cpu s83352 r8192 d31336
u122880
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU
interface
[ 0.000000] CPU features: detected: Hardware dirty bit management
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: kernel page table isolation forced ON
by KASLR
[ 0.000000] CPU features: detected: Kernel page table isolation
(KPTI)
[ 0.000000] CPU features: detected: ARM erratum 1418040
[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 6193152
[ 0.000000] Policy zone: Normal
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/
vmlinuz-5.15.0-1022-oracle root=UUID=0bd58676-802a-4798-
bad4-49015a05080f ro console=tty1 console=ttyS0
nvme.shutdown_timeout=10 libiscsi.debug_libiscsi_ah=1
crash_kexec_post_notifiers
[ 0.000000] Unknown kernel command line parameters "BOOT_IMAGE=/

```

```
boot/vmlinuz-5.15.0-1022-oracle", will be passed to user space.
[ 0.000000] Dentry cache hash table entries: 4194304 (order: 13,
33554432 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 2097152 (order: 12,
16777216 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:on, heap
free:off
[ 0.000000] software IO TLB: mapped [mem
0x00000000fa000000-0x00000000fe000000] (64MB)
[ 0.000000] Memory: 24491956K/25165824K available (17280K kernel
code, 4554K rdata, 13852K rodata, 9536K init, 1191K bss, 641100K
reserved, 32768K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4,
Nodes=1
[ 0.000000] ftrace: allocating 54024 entries in 212 pages
[ 0.000000] ftrace: allocated 212 pages with 4 groups
[ 0.000000] trace event string verifier disabled
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU restricting CPUs from NR_CPUS=256 to
nr_cpu_ids=4.
[ 0.000000] Rude variant of Tasks RCU enabled.
[ 0.000000] Tracing variant of Tasks RCU enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
[ 0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16,
nr_cpu_ids=4
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: 256 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] Root IRQ handler: gic_handle_irq
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region
0:0x00000000080a0000
[ 0.000000] ACPI: SRAT not present
[ 0.000000] ITS [mem 0x08080000-0x0809ffff]
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Devices
@1001d0000 (indirect, esz 8, psz 64K, shr 1)
[ 0.000000] ITS@0x0000000008080000: allocated 8192 Interrupt
Collections @1001e0000 (flat, esz 8, psz 64K, shr 1)
[ 0.000000] GICv3: using LPI property table @0x00000001001f0000
[ 0.000000] GICv3: CPU0: using allocated LPI pending table
@0x0000000100200000
[ 0.000000] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.000000] arch_timer: cp15 timer(s) running at 25.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x5c40939b5, max_idle_ns: 440795202646 ns
[ 0.000000] sched_clock: 56 bits at 25MHz, resolution 40ns, wraps
every 4398046511100ns
[ 0.000948] Console: colour dummy device 80x25
[ 0.001035] printk: console [tty1] enabled
[ 0.001208] ACPI: Core revision 20210730
[ 0.001402] Calibrating delay loop (skipped), value calculated
```

```
using timer frequency.. 50.00 BogoMIPS (lpj=100000)
[ 0.001406] pid_max: default: 32768 minimum: 301
[ 0.001599] LSM: Security Framework initializing
[ 0.001608] landlock: Up and running.
[ 0.001609] Yama: becoming mindful.
[ 0.002226] AppArmor: AppArmor initialized
[ 0.003035] Mount-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.003070] Mountpoint-cache hash table entries: 65536 (order: 7,
524288 bytes, linear)
[ 0.006482] ACPI PPTT: No PPTT table found, CPU and cache
topology may be inaccurate
[ 0.006640] rcu: Hierarchical SRCU implementation.
[ 0.006851] Platform MSI: ITS@0x8080000 domain created
[ 0.007005] PCI/MSI: ITS@0x8080000 domain created
[ 0.007157] fsl-mc MSI: ITS@0x8080000 domain created
[ 0.007313] Remapping and enabling EFI services.
[ 0.007842] smp: Bringing up secondary CPUs ...
[ 0.022503] Detected PIPT I-cache on CPU1
[ 0.022530] GICv3: CPU1: found redistributor 1 region
0:0x000000000080c0000
[ 0.022588] GICv3: CPU1: using allocated LPI pending table
@0x00000000100210000
[ 0.022601] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.022619] CPU1: Booted secondary processor 0x0000000001
[0x413fd0c1]
[ 0.036972] Detected PIPT I-cache on CPU2
[ 0.036995] GICv3: CPU2: found redistributor 2 region
0:0x000000000080e0000
[ 0.037057] GICv3: CPU2: using allocated LPI pending table
@0x00000000100220000
[ 0.037070] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.037089] CPU2: Booted secondary processor 0x0000000002
[0x413fd0c1]
[ 0.051583] Detected PIPT I-cache on CPU3
[ 0.051608] GICv3: CPU3: found redistributor 3 region
0:0x00000000008100000
[ 0.051668] GICv3: CPU3: using allocated LPI pending table
@0x00000000100230000
[ 0.051683] arch_timer: Enabling local workaround for ARM erratum
1418040
[ 0.051701] CPU3: Booted secondary processor 0x0000000003
[0x413fd0c1]
[ 0.051786] smp: Brought up 1 node, 4 CPUs
[ 0.051812] SMP: Total of 4 processors activated.
[ 0.051814] CPU features: detected: 32-bit EL0 Support
[ 0.051816] CPU features: detected: Data cache clean to the PoU
not required for I/D coherence
[ 0.051818] CPU features: detected: Common not Private
translations
[ 0.051820] CPU features: detected: CRC32 instructions
[ 0.051821] CPU features: detected: Data cache clean to Point of
```

Persistence

```
[ 0.051823] CPU features: detected: RCpc load-acquire (LDAPR)
[ 0.051825] CPU features: detected: LSE atomic instructions
[ 0.051827] CPU features: detected: Privileged Access Never
[ 0.051829] CPU features: detected: RAS Extension Support
[ 0.051981] CPU features: detected: Speculative Store Bypassing
Safe (SSBS)
[ 0.161362] CPU: All CPU(s) started at EL1
[ 0.161411] alternatives: patching kernel code
[ 0.163403] devtmpfs: initialized
[ 0.165213] Registered cp15_barrier emulation handler
[ 0.165232] Registered setend emulation handler
[ 0.165235] KASLR disabled due to lack of seed
[ 0.165276] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
[ 0.165286] futex hash table entries: 1024 (order: 4, 65536
bytes, linear)
[ 0.165744] pinctrl core: initialized pinctrl subsystem
[ 0.166926] SMBIOS 3.0.0 present.
[ 0.166930] DMI: QEMU KVM Virtual Machine, BIOS 1.5.1 06/16/2021
[ 0.168029] NET: Registered PF_NETLINK/PF_ROUTE protocol family
[ 0.170301] DMA: preallocated 4096 KiB GFP_KERNEL pool for atomic
allocations
[ 0.170539] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA pool
for atomic allocations
[ 0.170901] DMA: preallocated 4096 KiB GFP_KERNEL|GFP_DMA32 pool
for atomic allocations
[ 0.170914] audit: initializing netlink subsys (disabled)
[ 0.171081] audit: type=2000 audit(0.168:1): state=initialized
audit_enabled=0 res=1
[ 0.171822] thermal_sys: Registered thermal governor 'fair_share'
[ 0.171824] thermal_sys: Registered thermal governor 'bang_bang'
[ 0.171828] thermal_sys: Registered thermal governor 'step_wise'
[ 0.171829] thermal_sys: Registered thermal governor 'user_space'
[ 0.171831] thermal_sys: Registered thermal governor
'power_allocator'
[ 0.171844] cpuidle: using governor ladder
[ 0.171849] cpuidle: using governor menu
[ 0.171881] hw-breakpoint: found 6 breakpoint and 4 watchpoint
registers.
[ 0.171956] ASID allocator initialised with 32768 entries
[ 0.172169] ACPI: bus type PCI registered
[ 0.172317] acpiphp: ACPI Hot Plug PCI Controller Driver version:
0.5
[ 0.172553] Serial: AMBA PL011 UART driver
[ 0.174528] HugeTLB registered 1.00 GiB page size, pre-allocated
0 pages
[ 0.174532] HugeTLB registered 32.0 MiB page size, pre-allocated
0 pages
[ 0.174534] HugeTLB registered 2.00 MiB page size, pre-allocated
0 pages
[ 0.174536] HugeTLB registered 64.0 KiB page size, pre-allocated
0 pages
[ 0.177241] fbcon: Taking over console
```

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[ 0.177258] ACPI: Added _OSI(Module Device)
[ 0.177259] ACPI: Added _OSI(Processor Device)
[ 0.177260] ACPI: Added _OSI(3.0 _SCP Extensions)
[ 0.177261] ACPI: Added _OSI(Processor Aggregator Device)
[ 0.177262] ACPI: Added _OSI(Linux-Dell-Video)
[ 0.177262] ACPI: Added _OSI(Linux-Lenovo-NV-HDMI-Audio)
[ 0.177263] ACPI: Added _OSI(Linux-HPI-Hybrid-Graphics)
[ 0.177845] ACPI: 1 ACPI AML tables successfully acquired and
loaded
[ 0.178165] ACPI: Interpreter enabled
[ 0.178171] ACPI: Using GIC for interrupt routing
[ 0.178179] ACPI: MCFG table detected, 1 entries
[ 0.180664] ARMH0011:00: ttyAMA0 at MMIO 0x9000000 (irq = 12,
base_baud = 0) is a SBSA
[ 0.352070] printk: console [ttyAMA0] enabled
[ 0.354002] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-
ff])
[ 0.355005] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig
ASPM ClockPM Segments MSI EDR HPX-Type3]
[ 0.356431] acpi PNP0A08:00: _OSC: platform does not support
[SHPCHotplug LTR DPC]
[ 0.357563] acpi PNP0A08:00: _OSC: OS now controls [PCIEHotplug
PME AER PCIeCapability]
[ 0.358915] acpi PNP0A08:00: ECAM area [mem
0x4010000000-0x401ffffffff] reserved by PNP0C02:00
[ 0.360314] acpi PNP0A08:00: ECAM at [mem
0x4010000000-0x401ffffffff] for [bus 00-ff]
[ 0.361447] ACPI: Remapped I/O 0x000000003eff0000 to [io
0x0000-0xffff window]
[ 0.362868] PCI host bridge to bus 0000:00
[ 0.363474] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 0.364256] pci_bus 0000:00: root bus resource [io 0x0000-0xffff
window]
[ 0.365240] pci_bus 0000:00: root bus resource [mem
0x100000000-0x3efefffff window]
[ 0.366291] pci_bus 0000:00: root bus resource [mem
0x8000000000-0xfffffffffff window]
[ 0.367472] pci 0000:00:00.0: [1b36:0008] type 00 class 0x060000
[ 0.368574] pci 0000:00:01.0: [1af4:1050] type 00 class 0x038000
[ 0.371138] pci 0000:00:01.0: reg 0x14: [mem
0x13019000-0x13019fff]
[ 0.374243] pci 0000:00:01.0: reg 0x20: [mem
0x8030000000-0x8030003fff 64bit pref]
[ 0.376270] pci 0000:00:02.0: [1b36:000d] type 00 class 0x0c0330
[ 0.377165] pci 0000:00:02.0: reg 0x10: [mem
0x8030008000-0x803000bfff 64bit]
[ 0.378475] pci 0000:00:03.0: [1af4:1041] type 00 class 0x020000
[ 0.379401] pci 0000:00:03.0: reg 0x14: [mem
0x13018000-0x13018fff]
[ 0.381214] pci 0000:00:03.0: reg 0x20: [mem
0x8030004000-0x8030007fff 64bit pref]
[ 0.382599] pci 0000:00:10.0: [1b36:000c] type 01 class 0x060400
[ 0.384692] pci 0000:00:10.0: reg 0x10: [mem
0x13017000-0x13017fff]
```

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[ 0.387939] pci 0000:00:10.1: [1b36:000c] type 01 class 0x060400
[ 0.390096] pci 0000:00:10.1: reg 0x10: [mem
0x13016000-0x13016fff]
[ 0.394103] pci 0000:00:10.2: [1b36:000c] type 01 class 0x060400
[ 0.396193] pci 0000:00:10.2: reg 0x10: [mem
0x13015000-0x13015fff]
[ 0.399579] pci 0000:00:10.3: [1b36:000c] type 01 class 0x060400
[ 0.402767] pci 0000:00:10.3: reg 0x10: [mem
0x13014000-0x13014fff]
[ 0.406035] pci 0000:00:10.4: [1b36:000c] type 01 class 0x060400
[ 0.408161] pci 0000:00:10.4: reg 0x10: [mem
0x13013000-0x13013fff]
[ 0.411505] pci 0000:00:10.5: [1b36:000c] type 01 class 0x060400
[ 0.414563] pci 0000:00:10.5: reg 0x10: [mem
0x13012000-0x13012fff]
[ 0.417893] pci 0000:00:10.6: [1b36:000c] type 01 class 0x060400
[ 0.419895] pci 0000:00:10.6: reg 0x10: [mem
0x13011000-0x13011fff]
[ 0.423095] pci 0000:00:10.7: [1b36:000c] type 01 class 0x060400
[ 0.426190] pci 0000:00:10.7: reg 0x10: [mem
0x13010000-0x13010fff]
[ 0.429340] pci 0000:00:11.0: [1b36:000c] type 01 class 0x060400
[ 0.431322] pci 0000:00:11.0: reg 0x10: [mem
0x1300f000-0x1300ffff]
[ 0.434613] pci 0000:00:11.1: [1b36:000c] type 01 class 0x060400
[ 0.437764] pci 0000:00:11.1: reg 0x10: [mem
0x1300e000-0x1300efff]
[ 0.441012] pci 0000:00:11.2: [1b36:000c] type 01 class 0x060400
[ 0.443020] pci 0000:00:11.2: reg 0x10: [mem
0x1300d000-0x1300dfff]
[ 0.447053] pci 0000:00:11.3: [1b36:000c] type 01 class 0x060400
[ 0.449104] pci 0000:00:11.3: reg 0x10: [mem
0x1300c000-0x1300cfff]
[ 0.452231] pci 0000:00:11.4: [1b36:000c] type 01 class 0x060400
[ 0.454174] pci 0000:00:11.4: reg 0x10: [mem
0x1300b000-0x1300bfff]
[ 0.458305] pci 0000:00:11.5: [1b36:000c] type 01 class 0x060400
[ 0.460297] pci 0000:00:11.5: reg 0x10: [mem
0x1300a000-0x1300afff]
[ 0.463444] pci 0000:00:11.6: [1b36:000c] type 01 class 0x060400
[ 0.465388] pci 0000:00:11.6: reg 0x10: [mem
0x13009000-0x13009fff]
[ 0.469671] pci 0000:00:11.7: [1b36:000c] type 01 class 0x060400
[ 0.471683] pci 0000:00:11.7: reg 0x10: [mem
0x13008000-0x13008fff]
[ 0.474940] pci 0000:00:12.0: [1b36:000c] type 01 class 0x060400
[ 0.476936] pci 0000:00:12.0: reg 0x10: [mem
0x13007000-0x13007fff]
[ 0.481500] pci 0000:00:12.1: [1b36:000c] type 01 class 0x060400
[ 0.483991] pci 0000:00:12.1: reg 0x10: [mem
0x13006000-0x13006fff]
[ 0.487213] pci 0000:00:12.2: [1b36:000c] type 01 class 0x060400
[ 0.489254] pci 0000:00:12.2: reg 0x10: [mem
0x13005000-0x13005fff]
```

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[ 0.493512] pci 0000:00:12.3: [1b36:000c] type 01 class 0x060400
[ 0.495522] pci 0000:00:12.3: reg 0x10: [mem
0x13004000-0x13004fff]
[ 0.498690] pci 0000:00:12.4: [1b36:000c] type 01 class 0x060400
[ 0.500690] pci 0000:00:12.4: reg 0x10: [mem
0x13003000-0x13003fff]
[ 0.504947] pci 0000:00:12.5: [1b36:000c] type 01 class 0x060400
[ 0.506805] pci 0000:00:12.5: reg 0x10: [mem
0x13002000-0x13002fff]
[ 0.510260] pci 0000:00:12.6: [1b36:000c] type 01 class 0x060400
[ 0.513306] pci 0000:00:12.6: reg 0x10: [mem
0x13001000-0x13001fff]
[ 0.516486] pci 0000:00:12.7: [1b36:000c] type 01 class 0x060400
[ 0.518499] pci 0000:00:12.7: reg 0x10: [mem
0x13000000-0x13000fff]
[ 0.535306] pci 0000:18:00.0: [1af4:1048] type 00 class 0x010000
[ 0.537431] pci 0000:18:00.0: reg 0x14: [mem
0x10000000-0x10000fff]
[ 0.540095] pci 0000:18:00.0: reg 0x20: [mem
0x802e000000-0x802e003fff 64bit pref]
[ 0.552623] pci 0000:00:10.0: bridge window [io 0x1000-0x0fff]
to [bus 01] add_size 1000
[ 0.553886] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 01] add_size 200000
add_align 100000
[ 0.555590] pci 0000:00:10.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 01] add_size 200000 add_align 100000
[ 0.558200] pci 0000:00:10.1: bridge window [io 0x1000-0x0fff]
to [bus 02] add_size 1000
[ 0.559375] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 02] add_size 200000
add_align 100000
[ 0.561016] pci 0000:00:10.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 02] add_size 200000 add_align 100000
[ 0.562491] pci 0000:00:10.2: bridge window [io 0x1000-0x0fff]
to [bus 03] add_size 1000
[ 0.563649] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 03] add_size 200000
add_align 100000
[ 0.565302] pci 0000:00:10.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 03] add_size 200000 add_align 100000
[ 0.566814] pci 0000:00:10.3: bridge window [io 0x1000-0x0fff]
to [bus 04] add_size 1000
[ 0.568710] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 04] add_size 200000
add_align 100000
[ 0.570302] pci 0000:00:10.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 04] add_size 200000 add_align 100000
[ 0.571740] pci 0000:00:10.4: bridge window [io 0x1000-0x0fff]
to [bus 05] add_size 1000
[ 0.572907] pci 0000:00:10.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 05] add_size 200000
add_align 100000
[ 0.574536] pci 0000:00:10.4: bridge window [mem
```

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0x00100000-0x000ffffff] to [bus 05] add_size 200000 add_align 100000
[ 0.576011] pci 0000:00:10.5: bridge window [io 0x1000-0x0fff]
to [bus 06] add_size 1000
[ 0.577231] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 06] add_size 200000
add_align 100000
[ 0.578858] pci 0000:00:10.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 06] add_size 200000 add_align 100000
[ 0.580378] pci 0000:00:10.6: bridge window [io 0x1000-0x0fff]
to [bus 07] add_size 1000
[ 0.581604] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 07] add_size 200000
add_align 100000
[ 0.583324] pci 0000:00:10.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 07] add_size 200000 add_align 100000
[ 0.584793] pci 0000:00:10.7: bridge window [io 0x1000-0x0fff]
to [bus 08] add_size 1000
[ 0.585965] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 08] add_size 200000
add_align 100000
[ 0.587694] pci 0000:00:10.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 08] add_size 200000 add_align 100000
[ 0.589157] pci 0000:00:11.0: bridge window [io 0x1000-0x0fff]
to [bus 09] add_size 1000
[ 0.590275] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 09] add_size 200000
add_align 100000
[ 0.591899] pci 0000:00:11.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 09] add_size 200000 add_align 100000
[ 0.593387] pci 0000:00:11.1: bridge window [io 0x1000-0x0fff]
to [bus 0a] add_size 1000
[ 0.594528] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0a] add_size 200000
add_align 100000
[ 0.596163] pci 0000:00:11.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 0a] add_size 200000 add_align 100000
[ 0.597672] pci 0000:00:11.2: bridge window [io 0x1000-0x0fff]
to [bus 0b] add_size 1000
[ 0.598786] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0b] add_size 200000
add_align 100000
[ 0.600355] pci 0000:00:11.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 0b] add_size 200000 add_align 100000
[ 0.601806] pci 0000:00:11.3: bridge window [io 0x1000-0x0fff]
to [bus 0c] add_size 1000
[ 0.602876] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0c] add_size 200000
add_align 100000
[ 0.604319] pci 0000:00:11.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 0c] add_size 200000 add_align 100000
[ 0.605988] pci 0000:00:11.4: bridge window [io 0x1000-0x0fff]
to [bus 0d] add_size 1000
[ 0.607124] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0d] add_size 200000
```



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add_align 100000
[ 0.608742] pci 0000:00:11.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 0d] add_size 200000 add_align 100000
[ 0.610268] pci 0000:00:11.5: bridge window [io 0x1000-0x0fff]
to [bus 0e] add_size 1000
[ 0.611436] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0e] add_size 200000
add_align 100000
[ 0.613087] pci 0000:00:11.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 0e] add_size 200000 add_align 100000
[ 0.614553] pci 0000:00:11.6: bridge window [io 0x1000-0x0fff]
to [bus 0f] add_size 1000
[ 0.615715] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 0f] add_size 200000
add_align 100000
[ 0.617378] pci 0000:00:11.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 0f] add_size 200000 add_align 100000
[ 0.618898] pci 0000:00:11.7: bridge window [io 0x1000-0x0fff]
to [bus 10] add_size 1000
[ 0.620079] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 10] add_size 200000
add_align 100000
[ 0.621703] pci 0000:00:11.7: bridge window [mem
0x00100000-0x000ffffff] to [bus 10] add_size 200000 add_align 100000
[ 0.623183] pci 0000:00:12.0: bridge window [io 0x1000-0x0fff]
to [bus 11] add_size 1000
[ 0.624337] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 11] add_size 200000
add_align 100000
[ 0.626063] pci 0000:00:12.0: bridge window [mem
0x00100000-0x000ffffff] to [bus 11] add_size 200000 add_align 100000
[ 0.627569] pci 0000:00:12.1: bridge window [io 0x1000-0x0fff]
to [bus 12] add_size 1000
[ 0.628785] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 12] add_size 200000
add_align 100000
[ 0.630404] pci 0000:00:12.1: bridge window [mem
0x00100000-0x000ffffff] to [bus 12] add_size 200000 add_align 100000
[ 0.631960] pci 0000:00:12.2: bridge window [io 0x1000-0x0fff]
to [bus 13] add_size 1000
[ 0.633170] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 13] add_size 200000
add_align 100000
[ 0.634784] pci 0000:00:12.2: bridge window [mem
0x00100000-0x000ffffff] to [bus 13] add_size 200000 add_align 100000
[ 0.636285] pci 0000:00:12.3: bridge window [io 0x1000-0x0fff]
to [bus 14] add_size 1000
[ 0.637479] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 14] add_size 200000
add_align 100000
[ 0.639076] pci 0000:00:12.3: bridge window [mem
0x00100000-0x000ffffff] to [bus 14] add_size 200000 add_align 100000
[ 0.640556] pci 0000:00:12.4: bridge window [io 0x1000-0x0fff]
to [bus 15] add_size 1000
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[ 0.641696] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 15] add_size 200000
add_align 100000
[ 0.643281] pci 0000:00:12.4: bridge window [mem
0x00100000-0x000ffffff] to [bus 15] add_size 200000 add_align 100000
[ 0.644778] pci 0000:00:12.5: bridge window [io 0x1000-0x0fff]
to [bus 16] add_size 1000
[ 0.645994] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 16] add_size 200000
add_align 100000
[ 0.647647] pci 0000:00:12.5: bridge window [mem
0x00100000-0x000ffffff] to [bus 16] add_size 200000 add_align 100000
[ 0.649191] pci 0000:00:12.6: bridge window [io 0x1000-0x0fff]
to [bus 17] add_size 1000
[ 0.650288] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff 64bit pref] to [bus 17] add_size 200000
add_align 100000
[ 0.651907] pci 0000:00:12.6: bridge window [mem
0x00100000-0x000ffffff] to [bus 17] add_size 200000 add_align 100000
[ 0.653503] pci 0000:00:12.7: bridge window [io 0x1000-0x0fff]
to [bus 18] add_size 1000
[ 0.654699] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff 64bit pref] to [bus 18] add_size 100000
add_align 100000
[ 0.656325] pci 0000:00:12.7: bridge window [mem
0x00100000-0x001ffffff] to [bus 18] add_size 100000 add_align 100000
[ 0.657926] pci 0000:00:10.0: BAR 14: assigned [mem
0x10000000-0x101ffffff]
[ 0.658908] pci 0000:00:10.0: BAR 15: assigned [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.660088] pci 0000:00:10.1: BAR 14: assigned [mem
0x10200000-0x103ffffff]
[ 0.661093] pci 0000:00:10.1: BAR 15: assigned [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.662259] pci 0000:00:10.2: BAR 14: assigned [mem
0x10400000-0x105ffffff]
[ 0.663272] pci 0000:00:10.2: BAR 15: assigned [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.664425] pci 0000:00:10.3: BAR 14: assigned [mem
0x10600000-0x107ffffff]
[ 0.665393] pci 0000:00:10.3: BAR 15: assigned [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.666565] pci 0000:00:10.4: BAR 14: assigned [mem
0x10800000-0x109ffffff]
[ 0.667500] pci 0000:00:10.4: BAR 15: assigned [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.669302] pci 0000:00:10.5: BAR 14: assigned [mem
0x10a00000-0x10bffffff]
[ 0.670301] pci 0000:00:10.5: BAR 15: assigned [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.671544] pci 0000:00:10.6: BAR 14: assigned [mem
0x10c00000-0x10dffffff]
[ 0.672559] pci 0000:00:10.6: BAR 15: assigned [mem
0x8000c00000-0x8000dffffff 64bit pref]
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[0.673792] pci 0000:00:10.7: BAR 14: assigned [mem 0x10e00000-0x10ffffff]
[0.674803] pci 0000:00:10.7: BAR 15: assigned [mem 0x8000e00000-0x8000ffffff 64bit pref]
[0.675974] pci 0000:00:11.0: BAR 14: assigned [mem 0x11000000-0x111ffffff]
[0.676990] pci 0000:00:11.0: BAR 15: assigned [mem 0x8001000000-0x80011ffffff 64bit pref]
[0.678164] pci 0000:00:11.1: BAR 14: assigned [mem 0x11200000-0x113ffffff]
[0.679115] pci 0000:00:11.1: BAR 15: assigned [mem 0x8001200000-0x80013ffffff 64bit pref]
[0.680328] pci 0000:00:11.2: BAR 14: assigned [mem 0x11400000-0x115ffffff]
[0.681359] pci 0000:00:11.2: BAR 15: assigned [mem 0x8001400000-0x80015ffffff 64bit pref]
[0.682502] pci 0000:00:11.3: BAR 14: assigned [mem 0x11600000-0x117ffffff]
[0.683488] pci 0000:00:11.3: BAR 15: assigned [mem 0x8001600000-0x80017ffffff 64bit pref]
[0.684662] pci 0000:00:11.4: BAR 14: assigned [mem 0x11800000-0x119ffffff]
[0.685604] pci 0000:00:11.4: BAR 15: assigned [mem 0x8001800000-0x80019ffffff 64bit pref]
[0.686729] pci 0000:00:11.5: BAR 14: assigned [mem 0x11a00000-0x11bffffff]
[0.687705] pci 0000:00:11.5: BAR 15: assigned [mem 0x8001a00000-0x8001bffffff 64bit pref]
[0.688877] pci 0000:00:11.6: BAR 14: assigned [mem 0x11c00000-0x11dffffff]
[0.689859] pci 0000:00:11.6: BAR 15: assigned [mem 0x8001c00000-0x8001dffffff 64bit pref]
[0.690996] pci 0000:00:11.7: BAR 14: assigned [mem 0x11e00000-0x11ffffff]
[0.691913] pci 0000:00:11.7: BAR 15: assigned [mem 0x8001e00000-0x8001ffffff 64bit pref]
[0.693556] pci 0000:00:12.0: BAR 14: assigned [mem 0x12000000-0x121ffffff]
[0.694577] pci 0000:00:12.0: BAR 15: assigned [mem 0x8002000000-0x80021ffffff 64bit pref]
[0.695764] pci 0000:00:12.1: BAR 14: assigned [mem 0x12200000-0x123ffffff]
[0.696769] pci 0000:00:12.1: BAR 15: assigned [mem 0x8002200000-0x80023ffffff 64bit pref]
[0.697957] pci 0000:00:12.2: BAR 14: assigned [mem 0x12400000-0x125ffffff]
[0.698968] pci 0000:00:12.2: BAR 15: assigned [mem 0x8002400000-0x80025ffffff 64bit pref]
[0.700149] pci 0000:00:12.3: BAR 14: assigned [mem 0x12600000-0x127ffffff]
[0.701151] pci 0000:00:12.3: BAR 15: assigned [mem 0x8002600000-0x80027ffffff 64bit pref]
[0.702350] pci 0000:00:12.4: BAR 14: assigned [mem 0x12800000-0x129ffffff]

[0.703331] pci 0000:00:12.4: BAR 15: assigned [mem 0x800280000-0x80029fffff 64bit pref]
[0.704518] pci 0000:00:12.5: BAR 14: assigned [mem 0x12a00000-0x12bfffff]
[0.705485] pci 0000:00:12.5: BAR 15: assigned [mem 0x8002a0000-0x8002bfffff 64bit pref]
[0.706669] pci 0000:00:12.6: BAR 14: assigned [mem 0x12c00000-0x12dfffff]
[0.707619] pci 0000:00:12.6: BAR 15: assigned [mem 0x8002c0000-0x8002dfffff 64bit pref]
[0.708784] pci 0000:00:12.7: BAR 14: assigned [mem 0x12e00000-0x12ffffff]
[0.709781] pci 0000:00:12.7: BAR 15: assigned [mem 0x8002e0000-0x8002fffff 64bit pref]
[0.710953] pci 0000:00:01.0: BAR 4: assigned [mem 0x800300000-0x8003003fff 64bit pref]
[0.713043] pci 0000:00:02.0: BAR 0: assigned [mem 0x8003004000-0x8003007fff 64bit]
[0.714327] pci 0000:00:03.0: BAR 4: assigned [mem 0x8003008000-0x800300bfff 64bit pref]
[0.715586] pci 0000:00:01.0: BAR 1: assigned [mem 0x13000000-0x13000fff]
[0.717030] pci 0000:00:03.0: BAR 1: assigned [mem 0x13001000-0x13001fff]
[0.718080] pci 0000:00:10.0: BAR 0: assigned [mem 0x13002000-0x13002fff]
[0.719457] pci 0000:00:10.0: BAR 13: assigned [io 0x1000-0x1fff]
[0.720389] pci 0000:00:10.1: BAR 0: assigned [mem 0x13003000-0x13003fff]
[0.721776] pci 0000:00:10.1: BAR 13: assigned [io 0x2000-0x2fff]
[0.722677] pci 0000:00:10.2: BAR 0: assigned [mem 0x13004000-0x13004fff]
[0.724023] pci 0000:00:10.2: BAR 13: assigned [io 0x3000-0x3fff]
[0.724951] pci 0000:00:10.3: BAR 0: assigned [mem 0x13005000-0x13005fff]
[0.726278] pci 0000:00:10.3: BAR 13: assigned [io 0x4000-0x4fff]
[0.727153] pci 0000:00:10.4: BAR 0: assigned [mem 0x13006000-0x13006fff]
[0.728470] pci 0000:00:10.4: BAR 13: assigned [io 0x5000-0x5fff]
[0.729389] pci 0000:00:10.5: BAR 0: assigned [mem 0x13007000-0x13007fff]
[0.730652] pci 0000:00:10.5: BAR 13: assigned [io 0x6000-0x6fff]
[0.731543] pci 0000:00:10.6: BAR 0: assigned [mem 0x13008000-0x13008fff]
[0.733475] pci 0000:00:10.6: BAR 13: assigned [io 0x7000-0x7fff]
[0.734432] pci 0000:00:10.7: BAR 0: assigned [mem 0x13009000-0x13009fff]

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[ 0.735751] pci 0000:00:10.7: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.736698] pci 0000:00:11.0: BAR 0: assigned [mem
0x1300a000-0x1300afff]
[ 0.738006] pci 0000:00:11.0: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.738904] pci 0000:00:11.1: BAR 0: assigned [mem
0x1300b000-0x1300bfff]
[ 0.740175] pci 0000:00:11.1: BAR 13: assigned [io
0xa000-0xafff]
[ 0.741031] pci 0000:00:11.2: BAR 0: assigned [mem
0x1300c000-0x1300cfff]
[ 0.742407] pci 0000:00:11.2: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.743340] pci 0000:00:11.3: BAR 0: assigned [mem
0x1300d000-0x1300dfff]
[ 0.744741] pci 0000:00:11.3: BAR 13: assigned [io
0xc000-0xcfff]
[ 0.745621] pci 0000:00:11.4: BAR 0: assigned [mem
0x1300e000-0x1300efff]
[ 0.746893] pci 0000:00:11.4: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.747803] pci 0000:00:11.5: BAR 0: assigned [mem
0x1300f000-0x1300ffff]
[ 0.749143] pci 0000:00:11.5: BAR 13: assigned [io
0xe000-0xefff]
[ 0.750081] pci 0000:00:11.6: BAR 0: assigned [mem
0x13010000-0x13010fff]
[ 0.751365] pci 0000:00:11.6: BAR 13: assigned [io
0xf000-0xffff]
[ 0.752282] pci 0000:00:11.7: BAR 0: assigned [mem
0x13011000-0x13011fff]
[ 0.754077] pci 0000:00:11.7: BAR 13: no space for [io size
0x1000]
[ 0.754989] pci 0000:00:11.7: BAR 13: failed to assign [io size
0x1000]
[ 0.755981] pci 0000:00:12.0: BAR 0: assigned [mem
0x13012000-0x13012fff]
[ 0.757335] pci 0000:00:12.0: BAR 13: no space for [io size
0x1000]
[ 0.758208] pci 0000:00:12.0: BAR 13: failed to assign [io size
0x1000]
[ 0.759170] pci 0000:00:12.1: BAR 0: assigned [mem
0x13013000-0x13013fff]
[ 0.760478] pci 0000:00:12.1: BAR 13: no space for [io size
0x1000]
[ 0.761362] pci 0000:00:12.1: BAR 13: failed to assign [io size
0x1000]
[ 0.762306] pci 0000:00:12.2: BAR 0: assigned [mem
0x13014000-0x13014fff]
[ 0.763639] pci 0000:00:12.2: BAR 13: no space for [io size
0x1000]
[ 0.764597] pci 0000:00:12.2: BAR 13: failed to assign [io size
0x1000]
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[ 0.765507] pci 0000:00:12.3: BAR 0: assigned [mem
0x13015000-0x13015fff]
[ 0.766765] pci 0000:00:12.3: BAR 13: no space for [io size
0x1000]
[ 0.767761] pci 0000:00:12.3: BAR 13: failed to assign [io size
0x1000]
[ 0.768851] pci 0000:00:12.4: BAR 0: assigned [mem
0x13016000-0x13016fff]
[ 0.770177] pci 0000:00:12.4: BAR 13: no space for [io size
0x1000]
[ 0.771093] pci 0000:00:12.4: BAR 13: failed to assign [io size
0x1000]
[ 0.772040] pci 0000:00:12.5: BAR 0: assigned [mem
0x13017000-0x13017fff]
[ 0.773386] pci 0000:00:12.5: BAR 13: no space for [io size
0x1000]
[ 0.774341] pci 0000:00:12.5: BAR 13: failed to assign [io size
0x1000]
[ 0.775325] pci 0000:00:12.6: BAR 0: assigned [mem
0x13018000-0x13018fff]
[ 0.776684] pci 0000:00:12.6: BAR 13: no space for [io size
0x1000]
[ 0.777623] pci 0000:00:12.6: BAR 13: failed to assign [io size
0x1000]
[ 0.778624] pci 0000:00:12.7: BAR 0: assigned [mem
0x13019000-0x13019fff]
[ 0.779935] pci 0000:00:12.7: BAR 13: no space for [io size
0x1000]
[ 0.780868] pci 0000:00:12.7: BAR 13: failed to assign [io size
0x1000]
[ 0.781922] pci 0000:00:12.7: BAR 13: assigned [io
0x1000-0x1fff]
[ 0.782852] pci 0000:00:12.6: BAR 13: assigned [io
0x2000-0x2fff]
[ 0.783710] pci 0000:00:12.5: BAR 13: assigned [io
0x3000-0x3fff]
[ 0.785148] pci 0000:00:12.4: BAR 13: assigned [io
0x4000-0x4fff]
[ 0.786026] pci 0000:00:12.3: BAR 13: assigned [io
0x5000-0x5fff]
[ 0.786901] pci 0000:00:12.2: BAR 13: assigned [io
0x6000-0x6fff]
[ 0.787809] pci 0000:00:12.1: BAR 13: assigned [io
0x7000-0x7fff]
[ 0.788706] pci 0000:00:12.0: BAR 13: assigned [io
0x8000-0x8fff]
[ 0.789566] pci 0000:00:11.7: BAR 13: assigned [io
0x9000-0x9fff]
[ 0.790410] pci 0000:00:11.6: BAR 13: assigned [io
0xa000-0xafff]
[ 0.791308] pci 0000:00:11.5: BAR 13: assigned [io
0xb000-0xbfff]
[ 0.792166] pci 0000:00:11.4: BAR 13: assigned [io
0xc000-0xcfff]
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[ 0.793044] pci 0000:00:11.3: BAR 13: assigned [io
0xd000-0xdfff]
[ 0.793959] pci 0000:00:11.2: BAR 13: assigned [io
0xe000-0xefff]
[ 0.795350] pci 0000:00:11.1: BAR 13: assigned [io
0xf000-0xffff]
[ 0.796197] pci 0000:00:11.0: BAR 13: no space for [io size
0x1000]
[ 0.797065] pci 0000:00:11.0: BAR 13: failed to assign [io size
0x1000]
[ 0.797997] pci 0000:00:10.7: BAR 13: no space for [io size
0x1000]
[ 0.798869] pci 0000:00:10.7: BAR 13: failed to assign [io size
0x1000]
[ 0.799831] pci 0000:00:10.6: BAR 13: no space for [io size
0x1000]
[ 0.800721] pci 0000:00:10.6: BAR 13: failed to assign [io size
0x1000]
[ 0.801631] pci 0000:00:10.5: BAR 13: no space for [io size
0x1000]
[ 0.802492] pci 0000:00:10.5: BAR 13: failed to assign [io size
0x1000]
[ 0.803410] pci 0000:00:10.4: BAR 13: no space for [io size
0x1000]
[ 0.804314] pci 0000:00:10.4: BAR 13: failed to assign [io size
0x1000]
[ 0.805260] pci 0000:00:10.3: BAR 13: no space for [io size
0x1000]
[ 0.806115] pci 0000:00:10.3: BAR 13: failed to assign [io size
0x1000]
[ 0.807026] pci 0000:00:10.2: BAR 13: no space for [io size
0x1000]
[ 0.807859] pci 0000:00:10.2: BAR 13: failed to assign [io size
0x1000]
[ 0.808836] pci 0000:00:10.1: BAR 13: no space for [io size
0x1000]
[ 0.809727] pci 0000:00:10.1: BAR 13: failed to assign [io size
0x1000]
[ 0.810645] pci 0000:00:10.0: BAR 13: no space for [io size
0x1000]
[ 0.811512] pci 0000:00:10.0: BAR 13: failed to assign [io size
0x1000]
[ 0.812416] pci 0000:00:10.0: PCI bridge to [bus 01]
[ 0.813873] pci 0000:00:10.0: bridge window [mem
0x10000000-0x101ffffff]
[ 0.815296] pci 0000:00:10.0: bridge window [mem
0x800000000-0x80001ffffff 64bit pref]
[ 0.817393] pci 0000:00:10.1: PCI bridge to [bus 02]
[ 0.818807] pci 0000:00:10.1: bridge window [mem
0x10200000-0x103ffffff]
[ 0.820279] pci 0000:00:10.1: bridge window [mem
0x800020000-0x80003ffffff 64bit pref]
[ 0.822316] pci 0000:00:10.2: PCI bridge to [bus 03]
[ 0.824325] pci 0000:00:10.2: bridge window [mem
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0x10400000-0x105ffffff]
[ 0.825860] pci 0000:00:10.2: bridge window [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.827884] pci 0000:00:10.3: PCI bridge to [bus 04]
[ 0.829256] pci 0000:00:10.3: bridge window [mem
0x10600000-0x107ffffff]
[ 0.830670] pci 0000:00:10.3: bridge window [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.832754] pci 0000:00:10.4: PCI bridge to [bus 05]
[ 0.834043] pci 0000:00:10.4: bridge window [mem
0x10800000-0x109ffffff]
[ 0.836073] pci 0000:00:10.4: bridge window [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.838007] pci 0000:00:10.5: PCI bridge to [bus 06]
[ 0.839277] pci 0000:00:10.5: bridge window [mem
0x10a00000-0x10bffffff]
[ 0.840672] pci 0000:00:10.5: bridge window [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.842508] pci 0000:00:10.6: PCI bridge to [bus 07]
[ 0.843866] pci 0000:00:10.6: bridge window [mem
0x10c00000-0x10dffffff]
[ 0.845840] pci 0000:00:10.6: bridge window [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.847858] pci 0000:00:10.7: PCI bridge to [bus 08]
[ 0.849266] pci 0000:00:10.7: bridge window [mem
0x10e00000-0x10fffffff]
[ 0.850612] pci 0000:00:10.7: bridge window [mem
0x8000e00000-0x8000fffffff 64bit pref]
[ 0.852479] pci 0000:00:11.0: PCI bridge to [bus 09]
[ 0.853794] pci 0000:00:11.0: bridge window [mem
0x11000000-0x111ffffff]
[ 0.855132] pci 0000:00:11.0: bridge window [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.857799] pci 0000:00:11.1: PCI bridge to [bus 0a]
[ 0.858624] pci 0000:00:11.1: bridge window [io 0xf000-0xffff]
[ 0.860040] pci 0000:00:11.1: bridge window [mem
0x11200000-0x113ffffff]
[ 0.861411] pci 0000:00:11.1: bridge window [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.863342] pci 0000:00:11.2: PCI bridge to [bus 0b]
[ 0.864093] pci 0000:00:11.2: bridge window [io 0xe000-0xefff]
[ 0.865627] pci 0000:00:11.2: bridge window [mem
0x11400000-0x115ffffff]
[ 0.867604] pci 0000:00:11.2: bridge window [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.869565] pci 0000:00:11.3: PCI bridge to [bus 0c]
[ 0.870333] pci 0000:00:11.3: bridge window [io 0xd000-0xdfff]
[ 0.871794] pci 0000:00:11.3: bridge window [mem
0x11600000-0x117ffffff]
[ 0.873177] pci 0000:00:11.3: bridge window [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.875101] pci 0000:00:11.4: PCI bridge to [bus 0d]
[ 0.875778] pci 0000:00:11.4: bridge window [io 0xc000-0xcfff]
[ 0.877746] pci 0000:00:11.4: bridge window [mem
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0x11800000-0x119ffffff]
[ 0.879182] pci 0000:00:11.4: bridge window [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.881061] pci 0000:00:11.5: PCI bridge to [bus 0e]
[ 0.881745] pci 0000:00:11.5: bridge window [io 0xb000-0xbfff]
[ 0.883157] pci 0000:00:11.5: bridge window [mem
0x11a00000-0x11bffffff]
[ 0.884566] pci 0000:00:11.5: bridge window [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.886526] pci 0000:00:11.6: PCI bridge to [bus 0f]
[ 0.887269] pci 0000:00:11.6: bridge window [io 0xa000-0xaaff]
[ 0.889304] pci 0000:00:11.6: bridge window [mem
0x11c00000-0x11dffffff]
[ 0.890633] pci 0000:00:11.6: bridge window [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.892522] pci 0000:00:11.7: PCI bridge to [bus 10]
[ 0.893244] pci 0000:00:11.7: bridge window [io 0x9000-0x9fff]
[ 0.894658] pci 0000:00:11.7: bridge window [mem
0x11e00000-0x11fffffff]
[ 0.896013] pci 0000:00:11.7: bridge window [mem
0x8001e00000-0x8001fffffff 64bit pref]
[ 0.897902] pci 0000:00:12.0: PCI bridge to [bus 11]
[ 0.899237] pci 0000:00:12.0: bridge window [io 0x8000-0x8fff]
[ 0.900772] pci 0000:00:12.0: bridge window [mem
0x12000000-0x121ffffff]
[ 0.902150] pci 0000:00:12.0: bridge window [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.904088] pci 0000:00:12.1: PCI bridge to [bus 12]
[ 0.904869] pci 0000:00:12.1: bridge window [io 0x7000-0x7fff]
[ 0.906317] pci 0000:00:12.1: bridge window [mem
0x12200000-0x123ffffff]
[ 0.907703] pci 0000:00:12.1: bridge window [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.909677] pci 0000:00:12.2: PCI bridge to [bus 13]
[ 0.910383] pci 0000:00:12.2: bridge window [io 0x6000-0x6fff]
[ 0.911871] pci 0000:00:12.2: bridge window [mem
0x12400000-0x125ffffff]
[ 0.913323] pci 0000:00:12.2: bridge window [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.915328] pci 0000:00:12.3: PCI bridge to [bus 14]
[ 0.916034] pci 0000:00:12.3: bridge window [io 0x5000-0x5fff]
[ 0.917577] pci 0000:00:12.3: bridge window [mem
0x12600000-0x127ffffff]
[ 0.919908] pci 0000:00:12.3: bridge window [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 0.921861] pci 0000:00:12.4: PCI bridge to [bus 15]
[ 0.922608] pci 0000:00:12.4: bridge window [io 0x4000-0x4fff]
[ 0.924057] pci 0000:00:12.4: bridge window [mem
0x12800000-0x129ffffff]
[ 0.925528] pci 0000:00:12.4: bridge window [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 0.927414] pci 0000:00:12.5: PCI bridge to [bus 16]
[ 0.928157] pci 0000:00:12.5: bridge window [io 0x3000-0x3fff]
[ 0.930257] pci 0000:00:12.5: bridge window [mem
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0x12a00000-0x12bfffffff]
[ 0.931684] pci 0000:00:12.5: bridge window [mem
0x8002a00000-0x8002bfffffff 64bit pref]
[ 0.933625] pci 0000:00:12.6: PCI bridge to [bus 17]
[ 0.934395] pci 0000:00:12.6: bridge window [io 0x2000-0x2fff]
[ 0.935861] pci 0000:00:12.6: bridge window [mem
0x12c00000-0x12dfffffff]
[ 0.937215] pci 0000:00:12.6: bridge window [mem
0x8002c00000-0x8002dfffffff 64bit pref]
[ 0.939264] pci 0000:18:00.0: BAR 4: assigned [mem
0x8002e00000-0x8002e03fff 64bit pref]
[ 0.941627] pci 0000:18:00.0: BAR 1: assigned [mem
0x12e00000-0x12e00fff]
[ 0.942933] pci 0000:00:12.7: PCI bridge to [bus 18]
[ 0.943693] pci 0000:00:12.7: bridge window [io 0x1000-0x1fff]
[ 0.945173] pci 0000:00:12.7: bridge window [mem
0x12e00000-0x12ffffff]
[ 0.946576] pci 0000:00:12.7: bridge window [mem
0x8002e00000-0x8002fffffff 64bit pref]
[ 0.948562] pci_bus 0000:00: resource 4 [io 0x0000-0xffff
window]
[ 0.949396] pci_bus 0000:00: resource 5 [mem
0x10000000-0x3efeffff window]
[ 0.950420] pci_bus 0000:00: resource 6 [mem
0x8000000000-0xfffffffffff window]
[ 0.951941] pci_bus 0000:01: resource 1 [mem
0x10000000-0x101ffffff]
[ 0.952883] pci_bus 0000:01: resource 2 [mem
0x8000000000-0x80001ffffff 64bit pref]
[ 0.953961] pci_bus 0000:02: resource 1 [mem
0x10200000-0x103ffffff]
[ 0.954847] pci_bus 0000:02: resource 2 [mem
0x8000200000-0x80003ffffff 64bit pref]
[ 0.955931] pci_bus 0000:03: resource 1 [mem
0x10400000-0x105ffffff]
[ 0.956890] pci_bus 0000:03: resource 2 [mem
0x8000400000-0x80005ffffff 64bit pref]
[ 0.957896] pci_bus 0000:04: resource 1 [mem
0x10600000-0x107ffffff]
[ 0.958796] pci_bus 0000:04: resource 2 [mem
0x8000600000-0x80007ffffff 64bit pref]
[ 0.959893] pci_bus 0000:05: resource 1 [mem
0x10800000-0x109ffffff]
[ 0.960808] pci_bus 0000:05: resource 2 [mem
0x8000800000-0x80009ffffff 64bit pref]
[ 0.962526] pci_bus 0000:06: resource 1 [mem
0x10a00000-0x10bffffff]
[ 0.963421] pci_bus 0000:06: resource 2 [mem
0x8000a00000-0x8000bffffff 64bit pref]
[ 0.964481] pci_bus 0000:07: resource 1 [mem
0x10c00000-0x10dffffff]
[ 0.965417] pci_bus 0000:07: resource 2 [mem
0x8000c00000-0x8000dffffff 64bit pref]
[ 0.966474] pci_bus 0000:08: resource 1 [mem
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0x10e00000-0x10ffffff]
[ 0.967409] pci_bus 0000:08: resource 2 [mem
0x8000e00000-0x8000ffffff 64bit pref]
[ 0.968511] pci_bus 0000:09: resource 1 [mem
0x11000000-0x111ffffff]
[ 0.969406] pci_bus 0000:09: resource 2 [mem
0x8001000000-0x80011ffffff 64bit pref]
[ 0.970472] pci_bus 0000:0a: resource 0 [io 0xf000-0xffff]
[ 0.971265] pci_bus 0000:0a: resource 1 [mem
0x11200000-0x113ffffff]
[ 0.972196] pci_bus 0000:0a: resource 2 [mem
0x8001200000-0x80013ffffff 64bit pref]
[ 0.973498] pci_bus 0000:0b: resource 0 [io 0xe000-0xffff]
[ 0.974327] pci_bus 0000:0b: resource 1 [mem
0x11400000-0x115ffffff]
[ 0.975260] pci_bus 0000:0b: resource 2 [mem
0x8001400000-0x80015ffffff 64bit pref]
[ 0.976409] pci_bus 0000:0c: resource 0 [io 0xd000-0xdfff]
[ 0.977229] pci_bus 0000:0c: resource 1 [mem
0x11600000-0x117ffffff]
[ 0.978109] pci_bus 0000:0c: resource 2 [mem
0x8001600000-0x80017ffffff 64bit pref]
[ 0.979160] pci_bus 0000:0d: resource 0 [io 0xc000-0xcfff]
[ 0.979951] pci_bus 0000:0d: resource 1 [mem
0x11800000-0x119ffffff]
[ 0.980863] pci_bus 0000:0d: resource 2 [mem
0x8001800000-0x80019ffffff 64bit pref]
[ 0.981923] pci_bus 0000:0e: resource 0 [io 0xb000-0xbfff]
[ 0.982709] pci_bus 0000:0e: resource 1 [mem
0x11a00000-0x11bffffff]
[ 0.983577] pci_bus 0000:0e: resource 2 [mem
0x8001a00000-0x8001bffffff 64bit pref]
[ 0.984668] pci_bus 0000:0f: resource 0 [io 0xa000-0xffff]
[ 0.985485] pci_bus 0000:0f: resource 1 [mem
0x11c00000-0x11dffffff]
[ 0.986378] pci_bus 0000:0f: resource 2 [mem
0x8001c00000-0x8001dffffff 64bit pref]
[ 0.987436] pci_bus 0000:10: resource 0 [io 0x9000-0x9fff]
[ 0.988234] pci_bus 0000:10: resource 1 [mem
0x11e00000-0x11ffffff]
[ 0.989131] pci_bus 0000:10: resource 2 [mem
0x8001e00000-0x8001ffffff 64bit pref]
[ 0.990220] pci_bus 0000:11: resource 0 [io 0x8000-0x8fff]
[ 0.991006] pci_bus 0000:11: resource 1 [mem
0x12000000-0x121ffffff]
[ 0.991887] pci_bus 0000:11: resource 2 [mem
0x8002000000-0x80021ffffff 64bit pref]
[ 0.992957] pci_bus 0000:12: resource 0 [io 0x7000-0x7fff]
[ 0.993710] pci_bus 0000:12: resource 1 [mem
0x12200000-0x123ffffff]
[ 0.994638] pci_bus 0000:12: resource 2 [mem
0x8002200000-0x80023ffffff 64bit pref]
[ 0.995718] pci_bus 0000:13: resource 0 [io 0x6000-0x6fff]
[ 0.996366] pci_bus 0000:13: resource 1 [mem
```

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0x12400000-0x125ffffff]
[ 0.997473] pci_bus 0000:13: resource 2 [mem
0x8002400000-0x80025ffffff 64bit pref]
[ 0.998504] pci_bus 0000:14: resource 0 [io 0x5000-0x5fff]
[ 0.999297] pci_bus 0000:14: resource 1 [mem
0x12600000-0x127ffffff]
[ 1.000179] pci_bus 0000:14: resource 2 [mem
0x8002600000-0x80027ffffff 64bit pref]
[ 1.001295] pci_bus 0000:15: resource 0 [io 0x4000-0x4fff]
[ 1.002069] pci_bus 0000:15: resource 1 [mem
0x12800000-0x129ffffff]
[ 1.002957] pci_bus 0000:15: resource 2 [mem
0x8002800000-0x80029ffffff 64bit pref]
[ 1.004110] pci_bus 0000:16: resource 0 [io 0x3000-0x3fff]
[ 1.004928] pci_bus 0000:16: resource 1 [mem
0x12a00000-0x12bffffff]
[ 1.005819] pci_bus 0000:16: resource 2 [mem
0x8002a00000-0x8002bffffff 64bit pref]
[ 1.006892] pci_bus 0000:17: resource 0 [io 0x2000-0x2fff]
[ 1.007703] pci_bus 0000:17: resource 1 [mem
0x12c00000-0x12dffffff]
[ 1.008619] pci_bus 0000:17: resource 2 [mem
0x8002c00000-0x8002dffffff 64bit pref]
[ 1.009834] pci_bus 0000:18: resource 0 [io 0x1000-0x1fff]
[ 1.010726] pci_bus 0000:18: resource 1 [mem
0x12e00000-0x12ffffff]
[ 1.011653] pci_bus 0000:18: resource 2 [mem
0x8002e00000-0x8002ffffff 64bit pref]
[ 1.012816] ACPI: PCI: Interrupt link GSI0 configured for IRQ 35
[ 1.013743] ACPI: PCI: Interrupt link GSI1 configured for IRQ 36
[ 1.014710] ACPI: PCI: Interrupt link GSI2 configured for IRQ 37
[ 1.015592] ACPI: PCI: Interrupt link GSI3 configured for IRQ 38
[ 1.016771] iommu: Default domain type: Translated
[ 1.017480] iommu: DMA domain TLB invalidation policy: strict
mode
[ 1.019258] SCSI subsystem initialized
[ 1.020159] vgaarb: loaded
[ 1.021213] ACPI: bus type USB registered
[ 1.021932] usbcore: registered new interface driver usbfs
[ 1.022708] usbcore: registered new interface driver hub
[ 1.023555] usbcore: registered new device driver usb
[ 1.024315] pps_core: LinuxPPS API ver. 1 registered
[ 1.025043] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
[ 1.026332] PTP clock support registered
[ 1.027020] EDAC MC: Ver: 3.0.0
[ 1.028305] Registered efivars operations
[ 1.030589] NetLabel: Initializing
[ 1.031091] NetLabel: domain hash size = 128
[ 1.031696] NetLabel: protocols = UNLABELED CIPSOv4 CALIPSO
[ 1.032559] NetLabel: unlabeled traffic allowed by default
[ 1.033766] clocksource: Switched to clocksource arch_sys_counter
[ 1.043816] VFS: Disk quotas dquot_6.6.0
[ 1.044336] VFS: Dquot-cache hash table entries: 512 (order 0,

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4096 bytes)
[ 1.045464] AppArmor: AppArmor Filesystem Enabled
[ 1.046156] pnp: PnP ACPI init
[ 1.046699] system 00:00: [mem 0x4010000000-0x401fffffff window]
could not be reserved
[ 1.047839] pnp: PnP ACPI: found 1 devices
[ 1.050016] NET: Registered PF_INET protocol family
[ 1.051157] IP idents hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.054532] tcp_listen_portaddr_hash hash table entries: 16384
(order: 6, 262144 bytes, linear)
[ 1.055974] Table-perturb hash table entries: 65536 (order: 6,
262144 bytes, linear)
[ 1.057211] TCP established hash table entries: 262144 (order: 9,
2097152 bytes, linear)
[ 1.059072] TCP bind hash table entries: 65536 (order: 8, 1048576
bytes, linear)
[ 1.060423] TCP: Hash tables configured (established 262144 bind
65536)
[ 1.061901] MPTCP token hash table entries: 32768 (order: 7,
786432 bytes, linear)
[ 1.063072] UDP hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.064179] UDP-Lite hash table entries: 16384 (order: 7, 524288
bytes, linear)
[ 1.065503] NET: Registered PF_UNIX/PF_LOCAL protocol family
[ 1.066629] NET: Registered PF_XDP protocol family
[ 1.067636] pci 0000:00:02.0: enabling device (0000 -> 0002)
[ 1.069293] PCI: CLS 0 bytes, default 64
[ 1.070212] Trying to unpack rootfs image as initramfs...
[ 1.080225] hw perfevents: enabled with armv8_pmu3_0 PMU driver,
7 counters available
[ 1.082939] kvm [1]: HYP mode not available
[ 1.083968] Initialise system trusted keyrings
[ 1.084790] Key type blacklist registered
[ 1.085621] workingset: timestamp_bits=40 max_order=23
bucket_order=0
[ 1.087591] zbud: loaded
[ 1.088864] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 1.090697] fuse: init (API version 7.34)
[ 1.091624] integrity: Platform Keyring initialized
[ 1.101006] Key type asymmetric registered
[ 1.101654] Asymmetric key parser 'x509' registered
[ 1.102581] Block layer SCSI generic (bsg) driver version 0.4
loaded (major 242)
[ 1.103905] io scheduler mq-deadline registered
[ 1.105597] ACPI: \_SB_.PCI0.GSI0: Enabled at IRQ 35
[ 1.108317] pcieport 0000:00:10.0: PME: Signaling with IRQ 51
[ 1.109804] pcieport 0000:00:10.0: AER: enabled with IRQ 51
[ 1.110802] pcieport 0000:00:10.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.113228] pcieport 0000:00:10.0: pciehp: Slot(0): Link Up
[ 1.115618] pcieport 0000:00:10.1: PME: Signaling with IRQ 52
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[1.116877] pcieport 0000:00:10.1: AER: enabled with IRQ 52
[1.117906] pcieport 0000:00:10.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.121131] pcieport 0000:00:10.1: pciehp: Slot(0-1): Link Up
[1.124438] pcieport 0000:00:10.2: PME: Signaling with IRQ 53
[1.127901] pcieport 0000:00:10.2: AER: enabled with IRQ 53
[1.129415] pcieport 0000:00:10.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.133172] pcieport 0000:00:10.3: PME: Signaling with IRQ 54
[1.134296] pcieport 0000:00:10.2: pciehp: Slot(0-2): Link Up
[1.134786] pcieport 0000:00:10.3: AER: enabled with IRQ 54
[1.136644] pcieport 0000:00:10.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.139954] pcieport 0000:00:10.4: PME: Signaling with IRQ 55
[1.141121] pcieport 0000:00:10.3: pciehp: Slot(0-3): Link Up
[1.142281] pcieport 0000:00:10.4: AER: enabled with IRQ 55
[1.143619] pcieport 0000:00:10.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.146272] pcieport 0000:00:10.4: pciehp: Slot(0-4): Link Up
[1.148820] pcieport 0000:00:10.5: PME: Signaling with IRQ 56
[1.150195] pcieport 0000:00:10.5: AER: enabled with IRQ 56
[1.151158] pcieport 0000:00:10.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.154004] pcieport 0000:00:10.5: pciehp: Slot(0-5): Link Up
[1.157127] pcieport 0000:00:10.6: PME: Signaling with IRQ 57
[1.159733] pcieport 0000:00:10.6: AER: enabled with IRQ 57
[1.161503] pcieport 0000:00:10.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.168386] pcieport 0000:00:10.7: PME: Signaling with IRQ 58
[1.172755] pcieport 0000:00:10.6: pciehp: Slot(0-6): Link Up
[1.173434] pcieport 0000:00:10.7: AER: enabled with IRQ 58
[1.178080] pcieport 0000:00:10.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.181811] pcieport 0000:00:10.7: pciehp: Slot(0-7): Link Up
[1.183113] ACPI: _SB_.PCI0.GSI1: Enabled at IRQ 36
[1.187800] pcieport 0000:00:11.0: PME: Signaling with IRQ 59
[1.192182] pcieport 0000:00:11.0: AER: enabled with IRQ 59
[1.196176] pcieport 0000:00:11.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[1.204154] pcieport 0000:00:11.0: pciehp: Slot(0-8): Link Up
[1.205381] pcieport 0000:00:11.1: enabling device (0002 -> 0003)
[1.210552] pcieport 0000:00:11.1: PME: Signaling with IRQ 60
[1.214823] pcieport 0000:00:11.1: AER: enabled with IRQ 60
[1.218785] pcieport 0000:00:11.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+

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[ 1.226560] pcieport 0000:00:11.2: enabling device (0002 -> 0003)
[ 1.231004] pcieport 0000:00:11.2: PME: Signaling with IRQ 61
[ 1.234044] pcieport 0000:00:11.1: pciehp: Slot(0-9): Link Up
[ 1.236914] pcieport 0000:00:11.2: AER: enabled with IRQ 61
[ 1.239538] pcieport 0000:00:11.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.248843] pcieport 0000:00:11.2: pciehp: Slot(0-10): Link Up
[ 1.249984] pcieport 0000:00:11.3: enabling device (0002 -> 0003)
[ 1.255122] pcieport 0000:00:11.3: PME: Signaling with IRQ 62
[ 1.258452] pcieport 0000:00:11.3: AER: enabled with IRQ 62
[ 1.261448] pcieport 0000:00:11.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.268186] pcieport 0000:00:11.3: pciehp: Slot(0-11): Link Up
[ 1.269520] pcieport 0000:00:11.4: enabling device (0002 -> 0003)
[ 1.275081] pcieport 0000:00:11.4: PME: Signaling with IRQ 63
[ 1.279381] pcieport 0000:00:11.4: AER: enabled with IRQ 63
[ 1.283901] pcieport 0000:00:11.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.289812] pcieport 0000:00:11.4: pciehp: Slot(0-12): Link Up
[ 1.291506] pcieport 0000:00:11.5: enabling device (0002 -> 0003)
[ 1.295880] pcieport 0000:00:11.5: PME: Signaling with IRQ 64
[ 1.300640] pcieport 0000:00:11.5: AER: enabled with IRQ 64
[ 1.303938] pcieport 0000:00:11.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.311176] pcieport 0000:00:11.6: enabling device (0002 -> 0003)
[ 1.315923] pcieport 0000:00:11.6: PME: Signaling with IRQ 65
[ 1.317686] Freeing initrd memory: 29520K
[ 1.319067] pcieport 0000:00:11.5: pciehp: Slot(0-13): Link Up
[ 1.320225] pcieport 0000:00:11.6: AER: enabled with IRQ 65
[ 1.323579] pcieport 0000:00:11.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.326201] pcieport 0000:00:11.6: pciehp: Slot(0-14): Link Up
[ 1.327736] pcieport 0000:00:11.7: enabling device (0002 -> 0003)
[ 1.331391] pcieport 0000:00:11.7: PME: Signaling with IRQ 66
[ 1.332402] pcieport 0000:00:11.7: AER: enabled with IRQ 66
[ 1.333228] pcieport 0000:00:11.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.336037] ACPI: \_SB_.PCI0.GSI2: Enabled at IRQ 37
[ 1.336813] pcieport 0000:00:12.0: enabling device (0002 -> 0003)
[ 1.338953] pcieport 0000:00:12.0: PME: Signaling with IRQ 67
[ 1.340365] pcieport 0000:00:11.7: pciehp: Slot(0-15): Link Up
[ 1.341301] pcieport 0000:00:12.0: AER: enabled with IRQ 67
[ 1.343735] pcieport 0000:00:12.0: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.347115] pcieport 0000:00:12.1: enabling device (0002 -> 0003)
[ 1.349372] pcieport 0000:00:12.1: PME: Signaling with IRQ 68
[ 1.350426] pcieport 0000:00:12.0: pciehp: Slot(0-16): Link Up
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[ 1.351459] pcieport 0000:00:12.1: AER: enabled with IRQ 68
[ 1.352586] pcieport 0000:00:12.1: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.356057] pcieport 0000:00:12.1: pciehp: Slot(0-17): Link Up
[ 1.356838] pcieport 0000:00:12.2: enabling device (0002 -> 0003)
[ 1.359064] pcieport 0000:00:12.2: PME: Signaling with IRQ 69
[ 1.360126] pcieport 0000:00:12.2: AER: enabled with IRQ 69
[ 1.360969] pcieport 0000:00:12.2: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.363203] pcieport 0000:00:12.2: pciehp: Slot(0-18): Link Up
[ 1.363719] pcieport 0000:00:12.3: enabling device (0002 -> 0003)
[ 1.366698] pcieport 0000:00:12.3: PME: Signaling with IRQ 70
[ 1.367806] pcieport 0000:00:12.3: AER: enabled with IRQ 70
[ 1.368669] pcieport 0000:00:12.3: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.372485] pcieport 0000:00:12.4: enabling device (0002 -> 0003)
[ 1.375270] pcieport 0000:00:12.4: PME: Signaling with IRQ 71
[ 1.377313] pcieport 0000:00:12.3: pciehp: Slot(0-19): Link Up
[ 1.378282] pcieport 0000:00:12.4: AER: enabled with IRQ 71
[ 1.379107] pcieport 0000:00:12.4: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.381458] pcieport 0000:00:12.5: enabling device (0002 -> 0003)
[ 1.383522] pcieport 0000:00:12.5: PME: Signaling with IRQ 72
[ 1.384453] pcieport 0000:00:12.4: pciehp: Slot(0-20): Link Up
[ 1.385247] pcieport 0000:00:12.5: AER: enabled with IRQ 72
[ 1.386514] pcieport 0000:00:12.5: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.388818] pcieport 0000:00:12.5: pciehp: Slot(0-21): Link Up
[ 1.389308] pcieport 0000:00:12.6: enabling device (0002 -> 0003)
[ 1.391931] pcieport 0000:00:12.6: PME: Signaling with IRQ 73
[ 1.393404] pcieport 0000:00:12.6: AER: enabled with IRQ 73
[ 1.394985] pcieport 0000:00:12.6: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.397696] pcieport 0000:00:12.6: pciehp: Slot(0-22): Link Up
[ 1.398234] pcieport 0000:00:12.7: enabling device (0002 -> 0003)
[ 1.401226] pcieport 0000:00:12.7: PME: Signaling with IRQ 74
[ 1.402432] pcieport 0000:00:12.7: AER: enabled with IRQ 74
[ 1.403249] pcieport 0000:00:12.7: pciehp: Slot #0 AttnBtn+
PwrCtrl+ MRL- AttnInd+ PwrInd+ HotPlug+ Surprise+ Interlock+
NoCompl- IbPresDis- LLActRep+
[ 1.405636] shpchp: Standard Hot Plug PCI Controller Driver
version: 0.4
[ 1.407568] input: Power Button as /devices/LNXSYSTM:00/
LNXXSYBUS:00/PNP0C0C:00/input/input0
[ 1.408806] ACPI: button: Power Button [PWRB]
[ 1.412454] ACPI: \_SB_.PCI0.GSI3: Enabled at IRQ 38
[ 1.413235] virtio-pci 0000:00:03.0: enabling device (0000 ->
0002)
```



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[ 1.416635] Serial: 8250/16550 driver, 32 ports, IRQ sharing
enabled
[ 1.419516] msm_serial: driver initialized
[ 1.420426] cacheinfo: Unable to detect cache hierarchy for CPU 0
[ 1.422970] loop: module loaded
[ 1.423522] SPI driver altr_a10sr has no spi_device_id for
altr,a10sr
[ 1.425048] tun: Universal TUN/TAP device driver, 1.6
[ 1.425908] PPP generic driver version 2.4.2
[ 1.426871] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
[ 1.427953] ehci-pci: EHCI PCI platform driver
[ 1.429159] ehci-orion: EHCI orion driver
[ 1.429736] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
[ 1.431066] ohci-pci: OHCI PCI platform driver
[ 1.431720] uhci_hcd: USB Universal Host Controller Interface
driver
[ 1.432875] mousedev: PS/2 mouse device common for all mice
[ 1.434114] rtc-efi rtc-efi.0: registered as rtc0
[ 1.434840] rtc-efi rtc-efi.0: setting system clock to
2022-11-27T01:39:50 UTC (1669513190)
[ 1.436045] i2c_dev: i2c /dev entries driver
[ 1.436932] device-mapper: core: CONFIG_IMA_DISABLE_HTABLE is
disabled. Duplicate IMA measurements will not be recorded in the IMA
log.
[ 1.438965] device-mapper: uevent: version 1.0.3
[ 1.439887] device-mapper: ioctl: 4.45.0-ioctl (2021-03-22)
initialised: dm-devel@redhat.com
[ 1.441384] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.442905] drop_monitor: Initializing network drop monitor
service
[ 1.443953] NET: Registered PF_INET6 protocol family
[ 1.464891] Segment Routing with IPv6
[ 1.465410] In-situ OAM (IOAM) with IPv6
[ 1.466109] NET: Registered PF_PACKET protocol family
[ 1.466936] Key type dns_resolver registered
[ 1.467787] registered taskstats version 1
[ 1.468684] Loading compiled-in X.509 certificates
[ 1.470252] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.472148] Loaded X.509 cert 'Canonical Ltd. Live Patch Signing:
14df34d1a87cf37625abec039ef2bf521249b969'
[ 1.474127] Loaded X.509 cert 'Canonical Ltd. Kernel Module
Signing: 88f752e560a1e0737e31163a466ad7b70a850c19'
[ 1.475471] blacklist: Loading compiled-in revocation X.509
certificates
[ 1.476434] Loaded X.509 cert 'Canonical Ltd. Secure Boot
Signing: 61482aa2830d0ab2ad5af10b7250da9033ddcef0'
[ 1.478065] zswap: loaded using pool lzo/zbud
[ 1.479004] Key type ._fscrypt registered
[ 1.479561] Key type .fscrypt registered
[ 1.480103] Key type fscrypt-provisioning registered
[ 1.497700] cryptd: max_cpu_qlen set to 1000
```

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[ 1.509068] Key type encrypted registered
[ 1.509634] AppArmor: AppArmor sha1 policy hashing enabled
[ 1.510901] integrity: Loading X.509 certificate: UEFI:MokListRT
(MOKvar table)
[ 1.512353] integrity: Loaded X.509 cert 'Canonical Ltd. Master
Certificate Authority: ad91990bc22ab1f517048c23b6655a268e345a63'
[ 1.513996] ima: No TPM chip found, activating TPM-bypass!
[ 1.514840] Loading compiled-in module X.509 certificates
[ 1.516219] Loaded X.509 cert 'Build time autogenerated kernel
key: f4083097f3418a98515fb671f48a5cd27d416de4'
[ 1.517628] ima: Allocated hash algorithm: sha1
[ 1.518331] ima: No architecture policies found
[ 1.519031] evm: Initialising EVM extended attributes:
[ 1.519836] evm: security.selinux
[ 1.520366] evm: security.SMACK64
[ 1.520896] evm: security.SMACK64EXEC
[ 1.521415] evm: security.SMACK64TRANSMUTE
[ 1.522151] evm: security.SMACK64MMAP
[ 1.522690] evm: security.apparmor
[ 1.523206] evm: security.ima
[ 1.523666] evm: security.capability
[ 1.524198] evm: HMAC attrs: 0x1
[ 1.527432] Freeing unused kernel memory: 9536K
[ 1.594512] Checked W+X mappings: passed, no W+X pages found
[ 1.595276] Run /init as init process
[ 1.784312] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.785065] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 1
[ 1.786436] xhci_hcd 0000:00:02.0: hcc params 0x00087001 hci
version 0x100 quirks 0x0000000000000010
[ 1.791647] xhci_hcd 0000:00:02.0: xHCI Host Controller
[ 1.793052] xhci_hcd 0000:00:02.0: new USB bus registered,
assigned bus number 2
[ 1.794880] xhci_hcd 0000:00:02.0: Host supports USB 3.0
SuperSpeed
[ 1.797220] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.15
[ 1.800154] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.801136] usb usb1: Product: xHCI Host Controller
[ 1.801791] usb usb1: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
[ 1.802686] usb usb1: SerialNumber: 0000:00:02.0
[ 1.807730] hub 1-0:1.0: USB hub found
[ 1.808678] hub 1-0:1.0: 4 ports detected
[ 1.810153] usb usb2: We don't know the algorithms for LPM for
this host, disabling LPM.
[ 1.811517] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0003, bcdDevice= 5.15
[ 1.812716] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
[ 1.813658] usb usb2: Product: xHCI Host Controller
[ 1.814416] usb usb2: Manufacturer: Linux 5.15.0-1022-oracle
xhci-hcd
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[ 1.815325] usb usb2: SerialNumber: 0000:00:02.0
[ 1.816534] hub 2-0:1.0: USB hub found
[ 1.817046] hub 2-0:1.0: 4 ports detected
[ 1.819514] scsi host0: Virtio SCSI HBA
[ 1.823931] scsi 0:0:0:1: Direct-Access          ORACLE   BlockVolume
1.0 PQ: 0 ANSI: 6
[ 1.840845] sd 0:0:0:1: Attached scsi generic sg0 type 0
[ 1.842714] sd 0:0:0:1: Power-on or device reset occurred
[ 1.846520] sd 0:0:0:1: [sda] 411041792 512-byte logical blocks:
(210 GB/196 GiB)
[ 1.847705] sd 0:0:0:1: [sda] 4096-byte physical blocks
[ 1.849317] sd 0:0:0:1: [sda] Write Protect is off
[ 1.851133] sd 0:0:0:1: [sda] Write cache: disabled, read cache:
enabled, supports DPO and FUA
[ 1.853779] sd 0:0:0:1: [sda] Optimal transfer size 1048576 bytes
[ 1.893192] sda: sda1 sda15
[ 1.911118] virtio_net virtio1 enp0s3: renamed from eth0
[ 1.931044] sd 0:0:0:1: [sda] Attached SCSI disk
[ 1.953066] [drm] pci: virtio-gpu-pci detected at 0000:00:01.0
[ 1.954566] [drm] features: -virgl +edid -resource_blob
-host_visible
[ 1.956052] [drm] number of scanouts: 1
[ 1.956768] [drm] number of cap sets: 0
[ 1.958387] [drm] Initialized virtio_gpu 0.1.0 0 for virtio0 on
minor 0
[ 1.961972] virtio_gpu virtio0: [drm]
drm_plane_enable_fb_damage_clips() not called
[ 1.961984] Console: switching to colour frame buffer device
128x48
[ 1.972613] virtio_gpu virtio0: [drm] fb0: virtio_gpudrmfb frame
buffer device
[ 2.145794] usb 1-1: new high-speed USB device number 2 using
xhci_hcd
[ 2.293791] raid6: neonx8 gen() 13626 MB/s
[ 2.294891] usb 1-1: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.296033] usb 1-1: New USB device strings: Mfr=1, Product=3,
SerialNumber=10
[ 2.297032] usb 1-1: Product: QEMU USB Tablet
[ 2.297631] usb 1-1: Manufacturer: QEMU
[ 2.298183] usb 1-1: SerialNumber: 28754-0000:00:02.0-1
[ 2.361786] raid6: neonx8 xor() 10693 MB/s
[ 2.425782] usb 1-2: new high-speed USB device number 3 using
xhci_hcd
[ 2.429785] raid6: neonx4 gen() 13409 MB/s
[ 2.497793] raid6: neonx4 xor() 11283 MB/s
[ 2.565785] raid6: neonx2 gen() 12878 MB/s
[ 2.574205] usb 1-2: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.575336] usb 1-2: New USB device strings: Mfr=1, Product=4,
SerialNumber=11
[ 2.576316] usb 1-2: Product: QEMU USB Keyboard
[ 2.577041] usb 1-2: Manufacturer: QEMU
[ 2.577549] usb 1-2: SerialNumber: 68284-0000:00:02.0-2
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[ 2.633781] raid6: neonx2 xor() 10230 MB/s
[ 2.701784] raid6: neonx1 gen() 10649 MB/s
[ 2.705792] usb 1-3: new high-speed USB device number 4 using
xhci_hcd
[ 2.717839] pcieport 0000:00:10.2: pciehp: Slot(0-2): No device
found
[ 2.737839] pcieport 0000:00:10.1: pciehp: Slot(0-1): No device
found
[ 2.765806] pcieport 0000:00:10.5: pciehp: Slot(0-5): No device
found
[ 2.769802] raid6: neonx1 xor() 8712 MB/s
[ 2.785852] pcieport 0000:00:10.6: pciehp: Slot(0-6): No device
found
[ 2.793849] pcieport 0000:00:10.3: pciehp: Slot(0-3): No device
found
[ 2.825820] pcieport 0000:00:10.7: pciehp: Slot(0-7): No device
found
[ 2.837791] raid6: int64x8 gen() 6314 MB/s
[ 2.849883] pcieport 0000:00:11.1: pciehp: Slot(0-9): No device
found
[ 2.854257] usb 1-3: New USB device found, idVendor=0627,
idProduct=0001, bcdDevice= 0.00
[ 2.855808] usb 1-3: New USB device strings: Mfr=1, Product=2,
SerialNumber=9
[ 2.857314] usb 1-3: Product: QEMU USB Mouse
[ 2.858697] usb 1-3: Manufacturer: QEMU
[ 2.859697] usb 1-3: SerialNumber: 89126-0000:00:02.0-3
[ 2.867641] hid: raw HID events driver (C) Jiri Kosina
[ 2.873853] usbcore: registered new interface driver usbhid
[ 2.875047] usbhid: USB HID core driver
[ 2.877911] pcieport 0000:00:11.2: pciehp: Slot(0-10): No device
found
[ 2.883815] input: QEMU QEMU USB Tablet as /devices/
pci0000:00/0000:00:02.0/usb1/1-1/1-1:1.0/0003:0627:0001.0001/input/
input1
[ 2.886959] hid-generic 0003:0627:0001.0001: input,hidraw0: USB
HID v0.01 Mouse [QEMU QEMU USB Tablet] on usb-0000:00:02.0-1/input0
[ 2.890540] input: QEMU QEMU USB Keyboard as /devices/
pci0000:00/0000:00:02.0/usb1/1-2/1-2:1.0/0003:0627:0001.0002/input/
input2
[ 2.905781] raid6: int64x8 xor() 3503 MB/s
[ 2.917814] pcieport 0000:00:11.3: pciehp: Slot(0-11): No device
found
[ 2.933833] pcieport 0000:00:11.5: pciehp: Slot(0-13): No device
found
[ 2.937829] pcieport 0000:00:11.6: pciehp: Slot(0-14): No device
found
[ 2.950000] hid-generic 0003:0627:0001.0002: input,hidraw1: USB
HID v1.11 Keyboard [QEMU QEMU USB Keyboard] on usb-0000:00:02.0-2/
input0
[ 2.952797] input: QEMU QEMU USB Mouse as /devices/
pci0000:00/0000:00:02.0/usb1/1-3/1-3:1.0/0003:0627:0001.0003/input/
input3
[ 2.955131] hid-generic 0003:0627:0001.0003: input,hidraw2: USB
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HID v0.01 Mouse [QEMU QEMU USB Mouse] on usb-0000:00:02.0-3/input0
[ 2.961871] pcieport 0000:00:12.1: pciehp: Slot(0-17): No device
found
[ 2.973783] raid6: int64x4 gen() 7257 MB/s
[ 2.973851] pcieport 0000:00:12.2: pciehp: Slot(0-18): No device
found
[ 2.989840] pcieport 0000:00:12.5: pciehp: Slot(0-21): No device
found
[ 3.009807] pcieport 0000:00:11.7: pciehp: Slot(0-15): No device
found
[ 3.029827] pcieport 0000:00:12.6: pciehp: Slot(0-22): No device
found
[ 3.041779] raid6: int64x4 xor() 3860 MB/s
[ 3.042065] pcieport 0000:00:12.3: pciehp: Slot(0-19): No device
found
[ 3.109786] raid6: int64x2 gen() 6176 MB/s
[ 3.177781] raid6: int64x2 xor() 3323 MB/s
[ 3.245786] raid6: int64x1 gen() 5062 MB/s
[ 3.313783] raid6: int64x1 xor() 2650 MB/s
[ 3.314880] raid6: using algorithm neonx8 gen() 13626 MB/s
[ 3.316143] raid6: .... xor() 10693 MB/s, rmw enabled
[ 3.317372] raid6: using neon recovery algorithm
[ 3.320841] xor: measuring software checksum speed
[ 3.325924] 8regs : 17275 MB/sec
[ 3.330290] 32regs : 20739 MB/sec
[ 3.334130] arm64_neon : 27826 MB/sec
[ 3.338614] xor: using function: arm64_neon (27826 MB/sec)
[ 3.345063] async_tx: api initialized (async)
[ 3.405834] No iBFT detected.
[ 3.537208] Loading iSCSI transport class v2.0-870.
[ 3.544698] iscsi: registered transport (tcp)
[ 3.637753] Btrfs loaded, crc32c=crc32c-generic, zoned=yes,
fsverity=yes
[ 3.758030] EXT4-fs (sda1): mounted filesystem with ordered data
mode. Opts: (null). Quota mode: none.
[ 3.817928] pcieport 0000:00:10.0: pciehp: Slot(0): No device
found
[ 3.846136] pcieport 0000:00:10.4: pciehp: Slot(0-4): No device
found
[ 3.902210] pcieport 0000:00:11.0: pciehp: Slot(0-8): No device
found
[ 3.997838] pcieport 0000:00:11.4: pciehp: Slot(0-12): No device
found
[ 4.050851] systemd[1]: Inserted module 'autofs4'
[ 4.053809] pcieport 0000:00:12.0: pciehp: Slot(0-16): No device
found
[ 4.081808] pcieport 0000:00:12.4: pciehp: Slot(0-20): No device
found
[ 4.089160] systemd[1]: systemd 249.11-0ubuntu3.6 running in
system mode (+PAM +AUDIT +SELINUX +APPARMOR +IMA +SMACK +SECCOMP
+GCRYPT +GNUTLS +OPENSSL +ACL +BLKID +CURL +ELFUTILS +FIDO2 +IDN2
-IDN +IPTC +KMOD +LIBCRYPTSETUP +LIBFDISK +PCRE2 -PWQUALITY -P11KIT
-QRENCODE +BZIP2 +LZ4 +XZ +ZLIB +ZSTD -XKBCOMMON +UTMP +SYSVINIT
default-hierarchy=unified)
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[ 4.095645] systemd[1]: Detected virtualization kvm.
[ 4.097334] systemd[1]: Detected architecture arm64.
[ 4.103927] systemd[1]: Hostname set to <ubuntu>.
[ 4.237137] random: lvmconfig: uninitialized urandom read (4
bytes read)
[ 4.562272] systemd[1]: Queued start job for default target
Graphical Interface.
[ 4.568613] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.590882] systemd[1]: Created slice Slice /system/modprobe.
[ 4.593021] random: systemd: uninitialized urandom read (16 bytes
read)
[ 4.595111] systemd[1]: Created slice Slice /system/postfix.
[ 4.597665] systemd[1]: Created slice Slice /system/serial-getty.
[ 4.601051] systemd[1]: Created slice Slice /system/systemd-fsck.
[ 4.608363] systemd[1]: Created slice User and Session Slice.
[ 4.610853] systemd[1]: Started Forward Password Requests to Wall
Directory Watch.
[ 4.614090] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
[ 4.617067] systemd[1]: Reached target Slice Units.
[ 4.619592] systemd[1]: Reached target Local Verity Protected
Volumes.
[ 4.622154] systemd[1]: Listening on Device-mapper event daemon
FIFOs.
[ 4.632574] systemd[1]: Listening on LVM2 poll daemon socket.
[ 4.635087] systemd[1]: Listening on multipathd control socket.
[ 4.642543] systemd[1]: Listening on RPCbind Server Activation
Socket.
[ 4.649102] systemd[1]: Listening on Syslog Socket.
[ 4.654213] systemd[1]: Listening on fsck to fsckd communication
Socket.
[ 4.660526] systemd[1]: Listening on initctl Compatibility Named
Pipe.
[ 4.663291] systemd[1]: Listening on Journal Audit Socket.
[ 4.666305] systemd[1]: Listening on Journal Socket (/dev/log).
[ 4.677058] systemd[1]: Listening on Journal Socket.
[ 4.679338] systemd[1]: Listening on Network Service Netlink
Socket.
[ 4.681899] systemd[1]: Listening on udev Control Socket.
[ 4.684083] systemd[1]: Listening on udev Kernel Socket.
[ 4.710849] systemd[1]: Mounting Huge Pages File System...
[ 4.723327] systemd[1]: Mounting POSIX Message Queue File
System...
[ 4.727134] systemd[1]: Mounting Kernel Debug File System...
[ 4.731177] systemd[1]: Mounting Kernel Trace File System...
[ 4.735630] systemd[1]: Starting Journal Service...
[ 4.739194] systemd[1]: Condition check resulted in Kernel Module
supporting RPCSEC_GSS being skipped.
[ 4.743446] systemd[1]: Starting Set the console keyboard
layout...
[ 4.755848] systemd[1]: Starting Create List of Static Device
Nodes...
[ 4.759507] systemd[1]: Starting Monitoring of LVM2 mirrors,
```

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snapshots etc. using dmeventd or progress polling...
[ 4.772914] systemd[1]: Condition check resulted in LXDM - agent
being skipped.
[ 4.776238] systemd[1]: Starting Load Kernel Module
chromeos_pstore...
[ 4.779708] systemd[1]: Starting Load Kernel Module configfs...
[ 4.791117] systemd[1]: Starting Load Kernel Module drm...
[ 4.795256] systemd[1]: Starting Load Kernel Module efi_pstore...
[ 4.801956] systemd[1]: Starting Load Kernel Module fuse...
[ 4.804371] pstore: Using crash dump compression: deflate
[ 4.804376] pstore: Registered efi as persistent store backend
[ 4.814920] systemd[1]: Starting Load Kernel Module pstore_blk...
[ 4.822791] systemd[1]: Starting Load Kernel Module
pstore_zone...
[ 4.833404] systemd[1]: Starting Load Kernel Module ramoops...
[ 4.835947] systemd[1]: Condition check resulted in OpenVSwitch
configuration for cleanup being skipped.
[ 4.839050] systemd[1]: Condition check resulted in File System
Check on Root Device being skipped.
[ 4.845458] systemd[1]: Starting Load Kernel Modules...
[ 4.857313] systemd[1]: Starting Remount Root and Kernel File
Systems...
[ 4.862241] systemd[1]: Starting Coldplug All udev Devices...
[ 4.869062] EXT4-fs (sda1): re-mounted. Opts:
discard,errors=remount-ro. Quota mode: none.
[ 4.875207] systemd[1]: Mounted Huge Pages File System.
[ 4.878950] systemd[1]: Mounted POSIX Message Queue File System.
[ 4.883732] systemd[1]: Started Journal Service.
[ 4.941010] Adding 5242876k swap on /swapfile. Priority:-2
extents:3 across:5505020k FS
[ 4.945239] alua: device handler registered
[ 4.946538] systemd-journald[517]: Received client request to
flush runtime journal.
[ 4.952785] emc: device handler registered
[ 4.958632] rdac: device handler registered
```

Ubuntu 22.04.1 LTS ubuntu ttyAMA0

ubuntu login: