```
:~$ dmesq
    0.000000] Initializing cgroup subsys cpuset
    0.000000] Initializing cgroup subsys cpu
    0.000000] Initializing cgroup subsys cpuacct
    0.000000] Linux version 4.0.6-1-ARCH (builduser@tobias) (gcc version 5.1.0
(GCC) ) #1 SMP PREEMPT Tue Jun 23 14:25:08 CEST 2015
    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-linux root=UUID=b67510d5-
b5b5-4747-8cb8-978ec10b7391 rw resume=UUID=bbf593f1-0763-4968-a073-9f7beebee9c5
quiet
    0.000000] e820: BIOS-provided physical RAM map:
    0.000000] BIOS-e820: [mem 0x000000000000000-0x000000000087fff] usable
    0.000000] BIOS-e820: [mem 0x000000000088000-0x0000000000bffff] reserved
    0.0000001 BIOS-e820: [mem 0x000000000100000-0x00000001fffffff] usable
    0.000000] BIOS-e820: [mem 0x0000000020000000-0x00000000201ffffff] reserved
    0.000000] BIOS-e820:
                         [mem 0x0000000020200000-0x000000003a4befff] usable
                         [mem 0x000000003a4bf000-0x000000003a8befff] type 20
    0.000000] BIOS-e820:
    0.0000001 BIOS-e820: [mem 0x000000003a8bf000-0x00000003aebefff] reserved
    0.000000] BIOS-e820: [mem 0x000000003aebf000-0x00000003afbefff] ACPI NVS
    0.000000] BIOS-e820: [mem 0x000000003afbf000-0x000000003affefff] ACPI data
    0.0000001 BIOS-e820: [mem 0x000000003afff000-0x000000003affffff] usable
    0.000000] BIOS-e820: [mem 0x000000003b000000-0x000000003f9fffff] reserved
                         [mem 0x00000000e00000000-0x00000000effffff] reserved
    0.0000001 BIOS-e820:
    0.0000001 BIOS-e820:
                         [mem 0x00000000feb00000-0x0000000feb03fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fed10000-0x00000000fed19fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fed1c000-0x00000000fed1ffff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000ffb80000-0x00000000fffffffff] reserved
    0.000000] BIOS-e820: [mem 0x0000000100000000-0x000000023f5fffff] usable
    0.000000] NX (Execute Disable) protection: active
    0.000000] efi: EFI v2.31 by INSYDE Corp.
    0.000000] efi: ACPI=0x3affe000 ACPI 2.0=0x3affe014
                                                         SMBIOS=0x3aebef98
    0.000000] efi: mem00: [Boot Code
                                                              |WB|WT|WC|UC]
0.000000] efi: mem01: [Conventional Memory]
                                                              |WB|WT|WC|UC]
range=[0x0000000000001000-0x0000000000000000) (OMB)
    0.000000] efi: mem02: [Boot Code
                                                              |WB|WT|WC|UC]
0.000000] efi: mem03: [Conventional Memory]
                                                              [WB | WT | WC | UC]
range=[0x0000000000010000-0x000000000002c000) (0MB)
    0.000000] efi: mem04: [Boot Data
                                                              [WB | WT | WC | UC]
range=[0x000000000002c000-0x0000000000002e000)
                                            (0MB)
    0.000000] efi: mem05: [Boot Code
                                                              |WB|WT|WC|UC]
range=[0x000000000002e000-0x000000000002f000) (0MB)
    0.000000] efi: mem06: [Boot Data
                                                              [WB|WT|WC|UC]
range=[0x000000000002f000-0x0000000000030000) (OMB)
    0.000000] efi: mem07: [Boot Code
                                                              [WB | WT | WC | UC]
range=[0x0000000000030000-0x000000000006f000) (0MB)
    0.000000] efi: mem08: [Boot Data
                                                              |WB|WT|WC|UC]
range=[0x000000000006f000-0x0000000000070000) (0MB)
    0.000000] efi: mem09: [Boot Code
                                                              |WB|WT|WC|UC]
range=[0x0000000000070000-0x0000000000088000)
                                            (0MB)
    0.000000] efi: mem10: [Runtime Data
                                             RUNI
                                                              |WB|WT|WC|UC]
0.000000] efi: mem11: [Loader Data
                                                              |WB|WT|WC|UC]
range=[0x0000000000100000-0x0000000000f2a000) (14MB)
    0.000000] efi: mem12: [Conventional Memory|
                                                              [WB|WT|WC|UC]
range=[0x0000000000f2a000-0x000000012886000) (281MB)
    0.000000] efi: mem13: [Loader Data
                                                              |WB|WT|WC|UC]
```

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range=[0x0000000012886000-0x0000000020000000) (215MB)
     0.000000] efi: mem14: [Reserved
                                                                 |WB|WT|WC|UC]
range=[0x0000000020000000-0x0000000020200000) (2MB)
     0.000000] efi: mem15: [Conventional Memory]
                                                                 |WB|WT|WC|UC]
range=[0x0000000020200000-0x0000000026ac0000) (104MB)
     0.000000] efi: mem16: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x0000000026ac0000-0x0000000026ae0000) (0MB)
     0.000000] efi: mem17: [Conventional Memory|
                                                                 |WB|WT|WC|UC]
range=[0x0000000026ae0000-0x000000030b7f000) (160MB)
     0.000000] efi: mem18: [Boot Data
                                                                 [WB | WT | WC | UC]
range=[0x0000000030b7f000-0x0000000031ab00000) (15MB)
     0.000000] efi: mem19: [Conventional Memory|
                                                                 |WB|WT|WC|UC]
range=[0x0000000031ab0000-0x000000031ca1000) (1MB)
     0.000000] efi: mem20: [Loader Code
                                                                 |WB|WT|WC|UC]
range=[0x0000000031ca1000-0x0000000031cbf000) (0MB)
     0.000000] efi: mem21: [Conventional Memory|
                                                                 |WB|WT|WC|UC]
range=[0x0000000031cbf000-0x0000000036588000) (72MB)
     0.000000] efi: mem22: [Loader Data
                                                                 |WB|WT|WC|UC]
range=[0x0000000036588000-0x0000000368fe000) (3MB)
     0.000000] efi: mem23: [Boot Data
                                                                 [WB|WT|WC|UC]
range=[0x00000000368fe000-0x000000037188000) (8MB)
     0.000000] efi: mem24: [Conventional Memory]
                                                                 |WB|WT|WC|UC]
range=[0x0000000037188000-0x000000037190000) (OMB)
     0.000000] efi: mem25: [Boot Data
                                                                 [WB|WT|WC|UC]
range=[0x0000000037190000-0x0000000037591000) (4MB)
     0.000000] efi: mem26: [Conventional Memory|
                                                                 |WB|WT|WC|UC]
range=[0x0000000037591000-0x0000000037870000) (2MB)
     0.000000] efi: mem27: [Boot Data
                                                                 [WB|WT|WC|UC]
range=[0x0000000037870000-0x00000000378ec000) (0MB)
     0.000000] efi: mem28: [Conventional Memory]
                                                                 [WB|WT|WC|UC]
range=[0x00000000378ec000-0x0000000378f6000) (0MB)
     0.000000] efi: mem29: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x00000000378f6000-0x00000003793d000) (OMB)
     0.000000] efi: mem30: [Conventional Memory|
                                                                 [WB | WT | WC | UC]
range=[0x000000003793d000-0x000000037943000) (0MB)
     0.000000] efi: mem31: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x0000000037943000-0x000000003797e000) (0MB)
     0.000000] efi: mem32: [Conventional Memory|
                                                                 |WB|WT|WC|UC]
range=[0x000000003797e000-0x000000037982000) (OMB)
     0.000000] efi: mem33: [Boot Data
                                                                 [WB | WT | WC | UC]
range=[0x0000000037982000-0x0000000037984000) (0MB)
     0.000000] efi: mem34: [Conventional Memory|
                                                                 [WB | WT | WC | UC]
range=[0x0000000037984000-0x000000037985000) (0MB)
     0.000000] efi: mem35: [Boot Data
                                                                 [WB|WT|WC|UC]
range=[0x0000000037985000-0x00000000379bc000) (0MB)
     0.000000] efi: mem36: [Conventional Memory|
                                                                 [WB|WT|WC|UC]
range=[0x00000000379bc000-0x0000000379be000) (0MB)
     0.000000] efi: mem37: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x00000000379be000-0x0000000379cc000) (0MB)
     0.000000] efi: mem38: [Conventional Memory|
                                                                 [WB|WT|WC|UC]
range=[0x00000000379cc000-0x0000000379d2000) (0MB)
     0.000000] efi: mem39: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x00000000379d2000-0x0000000379d9000) (OMB)
     0.000000] efi: mem40: [Conventional Memory]
                                                                 |WB|WT|WC|UC]
range=[0x00000000379d9000-0x00000000379da000) (0MB)
     0.000000] efi: mem41: [Boot Data
                                                                 |WB|WT|WC|UC]
range=[0x00000000379da000-0x000000037a04000) (0MB)
     0.000000] efi: mem42: [Conventional Memory]
                                                                 [WB|WT|WC|UC]
range=[0x0000000037a04000-0x0000000037a05000) (0MB)
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0.000000] efi: mem43: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037a05000-0x000000037b9f000) (1MB)
    0.000000] efi: mem44: [Conventional Memory]
                                                                |WB|WT|WC|UC]
range=[0x0000000037b9f000-0x000000037ba0000) (OMB)
    0.000000] efi: mem45: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037ba0000-0x000000037bc8000) (OMB)
    0.000000] efi: mem46: [Conventional Memory]
                                                                [WB|WT|WC|UC]
range=[0x0000000037bc8000-0x000000037bc9000) (OMB)
    0.000000] efi: mem47: [Boot Data
                                                                [WB | WT | WC | UC]
range=[0x0000000037bc9000-0x0000000037bcc000) (0MB)
    0.000000] efi: mem48: [Conventional Memory|
                                                                [WB | WT | WC | UC]
range=[0x0000000037bcc000-0x0000000037bce000) (0MB)
    0.000000] efi: mem49: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037bce000-0x000000037c1f000) (0MB)
    0.000000] efi: mem50: [Conventional Memory]
                                                                |WB|WT|WC|UC]
range=[0x0000000037c1f000-0x000000037c26000) (OMB)
    0.000000] efi: mem51: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037c26000-0x000000037c51000) (0MB)
    0.000000] efi: mem52: [Conventional Memory]
                                                                |WB|WT|WC|UC]
range=[0x0000000037c51000-0x000000037c52000) (0MB)
    0.000000] efi: mem53: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037c52000-0x000000037c80000) (OMB)
    0.000000] efi: mem54: [Conventional Memory|
                                                                [WB|WT|WC|UC]
range=[0x0000000037c80000-0x000000037c81000) (OMB)
    0.000000] efi: mem55: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x0000000037c81000-0x000000039cbf000) (32MB)
    0.000000] efi: mem56: [Conventional Memory|
                                                                |WB|WT|WC|UC]
range=[0x0000000039cbf000-0x000000003a104000) (4MB)
    0.000000] efi: mem57: [Loader Data
                                                                [WB|WT|WC|UC]
range=[0x000000003a104000-0x00000003a10e000) (0MB)
    0.000000] efi: mem58: [Boot Code
                                                                |WB|WT|WC|UC]
range=[0x000000003a10e000-0x00000003a4bf000) (3MB)
    0.000000] efi: mem59: [Runtime Code
                                                                |WB|WT|WC|UC]
                                               IRUNI
range=[0x000000003a4bf000-0x00000003a8bf000) (4MB)
    0.000000] efi: mem60: [Runtime Data
                                               | RUN |
                                                                |WB|WT|WC|UC]
range=[0x000000003a8bf000-0x00000003aabf000) (2MB)
    0.000000] efi: mem61: [Reserved
                                                                [WB|WT|WC|UC]
range=[0x000000003aabf000-0x00000003aebf000) (4MB)
    0.000000] efi: mem62: [ACPI Memory NVS
                                                                [WB | WT | WC | UC]
range=[0x000000003aebf000-0x00000003afbf000) (1MB)
    0.000000] efi: mem63: [ACPI Reclaim Memory|
                                                                [WB | WT | WC | UC]
range=[0x000000003afbf000-0x000000003afff000) (0MB)
    0.000000] efi: mem64: [Boot Data
                                                                |WB|WT|WC|UC]
range=[0x000000003afff000-0x000000003b0000000) (0MB)
    0.000000] efi: mem65: [Conventional Memory|
                                                                [WB|WT|WC|UC]
range=[0x0000000100000000-0x000000023f600000) (5110MB)
    0.000000] efi: mem66: [Reserved
0.000000] efi: mem67: [Reserved
range=[0x000000003b0000000-0x000000003fa00000) (74MB)
    0.000000] efi: mem68: [Memory Mapped I/0
                                               |RUN|
                                                                          [UC]
range=[0x00000000e0000000-0x0000000f0000000) (256MB)
    0.000000] efi: mem69: [Memory Mapped I/0
                                               RUN
                                                                         |UC]
range=[0x00000000feb00000-0x00000000feb04000) (0MB)
    0.000000] efi: mem70: [Memory Mapped I/0
                                                                          [UC]
                                               RUN
range=[0x000000000fec00000-0x00000000fec01000) (OMB)
    0.000000] efi: mem71: [Memory Mapped I/0
                                               | RUN |
                                                                          [UC]
range=[0x00000000fed10000-0x0000000fed1a000) (0MB)
    0.000000] efi: mem72: [Memory Mapped I/0
                                               | RUN |
                                                                          [UC]
```

```
range=[0x00000000fed1c000-0x0000000fed20000) (0MB)
     0.000000] efi: mem73: [Memory Mapped I/0
                                               | RUN |
                                                     range=[0x00000000fee00000-0x00000000fee01000) (0MB)
     0.000000] efi: mem74: [Memory Mapped I/0
                                                     | | | | | | 1
                                              | RUN |
range=[0x000000000ffb80000-0x0000000100000000) (4MB)
     0.0000001 SMBIOS 2.7 present.
     0.000000] DMI: Hewlett-Packard HP ENVY m6 Notebook PC/18A5, BIOS F.26
05/14/2014
    0.000000] e820: update [mem 0x00000000-0x000000fff] usable ==> reserved
    0.000000] e820: remove [mem 0x000a0000-0x000fffff] usable
    0.000000] AGP: No AGP bridge found
    0.000000] e820: last_pfn = 0x23f600 max_arch_pfn = 0x4000000000
     0.000000] MTRR default type: uncachable
    0.000000] MTRR fixed ranges enabled:
    0.000000]
                00000-9FFFF write-back
    0.000000]
                A0000-BFFFF uncachable
    0.000000]
                C0000-E7FFF write-protect
    0.000000]
                E8000-EFFFF write-combining
    0.0000001
                F0000-FFFFF write-protect
    0.000000] MTRR variable ranges enabled:
                0 base 000000000 mask FC0000000 write-back
    0.0000001
                1 base 03B000000 mask FFF000000 uncachable
    0.0000001
    0.0000001
                2 base 03C000000 mask FFC000000 uncachable
                3 base 0FF800000 mask FFF800000 write-protect
    0.000000]
                4 base 100000000 mask F00000000 write-back
    0.000000]
    0.000000]
                5 base 200000000 mask FC0000000 write-back
    0.000000]
                6 base 23F600000 mask FFFE00000 uncachable
                7 base 23F800000 mask FFF800000 uncachable
    0.000000]
                8 disabled
    0.000000]
    0.0000001
                9 disabled
    0.000000] PAT configuration [0-7]: WB WC UC- UC WB WC UC- UC
    0.000000] e820: last_pfn = 0x3b000 max_arch_pfn = 0x400000000
     0.000000] found SMP MP-table at [mem 0x000fe1b0-0x000fe1bf] mapped at
[ffff8800000fe1b0]
     0.000000] Scanning 1 areas for low memory corruption
    0.000000] Base memory trampoline at [ffff880000022000] 22000 size 24576
    0.000000] reserving inaccessible SNB gfx pages
    0.000000] init_memory_mapping: [mem 0x00000000-0x000fffff]
    0.000000] [mem 0x00000000-0x000fffff] page 4k
    0.000000] BRK [0x01b1d000, 0x01b1dfff] PGTABLE
    0.000000] BRK [0x01b1e000, 0x01b1efff] PGTABLE
    0.000000] BRK [0x01b1f000, 0x01b1ffff] PGTABLE
    0.000000] init_memory_mapping: [mem 0x23f400000-0x23f5fffff]
               [mem 0x23f400000-0x23f5fffff] page 2M
    0.000000]
    0.000000] BRK [0x01b20000, 0x01b20fff] PGTABLE
    0.000000] init_memory_mapping: [mem 0x220000000-0x23f3fffff]
                [mem 0x220000000-0x23f3fffff] page 2M
    0.000000]
    0.000000] init_memory_mapping: [mem 0x200000000-0x21fffffff]
                [mem 0x200000000-0x21fffffff] page 2M
    0.000000]
    0.000000] init_memory_mapping: [mem 0x00100000-0x1fffffff]
    0.0000001
                [mem 0x00100000-0x001fffff] page 4k
    0.0000001
                [mem 0x00200000-0x1fffffff] page 2M
    0.000000] init memory mapping: [mem 0x20200000-0x3a4befff]
    0.000000]
                [mem 0x20200000-0x3a3fffff] page 2M
    0.000000]
                [mem 0x3a400000-0x3a4befff] page 4k
    0.000000] BRK [0x01b21000, 0x01b21fff] PGTABLE
    0.000000] init_memory_mapping: [mem 0x3afff000-0x3affffff]
    0.000000]
              [mem 0x3afff000-0x3affffff] page 4k
     0.000000] BRK [0x01b22000, 0x01b22fff] PGTABLE
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0.000000] init_memory_mapping: [mem 0x100000000-0x1ffffffff]
               [mem 0x100000000-0x1ffffffff] page 2M
     0.0000001
     0.000000] RAMDISK: [mem 0x36588000-0x368fdfff]
     0.000000] ACPI: Early table checksum verification disabled
     0.000000] ACPI: RSDP 0x000000003AFFE014 000024 (v02 HPQ0EM)
     0.000000] ACPI: XSDT 0x000000003AFFE210 0000B4 (v01 HP00EM SLIC-MPC 00000001
HP
     01000013)
     0.000000] ACPI: FACP 0x000000003AFFB000 00010C (v05 HPQ0EM SLIC-MPC 00000001
Γ
HP
     00040000)
     0.000000] ACPI: DSDT 0x000000003AFE7000 010152 (v01 HPQ0EM 18A4
0000000
ACPI 00040000)
Γ
     0.000000] ACPI: FACS 0x000000003AFBA000 000040
Γ
     0.000000] ACPI: UEFI 0x000000003AFFD000 000236 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: ASF! 0x000000003AFFC000 0000A5 (v32 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: HPET 0x000000003AFFA000 000038 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: APIC 0x000000003AFF9000 00008C (v03 HPQ0EM 18A4
                                                                          0000001
Γ
HP
     00040000)
     0.000000] ACPI: MCFG 0x000000003AFF8000 00003C (v01 HPQ0EM 18A4
                                                                          0000001
Γ
ΗP
     00040000)
Γ
     0.000000] ACPI: WDAT 0x000000003AFE6000 000224 (v01 HP00EM 18A4
                                                                          0000001
HP
     00040000)
     0.000000] ACPI: SSDT 0x000000003AFE5000 0006FE (v01 HPQ0EM 18A4
                                                                          00001000
Γ
ACPI 00040000)
     0.000000] ACPI: BOOT 0x000000003AFE3000 000028 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: SSDT 0x000000003AFE2000 0004C1 (v01 HPQ0EM 18A4
                                                                          00001000
ACPI 00040000)
     0.000000] ACPI: ASPT 0x000000003AFE0000 000034 (v07 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: DBGP 0x000000003AFDF000 000034 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: FPDT 0x000000003AFDD000 000044 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: MSDM 0x000000003AFDC000 000055 (v03 HPQ0EM SLIC-MPC 00000001
Γ
HP
     00040000)
     0.000000] ACPI: SSDT 0x000000003AFDB000 0009AA (v01 HPQ0EM 18A4
                                                                          00003000
ACPI 00040000)
     0.000000] ACPI: SSDT 0x000000003AFDA000 000B22 (v01 HPQ0EM 18A4
                                                                          00003000
ACPI 00040000)
     0.000000] ACPI: SSDT 0x000000003AFD7000 001F1F (v01 HPQ0EM 18A4
                                                                          00001000
ACPI 00040000)
     0.000000] ACPI: BGRT 0x000000003AFD9000 000038 (v01 HPQ0EM 18A4
                                                                          0000001
ΗP
     00040000)
     0.000000] ACPI: Local APIC address 0xfee00000
     0.000000] No NUMA configuration found
     0.000000] Faking a node at [mem 0x00000000000000-0x000000023f5fffff]
     0.000000] NODE_DATA(0) allocated [mem 0x23f5f8000-0x23f5fbfff]
                [ffffea000000000-ffffea0008ffffff] PMD -> [ffff880238c00000-
     0.000000]
ffff88023ebfffff] on node 0
     0.0000001 Zone ranges:
     0.000000]
                 DMA
                          [mem 0x0000000000001000-0x0000000000ffffff]
     0.000000]
                 DMA32
                          [mem 0x0000000001000000-0x00000000ffffffff]
     0.000000]
                 Normal
                          [mem 0x0000000100000000-0x000000023f5fffff]
     0.000000] Movable zone start for each node
     0.000000] Early memory node ranges
     0.0000001
                        0: [mem 0x000000000001000-0x000000000087fff]
Γ
                 node
```

```
0.000000]
            node
                   0: [mem 0x000000000100000-0x00000001fffffff]
                   0: [mem 0x0000000020200000-0x000000003a4befff]
0.0000001
            node
0.0000001
            node
                   0: [mem 0x000000003afff000-0x000000003affffff]
0.0000001
            node
                   0: [mem 0x0000000100000000-0x000000023f5fffff]
0.000000] Initmem setup node 0 [mem 0x000000000001000-0x0000000023f5fffff]
0.000000] On node 0 totalpages: 1546311
0.0000001
            DMA zone: 64 pages used for memmap
            DMA zone: 135 pages reserved
0.000000]
            DMA zone: 3975 pages, LIFO batch:0
0.0000001
0.0000001
            DMA32 zone: 3659 pages used for memmap
0.0000001
            DMA32 zone: 234176 pages, LIFO batch:31
            Normal zone: 20440 pages used for memmap
0.000000]
0.0000001
            Normal zone: 1308160 pages, LIFO batch:31
0.000000] Reserving Intel graphics stolen memory at 0x3ba00000-0x3f9fffff
0.000000] ACPI: PM-Timer IO Port: 0x408
0.000000] ACPI: Local APIC address 0xfee00000
0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x01] enabled)
0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x02] enabled)
0.000000] ACPI: LAPIC (acpi_id[0x04] lapic_id[0x03] enabled)
0.000000] ACPI: LAPIC (acpi_id[0x05] lapic_id[0x00] disabled)
0.000000] ACPI: LAPIC (acpi_id[0x06] lapic_id[0x00] disabled)
0.000000] ACPI: LAPIC (acpi_id[0x07] lapic_id[0x00] disabled)
0.000000] ACPI: LAPIC (acpi_id[0x08] lapic_id[0x00] disabled)
0.000000] ACPI: IOAPIC (id[0x00] address[0xfec00000] gsi_base[0])
0.000000] IOAPIC[0]: apic_id 0, version 32, address 0xfec00000, GSI 0-23
0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
0.000000] ACPI: IRQO used by override.
0.000000] ACPI: IRQ9 used by override.
0.000000] Using ACPI (MADT) for SMP configuration information
0.000000] ACPI: HPET id: 0x8086a201 base: 0xfed00000
0.000000] smpboot: Allowing 8 CPUs, 4 hotplug CPUs
0.000000] PM: Registered nosave memory: [mem 0x00000000-0x00000fff]
0.000000] PM: Registered nosave memory: [mem 0x00088000-0x000bffff]
0.000000] PM: Registered nosave memory: [mem 0x000c0000-0x000fffff]
0.000000] PM: Registered nosave memory: [mem 0x20000000-0x201fffff]
0.000000] PM: Registered nosave memory: [mem 0x3a4bf000-0x3a8befff]
0.000000] PM: Registered nosave memory: [mem 0x3a8bf000-0x3aebefff]
0.000000] PM: Registered nosave memory: [mem 0x3aebf000-0x3afbefff]
0.000000] PM: Registered nosave memory: [mem 0x3afbf000-0x3affefff]
0.000000] PM: Registered nosave memory: [mem 0x3b000000-0x3f9fffff]
0.000000] PM: Registered nosave memory: [mem 0x3fa00000-0xdfffffff]
0.000000] PM: Registered nosave memory: [mem 0xe0000000-0xefffffff]
0.000000] PM: Registered nosave memory: [mem 0xf0000000-0xfeafffff]
0.000000] PM: Registered nosave memory: [mem 0xfeb00000-0xfeb03fff]
0.000000] PM: Registered nosave memory: [mem 0xfeb04000-0xfebfffff]
0.000000] PM: Registered nosave memory: [mem 0xfec00000-0xfec00fff]
0.000000] PM: Registered nosave memory: [mem 0xfec01000-0xfed0ffff]
0.000000] PM: Registered nosave memory: [mem 0xfed10000-0xfed19fff]
0.000000] PM: Registered nosave memory: [mem 0xfed1a000-0xfed1bfff]
0.000000] PM: Registered nosave memory: [mem 0xfed1c000-0xfed1ffff]
0.000000] PM: Registered nosave memory: [mem 0xfed20000-0xfedfffff]
0.000000] PM: Registered nosave memory: [mem 0xfee00000-0xfee00fff]
0.000000] PM: Registered nosave memory: [mem 0xfee01000-0xffb7ffff]
0.000000] PM: Registered nosave memory: [mem 0xffb80000-0xffffffff]
0.000000] e820: [mem 0x3fa00000-0xdfffffff] available for PCI devices
0.000000] Booting paravirtualized kernel on bare hardware
0.000000] setup_percpu: NR_CPUS:128 nr_cpumask_bits:128 nr_cpu_ids:8
```

```
nr_node_ids:1
    0.000000] PERCPU: Embedded 31 pages/cpu @ffff88023f200000 s86232 r8192 d32552
    0.000000] pcpu-alloc: s86232 r8192 d32552 u262144 alloc=1*2097152
     0.000000] pcpu-alloc: [0] 0 1 2 3 4 5 6 7
     0.000000] Built 1 zonelists in Node order, mobility grouping on. Total pages:
1522013
     0.000000] Policy zone: Normal
     0.000000] Kernel command line: BOOT_IMAGE=/boot/vmlinuz-linux
root=UUID=b67510d5-b5b5-4747-8cb8-978ec10b7391 rw resume=UUID=bbf593f1-0763-4968-
a073-9f7beebee9c5 quiet
     0.000000] PID hash table entries: 4096 (order: 3, 32768 bytes)
     0.000000] xsave: enabled xstate_bv 0x7, cntxt size 0x340 using standard form
    0.000000] AGP: Checking aperture...
    0.000000] AGP: No AGP bridge found
    0.000000] Calgary: detecting Calgary via BIOS EBDA area
    0.000000] Calgary: Unable to locate Rio Grande table in EBDA - bailing!
     0.000000] Memory: 5934808K/6185244K available (5629K kernel code, 840K rwdata,
1784K rodata, 1160K init, 1152K bss, 250436K reserved, 0K cma-reserved)
     0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=8, Nodes=1
    0.000000] Preemptible hierarchical RCU implementation.
    0.0000001
                 RCU dyntick-idle grace-period acceleration is enabled.
                 RCU restricting CPUs from NR_CPUS=128 to nr_cpu_ids=8.
    0.0000001
    0.000000] RCU: Adjusting geometry for rcu_fanout_leaf=16, nr_cpu_ids=8
    0.000000] NR_IRQS:8448 nr_irqs:488 16
    0.000000] Console: colour dummy device 80x25
    0.000000] console [tty0] enabled
    0.000000] hpet clockevent registered
    0.000000] tsc: Fast TSC calibration using PIT
    0.000000] tsc: Detected 2394.691 MHz processor
     0.000035] Calibrating delay loop (skipped), value calculated using timer
frequency.. 4791.93 BogoMIPS (lpj=7982303)
     0.000037] pid_max: default: 32768 minimum: 301
     0.000043] ACPI: Core revision 20150204
    0.011812 ACPI: All ACPI Tables successfully acquired
    0.066706] Security Framework initialized
    0.066714] Yama: becoming mindful.
    0.067224] Dentry cache hash table entries: 1048576 (order: 11, 8388608 bytes)
    0.068859] Inode-cache hash table entries: 524288 (order: 10, 4194304 bytes)
    0.069576] Mount-cache hash table entries: 16384 (order: 5, 131072 bytes)
    0.069587] Mountpoint-cache hash table entries: 16384 (order: 5, 131072 bytes)
    0.069805] Initializing cgroup subsys blkio
    0.069808] Initializing cgroup subsys memory
    0.069815] Initializing cgroup subsys devices
    0.069817] Initializing cgroup subsys freezer
    0.069819] Initializing cgroup subsys net_cls
    0.069841] CPU: Physical Processor ID: 0
    0.069842] CPU: Processor Core ID: 0
    0.069846] ENERGY_PERF_BIAS: Set to 'normal', was 'performance'
    0.069847] ENERGY_PERF_BIAS: View and update with x86_energy_perf_policy(8)
    0.069849] mce: CPU supports 7 MCE banks
    0.069860] CPU0: Thermal monitoring enabled (TM1)
    0.069865] process: using mwait in idle threads
    0.069869] Last level iTLB entries: 4KB 512, 2MB 8, 4MB 8
    0.069870] Last level dTLB entries: 4KB 512, 2MB 32, 4MB 32, 1GB 0
    0.069973] Freeing SMP alternatives memory: 20K (fffffff819f6000 -
ffffffff819fb000)
    0.070990] Ignoring BGRT: invalid status 0 (expected 1)
     0.072805] ftrace: allocating 21316 entries in 84 pages
Γ
```

```
0.083303] x2apic: IRQ remapping doesn't support X2APIC mode
    0.083759] ..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1 0.116798] TSC deadline timer enabled
    0.116802] smpboot: CPU0: Intel(R) Core(TM) i3-2370M CPU @ 2.40GHz (fam: 06,
model: 2a, stepping: 07)
    0.116829] Performance Events: PEBS fmt1+, 16-deep LBR, SandyBridge events,
full-width counters, Intel PMU driver.
     0.116851] ... version:
                                           3
    0.116852] ... bit width:
                                           48
    0.116853] ... generic registers:
                                           4
                                           0000fffffffffff
    0.116854] ... value mask:
    0.116855] ... max period:
                                           0000ffffffffffff
    0.116856] ... fixed-purpose events:
    0.116857] ... event mask:
                                           000000070000000f
    0.136986] x86: Booting SMP configuration:
    0.136988] .... node #0, CPUs:
    0.150218 NMI watchdog: enabled on all CPUs, permanently consumes one hw-PMU
counter.
    0.157028] #2 #3
    0.186881] x86: Booted up 1 node, 4 CPUs
    0.186884] smpboot: Total of 4 processors activated (19165.75 BogoMIPS)
    0.190156] devtmpfs: initialized
    0.193856] PM: Registering ACPI NVS region [mem 0x3aebf000-0x3afbefff] (1048576
bytes)
    0.194033] pinctrl core: initialized pinctrl subsystem
    0.194074] RTC time: 9:45:20, date: 06/26/15
    0.194181] NET: Registered protocol family 16
    0.206664] cpuidle: using governor ladder
    0.220018] cpuidle: using governor menu
    0.220095] ACPI: bus type PCI registered
    0.220101] acpiphp: ACPI Hot Plug PCI Controller Driver version: 0.5
    0.220208] PCI: MMCONFIG for domain 0000 [bus 00-ff] at [mem 0xe0000000-
0xeffffff] (base 0xe0000000)
    0.220211] PCI: MMCONFIG at [mem 0xe0000000-0xefffffff] reserved in E820
    0.220525] PCI: Using configuration type 1 for base access
    0.233779] ACPI: Added _OSI(Module Device)
    0.233781] ACPI: Added _OSI(Processor Device)
    0.233782] ACPI: Added _OSI(3.0 _SCP Extensions)
    0.233784] ACPI: Added _OSI(Processor Aggregator Device)
    0.238059] ACPI: Executed 1 blocks of module-level executable AML code
    0.241491] ACPI: Dynamic OEM Table Load:
    0.241502] ACPI: SSDT 0xFFFF88023759B000 00083B (v01 PmRef Cpu0Cst 00003001
INTL 20120913)
    0.242173] ACPI: Dynamic OEM Table Load:
    0.242181] ACPI: SSDT 0xFFFF8802374CC400 000303 (v01 PmRef ApIst
                                                                          00003000
INTL 20120913)
     0.242777] ACPI: Dynamic OEM Table Load:
     0.242784] ACPI: SSDT 0xFFFF8802374C6C00 000119 (v01 PmRef ApCst
                                                                          00003000
INTL 20120913)
     0.244171] ACPI: Interpreter enabled
     0.244179] ACPI Exception: AE_NOT_FOUND, While evaluating Sleep State [\_S1_]
(20150204/hwxface-580)
    0.244184] ACPI Exception: AE_NOT_FOUND, While evaluating Sleep State [\_S2_]
(20150204/hwxface-580)
    0.244199] ACPI: (supports S0 S3 S4 S5)
    0.244200] ACPI: Using IOAPIC for interrupt routing
    0.244227] PCI: Using host bridge windows from ACPI; if necessary, use
"pci=nocrs" and report a bug
    0.385104] acpi ABCD0000:00: ACPI dock station (docks/bays count: 1)
```

```
0.388027] ACPI: Power Resource [FN00] (off)
     0.388133] ACPI: Power Resource [FN01] (off)
     0.388234] ACPI: Power Resource [FN02] (off)
     0.388335] ACPI: Power Resource [FN03] (off)
     0.388435] ACPI: Power Resource [FN04] (off)
     0.389123] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-fe])
     0.389128] acpi PNP0A08:00: _OSC: OS supports [ExtendedConfig ASPM ClockPM
Segments MSI]
     0.389241] \_SB_.PCIO:_OSC invalid UUID
     0.389242] _OSC request data:1 1f 0
     0.389246] acpi PNP0A08:00: _OSC failed (AE_ERROR); disabling ASPM
     0.389671] PCI host bridge to bus 0000:00
     0.389674] pci_bus 0000:00: root bus resource [bus 00-fe]
     0.389676] pci_bus 0000:00: root bus resource [io 0x0000-0x0cf7 window]
     0.389678 pci_bus 0000:00: root bus resource [io 0x0d00-0xffff window]
     0.389680] pci_bus 0000:00: root bus resource [mem 0x000a0000-0x000bffff
window]
     0.389682] pci_bus 0000:00: root bus resource [mem 0x3fa00000-0xfeafffff
windowl
     0.389690] pci 0000:00:00.0: [8086:0104] type 00 class 0x060000
     0.389778] pci 0000:00:01.0: [8086:0101] type 01 class 0x060400
     0.389813] pci 0000:00:01.0: PME# supported from D0 D3hot D3cold
     0.389850] pci 0000:00:01.0: System wakeup disabled by ACPI
     0.389893] pci 0000:00:02.0: [8086:0116] type 00 class 0x030000
     0.389903] pci 0000:00:02.0: reg 0x10: [mem 0x61000000-0x613fffff 64bit]
     0.389909] pci 0000:00:02.0: reg 0x18: [mem 0x50000000-0x5fffffff 64bit pref]
     0.389914] pci 0000:00:02.0: reg 0x20: [io 0x4000-0x403f]
     0.390016] pci 0000:00:14.0: [8086:1e31] type 00 class 0x0c0330
     0.390039 pci 0000:00:14.0: reg 0x10: [mem 0x61700000-0x6170ffff 64bit]
     0.390114] pci 0000:00:14.0: PME# supported from D3hot D3cold
     0.390174] pci 0000:00:14.0: System wakeup disabled by ACPI
     0.390221] pci 0000:00:16.0: [8086:1e3a] type 00 class 0x078000
     0.390245] pci 0000:00:16.0: req 0x10: [mem 0x61714000-0x6171400f 64bit]
     0.390326] pci 0000:00:16.0: PME# supported from D0 D3hot D3cold
     0.390419] pci 0000:00:1a.0: [8086:1e2d] type 00 class 0x0c0320
     0.390441] pci 0000:00:1a.0: reg 0x10: [mem 0x61719000-0x617193ff]
     0.390535] pci 0000:00:1a.0: PME# supported from D0 D3hot D3cold
     0.390590] pci 0000:00:1a.0: System wakeup disabled by ACPI
     0.390636] pci 0000:00:1b.0: [8086:1e20] type 00 class 0x040300
     0.390654] pci 0000:00:1b.0: reg 0x10: [mem 0x61710000-0x61713fff 64bit]
     0.390732] pci 0000:00:1b.0: PME# supported from D0 D3hot D3cold
     0.390773] pci 0000:00:1b.0: System wakeup disabled by ACPI
     0.390813] pci 0000:00:1c.0: [8086:1e10] type 01 class 0x060400
     0.390900] pci 0000:00:1c.0: PME# supported from D0 D3hot D3cold
     0.390943] pci 0000:00:1c.0: System wakeup disabled by ACPI
     0.390983] pci 0000:00:1c.1: [8086:1e12] type 01 class 0x060400
     0.391069] pci 0000:00:1c.1: PME# supported from D0 D3hot D3cold
     0.391114] pci 0000:00:1c.1: System wakeup disabled by ACPI
     0.391164] pci 0000:00:1d.0: [8086:1e26] type 00 class 0x0c0320
     0.391186] pci 0000:00:1d.0: reg 0x10: [mem 0x61718000-0x617183ff]
     0.391280] pci 0000:00:1d.0: PME# supported from D0 D3hot D3cold
     0.391344] pci 0000:00:1d.0: System wakeup disabled by ACPI
     0.391386] pci 0000:00:1f.0: [8086:1e57] type 00 class 0x060100
     0.391565] pci 0000:00:1f.2: [8086:282a] type 00 class 0x010400
     0.391585] pci 0000:00:1f.2: reg 0x10: [io 0x4088-0x408f]
0.391594] pci 0000:00:1f.2: reg 0x14: [io 0x4094-0x4097]
0.391602] pci 0000:00:1f.2: reg 0x18: [io 0x4080-0x4087]
     0.391610] pci 0000:00:1f.2: reg 0x1c: [io 0x4090-0x4093]
     0.391619] pci 0000:00:1f.2: reg 0x20: [io 0x4060-0x407f]
```

```
0.391627] pci 0000:00:1f.2: reg 0x24: [mem 0x61717000-0x617177ff]
    0.391676] pci 0000:00:1f.2: PME# supported from D3hot
    0.391750] pci 0000:00:1f.3: [8086:1e22] type 00 class 0x0c0500
    0.391767] pci 0000:00:1f.3: reg 0x10: [mem 0x61715000-0x617150ff 64bit]
     0.391789] pci 0000:00:1f.3: reg 0x20: [io 0x4040-0x405f]
    0.391930] pci 0000:01:00.0: [1002:6840] type 00 class 0x030000
    0.391941] pci 0000:01:00.0: reg 0x10: [mem 0x40000000-0x4fffffff 64bit pref]
    0.391949] pci 0000:01:00.0: reg 0x18: [mem 0x60000000-0x6001ffff 64bit]
    0.391954] pci 0000:01:00.0: reg 0x20: [io 0x3000-0x30ff]
    0.391962] pci 0000:01:00.0: reg 0x30: [mem 0xfffe0000-0xffffffff pref]
    0.391993] pci 0000:01:00.0: supports D1 D2
    0.392057] pci 0000:01:00.0: System wakeup disabled by ACPI
    0.397046] pci 0000:00:01.0: PCI bridge to [bus 01-06]
    0.397055] pci 0000:00:01.0:
                                   bridge window [io 0x3000-0x3fff]
    0.397062] pci 0000:00:01.0:
                                   bridge window [mem 0x60000000-0x60ffffff]
    0.397072] pci 0000:00:01.0:
                                   bridge window [mem 0x40000000-0x4fffffff 64bit
pref1
    0.397209] pci 0000:07:00.0: [10ec:5289] type 00 class 0xff0000
    0.397236] pci 0000:07:00.0: reg 0x10: [mem 0x61600000-0x6160ffff]
    0.397416] pci 0000:07:00.0: supports D1 D2
    0.397417] pci 0000:07:00.0: PME# supported from D1 D2 D3hot D3cold
    0.397506] pci 0000:07:00.2: [10ec:8168] type 00 class 0x020000
    0.397530] pci 0000:07:00.2: reg 0x10: [io 0x2000-0x20ff]
    0.397565] pci 0000:07:00.2: reg 0x18: [mem 0x61404000-0x61404fff 64bit pref]
    0.397587] pci 0000:07:00.2: reg 0x20: [mem 0x61400000-0x61403fff 64bit pref]
    0.397693] pci 0000:07:00.2: supports D1 D2
    0.397694] pci 0000:07:00.2: PME# supported from D0 D1 D2 D3hot D3cold
    0.397745] pci 0000:07:00.2: System wakeup disabled by ACPI
    0.403747] pci 0000:00:1c.0: PCI bridge to [bus 07]
    0.403758] pci 0000:00:1c.0: bridge window [io 0x2000-0x2fff]
    0.403767] pci 0000:00:1c.0:
                                   bridge window [mem 0x61600000-0x616fffff]
     0.403782] pci 0000:00:1c.0:
                                   bridge window [mem 0x61400000-0x614fffff 64bit
pref]
    0.404002] pci 0000:08:00.0: [8086:08b1] type 00 class 0x028000
     0.404062 pci 0000:08:00.0: reg 0x10: [mem 0x61500000-0x61501fff 64bit]
    0.404368] pci 0000:08:00.0: PME# supported from D0 D3hot D3cold
    0.404436] pci 0000:08:00.0: System wakeup disabled by ACPI
    0.410467] pci 0000:00:1c.1: PCI bridge to [bus 08]
    0.410483] pci 0000:00:1c.1:
                                   bridge window [mem 0x61500000-0x615fffff]
    0.481006] ACPI: PCI Interrupt Link [LNKA] (IRQs 1 3 4 5 6 10 11 12 14 15) *7
    0.481056] ACPI: PCI Interrupt Link [LNKB] (IRQs 1 3 4 5 6 10 *11 12 14 15)
     0.481102] ACPI: PCI Interrupt Link [LNKC] (IRQs 1 3 4 5 6 10 11 12 14 15) *0,
disabled.
    0.481149] ACPI: PCI Interrupt Link [LNKD] (IRQs 1 3 4 5 6 *10 11 12 14 15)
    0.481195] ACPI: PCI Interrupt Link [LNKE] (IRQs 1 3 4 5 6 10 *11 12 14 15)
    0.481241] ACPI: PCI Interrupt Link [LNKF] (IRQs 1 3 4 5 6 10 11 12 14 15) *7
     0.481288] ACPI: PCI Interrupt Link [LNKG] (IRQs 1 3 4 5 6 *10 11 12 14 15)
     0.481333] ACPI: PCI Interrupt Link [LNKH] (IRQs 1 3 4 5 6 10 11 12 14 15) *0,
disabled.
     0.481678] ACPI: Enabled 5 GPEs in block 00 to 3F
    0.481716] ACPI : EC: GPE = 0x17, I/O: command/status = 0x66, data = 0x62
    0.481820] vgaarb: setting as boot device: PCI:0000:00:02.0
     0.481822] vgaarb: device added:
PCI:0000:00:02.0, decodes=io+mem, owns=io+mem, locks=none
    0.481826] vgaarb: device added:
PCI:0000:01:00.0, decodes=io+mem, owns=none, locks=none
    0.481827] vgaarb: loaded
     0.481829] vgaarb: bridge control possible 0000:01:00.0
     0.481830 | vgaarb: no bridge control possible 0000:00:02.0
```

```
0.481961] PCI: Using ACPI for IRQ routing
    0.488448] PCI: pci_cache_line_size set to 64 bytes
    0.488518] e820: reserve RAM buffer [mem 0x00088000-0x0008ffff]
    0.488520] e820: reserve RAM buffer [mem 0x3a4bf000-0x3bffffff]
     0.488522] e820: reserve RAM buffer [mem 0x3b000000-0x3bffffff]
     0.488523] e820: reserve RAM buffer [mem 0x23f600000-0x23fffffff]
    0.488634] NetLabel: Initializing
    0.488636] NetLabel: domain hash size = 128
    0.488636] NetLabel:
                         protocols = UNLABELED CIPSOv4
    0.488649] NetLabel: unlabeled traffic allowed by default
    0.488675] hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0, 0, 0, 0, 0, 0
    0.488681] hpet0: 8 comparators, 64-bit 14.318180 MHz counter
    0.490711] Switched to clocksource hpet
    0.495427] pnp: PnP ACPI init
    0.495560] system 00:00: [io 0x0680-0x069f] has been reserved
    0.495563] system 00:00: [io 0x1000-0x100f] has been reserved
    0.495565] system 00:00: [io 0xffff] has been reserved
    0.495567] system 00:00: [io 0xffff] has been reserved
    0.495569] system 00:00: [io 0x0400-0x0453] could not be reserved
    0.495571] system 00:00: [io 0x0458-0x047f] has been reserved
    0.495575] system 00:00: [io 0x0500-0x057f] has been reserved
    0.495577] system 00:00: [io 0x164e-0x164f] has been reserved
    0.495581] system 00:00: Plug and Play ACPI device, IDs PNP0c02 (active)
    0.495614] pnp 00:01: Plug and Play ACPI device, IDs PNP0b00 (active)
    0.495662] system 00:02: [io 0x0454-0x0457] has been reserved
    0.495665] system 00:02: Plug and Play ACPI device, IDs INT3f0d PNP0c02
(active)
    0.495700] pnp 00:03: Plug and Play ACPI device, IDs HPQ8001 PNP0303 (active)
     0.495730] pnp 00:04: Plug and Play ACPI device, IDs SYN1e76 SYN1e00 SYN0002
PNP0f13 (active)
    0.564331] system 00:05: [mem 0xfed1c000-0xfed1ffff] has been reserved
    0.564334] system 00:05: [mem 0xfed10000-0xfed17fff] has been reserved
    0.564336] system 00:05: [mem 0xfed18000-0xfed18fff] has been reserved
    0.564338] system 00:05: [mem 0xfed19000-0xfed19fff] has been reserved
    0.564340] system 00:05: [mem 0xe0000000-0xefffffff] has been reserved
    0.564341] system 00:05: [mem 0xfed20000-0xfed3ffff] has been reserved
    0.564343] system 00:05: [mem 0xfed90000-0xfed93fff] has been reserved
    0.564345] system 00:05: [mem 0xff000000-0xff000fff] has been reserved
    0.564347] system 00:05: [mem 0xff010000-0xffffffff] could not be reserved
    0.564349] system 00:05: [mem 0xfee00000-0xfeefffff] could not be reserved
    0.564351] system 00:05: [mem 0x3fa00000-0x3fa00fff] has been reserved
    0.564354] system 00:05: Plug and Play ACPI device, IDs PNP0c02 (active)
     0.564682] pnp 00:06: disabling [mem 0x40000000-0x401fffff] because it overlaps
0000:00:01.0 BAR 15 [mem 0x40000000-0x4fffffff 64bit pref]
     0.564688] pnp 00:06: disabling [mem 0x40000000-0x401fffff disabled] because it
overlaps 0000:01:00.0 BAR 0 [mem 0x40000000-0x4fffffff 64bit pref]
     0.564708] system 00:06: [mem 0x20000000-0x201fffff] has been reserved
    0.564711] system 00:06: Plug and Play ACPI device, IDs PNP0c01 (active)
    0.564798] pnp: PnP ACPI: found 7 devices
     0.571182] pci 0000:01:00.0: can't claim BAR 6 [mem 0xfffe0000-0xffffffff
pref]: no compatible bridge window
     0.571211] pci 0000:01:00.0: BAR 6: assigned [mem 0x60020000-0x6003ffff pref]
    0.571213] pci 0000:00:01.0: PCI bridge to [bus 01-06]
    0.571215] pci 0000:00:01.0:
                                  bridge window [io 0x3000-0x3fff]
                                  bridge window [mem 0x60000000-0x60ffffff]
    0.571219] pci 0000:00:01.0:
    0.571221] pci 0000:00:01.0:
                                  bridge window [mem 0x40000000-0x4fffffff 64bit
pref]
     0.571225] pci 0000:00:1c.0: PCI bridge to [bus 07]
     0.571228] pci 0000:00:1c.0: bridge window [io 0x2000-0x2fff]
```

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0.571234] pci 0000:00:1c.0:
                                  bridge window [mem 0x61600000-0x616fffff]
    0.571238] pci 0000:00:1c.0:
                                  bridge window [mem 0x61400000-0x614fffff 64bit
pref1
    0.571245] pci 0000:00:1c.1: PCI bridge to [bus 08]
     0.571250] pci 0000:00:1c.1:
                                   bridge window [mem 0x61500000-0x615fffff]
     0.571259] pci_bus 0000:00: resource 4 [io 0x0000-0x0cf7 window]
    0.571261] pci_bus 0000:00: resource 5 [io 0x0d00-0xffff window]
    0.571263] pci_bus 0000:00: resource 6 [mem 0x000a0000-0x000bffff window]
    0.571265] pci_bus 0000:00: resource 7 [mem 0x3fa00000-0xfeafffff window]
    0.571267] pci_bus 0000:01: resource 0 [io 0x3000-0x3fff]
    0.571268] pci_bus 0000:01: resource 1 [mem 0x60000000-0x60ffffff]
    0.571270] pci_bus 0000:01: resource 2 [mem 0x40000000-0x4fffffff 64bit pref]
    0.571272] pci_bus 0000:07: resource 0 [io 0x2000-0x2fff]
    0.571274] pci_bus 0000:07: resource 1 [mem 0x61600000-0x616fffff]
    0.571275] pci_bus 0000:07: resource 2 [mem 0x61400000-0x614fffff 64bit pref]
    0.571277] pci_bus 0000:08: resource 1 [mem 0x61500000-0x615fffff]
    0.571308] NET: Registered protocol family 2
    0.571509] TCP established hash table entries: 65536 (order: 7, 524288 bytes)
    0.571666] TCP bind hash table entries: 65536 (order: 8, 1048576 bytes)
    0.571794] TCP: Hash tables configured (established 65536 bind 65536)
    0.571817] TCP: reno registered
    0.571828] UDP hash table entries: 4096 (order: 5, 131072 bytes)
    0.571858] UDP-Lite hash table entries: 4096 (order: 5, 131072 bytes)
    0.571924] NET: Registered protocol family 1
    0.571943] pci 0000:00:02.0: Video device with shadowed ROM
    0.951295] PCI: CLS 64 bytes, default 64
    0.951345] Unpacking initramfs...
    1.013178 Freeing initrd memory: 3544K (ffff880036588000 - ffff8800368fe000)
    1.013189 PCI-DMA: Using software bounce buffering for IO (SWIOTLB)
    1.013191] software IO TLB [mem 0x32588000-0x36588000] (64MB) mapped at
[ffff880032588000-ffff880036587fff]
     1.013221] Simple Boot Flag at 0x44 set to 0x1
     1.013400 RAPL PMU detected, hw unit 2^-16 Joules, API unit is 2^-32 Joules, 3
fixed counters 163840 ms ovfl timer
     1.013452] microcode: CPU0 sig=0x206a7, pf=0x10, revision=0x28
    1.013459] microcode: CPU1 sig=0x206a7, pf=0x10, revision=0x28
    1.013468] microcode: CPU2 sig=0x206a7, pf=0x10, revision=0x28
    1.013476] microcode: CPU3 sig=0x206a7, pf=0x10, revision=0x28
     1.013532] microcode: Microcode Update Driver: v2.00
<tigran@aivazian.fsnet.co.uk>, Peter Oruba
     1.013557] Scanning for low memory corruption every 60 seconds
    1.013842] futex hash table entries: 2048 (order: 5, 131072 bytes)
    1.013866] Initialise system trusted keyring
    1.014196] HugeTLB registered 2 MB page size, pre-allocated 0 pages
    1.015633] zpool: loaded
    1.015636] zbud: loaded
    1.015808] VFS: Disk quotas dquot_6.5.2
    1.015844] VFS: Dquot-cache hash table entries: 512 (order 0, 4096 bytes)
    1.016014] Key type big_key registered
    1.016232] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 252)
    1.016273] io scheduler noop registered
    1.016276] io scheduler deadline registered
    1.016305] io scheduler cfq registered (default)
    1.016738] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
    1.016754] pciehp: PCI Express Hot Plug Controller Driver version: 0.4
    1.016770] efifb: probing for efifb
    1.016786] efifb: framebuffer at 0x50000000, mapped to 0xffffc90010f00000,
using 4160k, total 4160k
     1.016788] efifb: mode is 1366x768x32, linelength=5504, pages=1
```

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1.016789] efifb: scrolling: redraw
     1.016791] efifb: Truecolor: size=8:8:8:8, shift=24:16:8:0
     1.019467] Console: switching to colour frame buffer device 170x48
     1.021958] fb0: EFI VGA frame buffer device
     1.021967] intel_idle: MWAIT substates: 0x21120
     1.021968] intel idle: v0.4 model 0x2A
     1.021970] intel_idle: lapic_timer_reliable_states 0xffffffff
     1.022158] GHES: HEST is not enabled!
     1.022216] Serial: 8250/16550 driver, 4 ports, IRQ sharing disabled
     1.022624] Linux agpgart interface v0.103
     1.022679] rtc_cmos 00:01: RTC can wake from S4
     1.022806] rtc_cmos 00:01: rtc core: registered rtc_cmos as rtc0
     1.022836] rtc_cmos 00:01: alarms up to one month, 242 bytes nvram, hpet irqs
     1.022848] Intel P-state driver initializing.
     1.022984] ledtrig-cpu: registered to indicate activity on CPUs
    1.023545] TCP: cubic registered
     1.023841] NET: Registered protocol family 10
     1.024342] NET: Registered protocol family 17
     1.025143] Loading compiled-in X.509 certificates
     1.025181] registered taskstats version 1
                 Magic number: 3:144:779
     1.026210]
     1.026360] rtc_cmos 00:01: setting system clock to 2015-06-26 09:45:21 UTC
(1435311921)
     1.026591] PM: Checking hibernation image partition UUID=bbf593f1-0763-4968-
a073-9f7beebee9c5
     1.026598] PM: Hibernation image not present or could not be loaded.
     1.027215] Freeing unused kernel memory: 1160K (fffffffff818d4000 -
ffffffff819f6000)
     1.027220] Write protecting the kernel read-only data: 8192k
     1.027894] Freeing unused kernel memory: 504K (ffff880001582000 -
ffff880001600000)
     1.028096] Freeing unused kernel memory: 264K (ffff8800017be000 -
ffff880001800000)
     1.045392] random: systemd-tmpfile urandom read with 1 bits of entropy
available
     1.183484] i8042: PNP: PS/2 Controller [PNP0303:PS2K,PNP0f13:PS2M] at 0x60,0x64
irq 1,12
     1.218318] serio: i8042 KBD port at 0x60,0x64 irq 1
     1.218409] serio: i8042 AUX port at 0x60,0x64 irg 12
     1.218598] rtsx_pci 0000:07:00.0: rtsx_pci_acquire_irq: pcr->msi_en = 1, pci-
>irq = 25
     1.219740] ACPI: bus type USB registered
E
     1.219768] usbcore: registered new interface driver usbfs
     1.219781] usbcore: registered new interface driver hub
     1.219819] usbcore: registered new device driver usb
     1.220433] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
     1.220694] ehci-pci: EHCI PCI platform driver
     1.220880] ehci-pci 0000:00:1a.0: EHCI Host Controller
     1.220888] ehci-pci 0000:00:1a.0: new USB bus registered, assigned bus number 1
     1.220904] ehci-pci 0000:00:1a.0: debug port 2
     1.224803] ehci-pci 0000:00:1a.0: cache line size of 64 is not supported
     1.224822] ehci-pci 0000:00:1a.0: irq 16, io mem 0x61719000
     1.234700] ehci-pci 0000:00:1a.0: USB 2.0 started, EHCI 1.00
     1.234915] hub 1-0:1.0: USB hub found
     1.234923] hub 1-0:1.0: 2 ports detected
     1.235148] ehci-pci 0000:00:1d.0: EHCI Host Controller
     1.235153] ehci-pci 0000:00:1d.0: new USB bus registered, assigned bus number 2
     1.235166] ehci-pci 0000:00:1d.0: debug port 2
     1.239066] ehci-pci 0000:00:1d.0: cache line size of 64 is not supported
Γ
```

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1.239080] ehci-pci 0000:00:1d.0: irg 20, io mem 0x61718000
    1.248043] ehci-pci 0000:00:1d.0: USB 2.0 started, EHCI 1.00
    1.248228] hub 2-0:1.0: USB hub found
    1.248238] hub 2-0:1.0: 2 ports detected
    1.248478] xhci_hcd 0000:00:14.0: xHCI Host Controller
    1.248486] xhci_hcd 0000:00:14.0: new USB bus registered, assigned bus number 3
    1.248579] xhci_hcd 0000:00:14.0: hcc params 0x20007181 hci version 0x100
quirks 0x0000b930
    1.248586] xhci_hcd 0000:00:14.0: cache line size of 64 is not supported
    1.248812] hub 3-0:1.0: USB hub found
    1.248823] hub 3-0:1.0: 4 ports detected
    1.249171] xhci_hcd 0000:00:14.0: xHCI Host Controller
    1.249175] xhci_hcd 0000:00:14.0: new USB bus registered, assigned bus number 4
    1.249361 hub 4-0:1.0: USB hub found
    1.249371 hub 4-0:1.0: 4 ports detected
    1.325255] SCSI subsystem initialized
    1.328843] libata version 3.00 loaded.
    1.330688] ahci 0000:00:1f.2: version 3.0
     1.341510] ahci 0000:00:1f.2: AHCI 0001.0300 32 slots 6 ports 6 Gbps 0x7 impl
RAID mode
     1.341520] ahci 0000:00:1f.2: flags: 64bit ncq pm led clo pio slum part ems
apst
    1.355969] scsi host0: ahci
    1.356130] scsi host1: ahci
    1.356309] scsi host2: ahci
    1.356450] scsi host3: ahci
    1.356639] scsi host4: ahci
    1.356827] scsi host5: ahci
    1.356899 ata1: SATA max UDMA/133 abar m2048@0x61717000 port 0x61717100 irg 27
    1.356903] ata2: SATA max UDMA/133 abar m2048@0x61717000 port 0x61717180 irq 27
    1.356907] ata3: SATA max UDMA/133 abar m2048@0x61717000 port 0x61717200 irq 27
    1.356909] ata4: DUMMY
    1.356910] ata5: DUMMY
    1.356912] ata6: DUMMY
     1.393690] input: AT Translated Set 2 keyboard as
/devices/platform/i8042/serio0/input/input0
     1.541783] usb 1-1: new high-speed USB device number 2 using ehci-pci
    1.555126] usb 2-1: new high-speed USB device number 2 using ehci-pci
    1.608472] usb 3-2: new low-speed USB device number 2 using xhci_hcd
    1.666522] hub 1-1:1.0: USB hub found
    1.666669] hub 1-1:1.0: 6 ports detected
    1.675183] ata2: SATA link down (SStatus 0 SControl 300)
    1.675221] ata3: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
    1.677207] ata3.00: ATAPI: hp
                                       DVD RAM UJ8C2, 1.00, max UDMA/133
    1.679928] hub 2-1:1.0: USB hub found
    1.680069] hub 2-1:1.0: 8 ports detected
    1.680595] ata3.00: configured for UDMA/133
    1.681817] ata1: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
    1.683384] ata1.00: ATA-8: Hitachi HTS547575A9E384, JE40A50A, max UDMA/100
    1.683390] ata1.00: 1465149168 sectors, multi 16: LBA48 NCQ (depth 31/32), AA
    1.685001] ata1.00: configured for UDMA/100
    1.685332] scsi 0:0:0:0: Direct-Access
                                              ATA
                                                        Hitachi HTS54757 A50A PQ: 0
    1.687264] scsi 2:0:0:0: CD-ROM
                                               hp
                                                        DVD RAM UJ8C2
                                                                         1.00 PQ: 0
ANSI: 5
    1.700842] sd 0:0:0:0: [sda] 1465149168 512-byte logical blocks: (750 GB/698
GiB)
    1.700849] sd 0:0:0:0: [sda] 4096-byte physical blocks
Γ
     1.700910] sd 0:0:0:0: [sda] Write Protect is off
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1.700915] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
     1.700941 sd 0:0:0:0:[sda] Write cache: enabled, read cache: enabled, doesn't
support DPO or FUA
     1.711916] sr 2:0:0:0: [sr0] scsi3-mmc drive: 24x/24x writer dvd-ram cd/rw
xa/form2 cdda tray
     1.711924 cdrom: Uniform CD-ROM driver Revision: 3.20
     1.712270] sr 2:0:0:0: Attached scsi CD-ROM sr0
     1.738150] sda: sda1 sda2 sda3 sda4
     1.739213] sd 0:0:0:0: [sda] Attached SCSI disk
     1.785665] usb 3-2: ep 0x81 - rounding interval to 64 microframes, ep desc says
80 microframes
     1.789497] hidraw: raw HID events driver (C) Jiri Kosina
     1.792319] usbcore: registered new interface driver usbhid
     1.792325] usbhid: USB HID core driver
     1.793547 input: PixArt USB Optical Mouse as
/devices/pci0000:00/0000:00:14.0/usb3/3-2/3-2:1.0/0003:093A:2510.0001/input/input2
     1.793670] hid-generic 0003:093A:2510.0001: input, hidraw0: USB HID v1.11 Mouse
[PixArt USB Optical Mouse] on usb-0000:00:14.0-2/input0
     1.935620] usb 1-1.1: new high-speed USB device number 3 using ehci-pci
     1.945394] usb 3-4: new full-speed USB device number 3 using xhci_hcd
     2.015410] tsc: Refined TSC clocksource calibration: 2394.560 MHz
     2.225807] usb 1-1.3: new full-speed USB device number 4 using ehci-pci
     2.260377] PM: Starting manual resume from disk
     2.260386] PM: Hibernation image partition 8:2 present
     2.260388] PM: Looking for hibernation image.
     2.272602] PM: Image not found (code -22)
     2.272609] PM: Hibernation image not present or could not be loaded.
     2.786040] EXT4-fs (sda3): mounted filesystem with ordered data mode. Opts:
(null)
     3.016472] Switched to clocksource tsc
     3.365114] random: nonblocking pool is initialized
     4.085317] ip_tables: (C) 2000-2006 Netfilter Core Team
     4.085394] systemd[1]: Inserted module 'ip_tables'
     5.491531] systemd[1]: systemd 221 running in system mode. (+PAM -AUDIT
-SELINUX -IMA -APPARMOR +SMACK -SYSVINIT +UTMP +LIBCRYPTSETUP +GCRYPT +GNUTLS +ACL
+XZ +LZ4 +SECCOMP +BLKID -ELFUTILS +KMOD +IDN)
     5.491843] systemd[1]: Detected architecture x86-64.
     5.500756] systemd[1]: Set hostname to <ordi2>.
     7.088717] systemd[1]: Started Forward Password Requests to Wall Directory
     7.088745] systemd[1]: Starting Forward Password Requests to Wall Directory
Watch.
     7.088814] systemd[1]: Started Dispatch Password Requests to Console Directory
Watch.
     7.088833] systemd[1]: Starting Dispatch Password Requests to Console Directory
Watch.
     7.088882] systemd[1]: Reached target Encrypted Volumes.
     7.088900] systemd[1]: Starting Encrypted Volumes.
     7.089311] systemd[1]: Created slice Root Slice.
     7.089332] systemd[1]: Starting Root Slice.
     7.089417] systemd[1]: Listening on udev Control Socket.
     7.089436] systemd[1]: Starting udev Control Socket.
     7.089453] systemd[1]: Reached target Remote File Systems.
     7.089469] systemd[1]: Starting Remote File Systems.
     7.089715] systemd[1]: Created slice User and Session Slice.
     7.089737] systemd[1]: Starting User and Session Slice.
     7.089798] systemd[1]: Listening on Device-mapper event daemon FIFOs.
     7.089815] systemd[1]: Starting Device-mapper event daemon FIFOs.
     7.089865] systemd[1]: Listening on LVM2 metadata daemon socket.
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7.089882] systemd[1]: Starting LVM2 metadata daemon socket.
     7.089941] systemd[1]: Listening on Journal Socket (/dev/log).
     7.089958] systemd[1]: Starting Journal Socket (/dev/log).
    7.090019] systemd[1]: Listening on Journal Socket.
    7.090045] systemd[1]: Starting Journal Socket.
     7.148373] systemd[1]: Listening on Journal Audit Socket.
    7.148522] systemd[1]: Listening on /dev/initctl Compatibility Named Pipe.
    7.148547] systemd[1]: Starting /dev/initctl Compatibility Named Pipe.
    7.148618] systemd[1]: Listening on udev Kernel Socket.
    7.148638] systemd[1]: Starting udev Kernel Socket.
    7.148953] systemd[1]: Created slice System Slice.
    7.148989] systemd[1]: Starting System Slice.
    7.149018] systemd[1]: Started File System Check on Root Device.
    7.149044] systemd[1]: Reached target Slices.
    7.149062] systemd[1]: Starting Slices.
    7.150075] systemd[1]: Mounting Debug File System...
    7.151026] systemd[1]: Mounting Huge Pages File System...
    7.152296] systemd[1]: Starting Remount Root and Kernel File Systems...
    7.153183] systemd[1]: Mounting POSIX Message Queue File System...
    7.154083] systemd[1]: Starting Journal Service...
     7.155498] systemd[1]: Starting Create list of required static device nodes for
the current kernel...
     7.155756] systemd[1]: Created slice system-getty.slice.
    7.155781] systemd[1]: Starting system-getty.slice.
    7.198794] systemd[1]: Started Load Kernel Modules.
    7.198862] systemd[1]: Mounted FUSE Control File System.
    7.199888] systemd[1]: Mounting Configuration File System...
    7.201022] systemd[1]: Starting Apply Kernel Variables...
     7.201689] systemd[1]: Starting Setup Virtual Console...
     7.201962] systemd[1]: Set up automount Arbitrary Executable File Formats File
System Automount Point.
     7.202004] systemd[1]: Starting Arbitrary Executable File Formats File System
Automount Point.
     7.203479] systemd[1]: Starting Set Up Additional Binary Formats...
     7.237183] systemd[1]: proc-sys-fs-binfmt_misc.automount: Got automount request
for /proc/sys/fs/binfmt_misc, triggered by 177 (systemd-binfmt)
     7.238289] systemd[1]: Mounting Arbitrary Executable File Formats File
System...
     7.270271] systemd[1]: Started Create list of required static device nodes for
the current kernel.
     7.526325] systemd[1]: Started Apply Kernel Variables.
    7.594441] systemd[1]: Starting CLI Netfilter Manager...
    7.751119] systemd[1]: Mounted Huge Pages File System.
    7.778314] systemd[1]: Mounted Debug File System.
    7.778365] systemd[1]: Mounted POSIX Message Queue File System.
    7.804156] EXT4-fs (sda3): re-mounted. Opts: data=ordered
    7.804779] systemd[1]: Mounted Arbitrary Executable File Formats File System.
    7.805632] systemd[1]: Started Remount Root and Kernel File Systems.
    7.807939] systemd[1]: Started First Boot Wizard.
    7.808018] systemd[1]: Started Create System Users.
    7.808624] systemd[1]: Starting Create Static Device Nodes in /dev...
    7.843580] systemd[1]: Started Rebuild Hardware Database.
    7.844932] systemd[1]: Starting udev Coldplug all Devices...
    7.845513] systemd[1]: Starting Load/Save Random Seed...
    7.845557] systemd[1]: Started Rebuild Dynamic Linker Cache.
    7.847542] systemd[1]: Started Set Up Additional Binary Formats.
    7.867692] systemd[1]: Mounted Configuration File System.
    7.988376] systemd[1]: Started udev Coldplug all Devices.
     8.186913] systemd[1]: Started Load/Save Random Seed.
```

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8.478375] systemd-journald[171]: File
/var/log/journal/f66eadb2217e4aa8a2e50663b5457f98/system.journal corrupted or
uncleanly shut down, renaming and replacing.
    8.483383] systemd[1]: Started Setup Virtual Console.
    8.743691] systemd[1]: Started Create Static Device Nodes in /dev.
    8.744647] systemd[1]: Starting udev Kernel Device Manager...
    8.744693] systemd[1]: Reached target Local File Systems (Pre).
    8.744727] systemd[1]: Starting Local File Systems (Pre).
    8.775873] systemd[1]: Mounting /tmp...
    8.775934] systemd[1]: Mounted Virtual Machine and Container Storage.
    8.779874] systemd[1]: Mounted /tmp.
    8.780363] systemd[1]: Started Journal Service.
    8.882314] systemd-journald[171]: Received request to flush runtime journal
from PID 1
    8.898721] nf_conntrack version 0.5.0 (65536 buckets, 262144 max)
    9.626086] ip6_tables: (C) 2000-2006 Netfilter Core Team
   10.525000] shpchp: Standard Hot Plug PCI Controller Driver version: 0.4
   10.525906] Initializing HPQ6001 module
   10.526023] input: HP Wireless hotkeys as /devices/virtual/input/input3
   10.656975] input: Power Button as
/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0A08:00/device:01/PNP0C0C:00/input/input4
   10.656980] ACPI: Power Button [PWRB]
   10.657039] input: Lid Switch as
/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0C0D:00/input/input5
   10.657166] ACPI: Lid Switch [LID0]
   10.657221] input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input6
   10.657223] ACPI: Power Button [PWRF]
   10.657320] pci 0000:00:02.0: BAR 6: [??? 0x00000000 flags 0x2] has bogus
alignment
   10.769267] thermal LNXTHERM:00: registered as thermal_zone0
   10.769272] ACPI: Thermal Zone [TZ00] (55 C)
   10.769709] thermal LNXTHERM:01: registered as thermal_zone1
   10.769712] ACPI: Thermal Zone [TZ01] (55 C)
   10.769816] thermal LNXTHERM:02: registered as thermal_zone2
   10.769819] ACPI: Thermal Zone [TZ02] (28 C)
   10.816166] hp_accel: laptop model unknown, using default axes configuration
   10.840905] lis3lv02d: 8 bits 3DC sensor found
   10.847210] wmi: Mapper loaded
   10.853789] [drm] Initialized drm 1.1.0 20060810
   10.896271] [Firmware Bug]: battery: (dis)charge rate invalid.
   10.896309] ACPI: Battery Slot [BAT1] (battery present)
   10.896439] ACPI: AC Adapter [ACAD] (on-line)
   10.899927] input: ST LIS3LV02DL Accelerometer as
/devices/platform/lis3lv02d/input/input7
   10.943957] ACPI Warning: SystemIO range 0x000000000000428-0x0000000000042F
(20150204/utaddress-254)
   10.943964] ACPI: If an ACPI driver is available for this device, you should use
it instead of the native driver
   10.943969] ACPI Warning: SystemIO range 0x00000000000540-0x000000000054F
(20150204/utaddress-254)
   10.943972] ACPI Warning: SystemIO range 0x000000000000540-0x0000000000054F
conflicts with OpRegion 0x00000000000000-0x00000000000055F
(\SB_.PCI0.PEG0.PEGP.GPI0) (20150204/utaddress-254)
   10.943976] ACPI Warning: SystemIO range 0x00000000000540-0x000000000054F
conflicts with OpRegion 0x000000000000000-0x0000000000000563 (\GPIO)
(20150204/utaddress-254)
   10.943979] ACPI: If an ACPI driver is available for this device, you should use
```

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it instead of the native driver
   10.943980] ACPI Warning: SystemIO range 0x00000000000530-0x000000000053F
conflicts with OpRegion 0x0000000000000500-0x000000000000563 (\GPIX)
(20150204/utaddress-254)
   10.943983] ACPI Warning: SystemIO range 0x00000000000530-0x000000000053F
conflicts with OpRegion 0x00000000000000000000000000000055F
(\_SB_.PCI0.PEG0.PEGP.GPI0) (20150204/utaddress-254)
   10.943986] ACPI Warning: SystemIO range 0x00000000000530-0x000000000053F
conflicts with OpRegion 0x0000000000000500-0x000000000000563 (\GPIO)
(20150204/utaddress-254)
   10.943989] ACPI: If an ACPI driver is available for this device, you should use
it instead of the native driver
   10.943990] ACPI Warning: SystemIO range 0x000000000000000-0x000000000052F
(20150204/utaddress-254)
   10.943993] ACPI Warning: SystemIO range 0x000000000000500-0x000000000052F
conflicts with OpRegion 0x00000000000000000000000000000055F
(\_SB_.PCI0.PEG0.PEGP.GPI0) (20150204/utaddress-254)
   10.943996] ACPI Warning: SystemIO range 0x000000000000000-0x000000000052F
(20150204/utaddress-254)
   10.943999] ACPI: If an ACPI driver is available for this device, you should use
it instead of the native driver
   10.944001] lpc_ich: Resource conflict(s) found affecting gpio_ich
   10.978825] ACPI Warning: SystemIO range 0x000000000004040-0x0000000000405F
conflicts with OpRegion 0x000000000004040-0x00000000000404F
(\SB_.PCI0.SBUS.SMBI) (20150204/utaddress-254)
   10.978835] ACPI: If an ACPI driver is available for this device, you should use
it instead of the native driver
   11.075597] sound hdaudioCODO: autoconfig for 92HD91BXX: line_outs=1
(0xd/0x0/0x0/0x0/0x0) type:speaker
   11.075601] sound hdaudioC0D0:
                                   speaker_outs=0 (0x0/0x0/0x0/0x0/0x0)
   11.075603] sound hdaudioC0D0:
                                   hp_outs=1 (0xb/0x0/0x0/0x0/0x0)
   11.075605] sound hdaudioC0D0:
                                   mono: mono_out=0x0
   11.075606] sound hdaudioCODO:
                                   inputs:
   11.075608] sound hdaudioC0D0:
                                     Internal Mic=0x11
   11.075611] sound hdaudioC0D0:
                                     Mic=0xa
   11.084600] cfg80211: Calling CRDA to update world regulatory domain
   11.143233] input: PC Speaker as /devices/platform/pcspkr/input/input9
   11.216563] [drm] Memory usable by graphics device = 2048M
   11.216569] checking generic (50000000 410000) vs hw (50000000 10000000)
   11.216571] fb: switching to inteldrmfb from EFI VGA
   11.216598] Console: switching to colour dummy device 80x25
   11.216696] [drm] Replacing VGA console driver
   11.236573] [drm] Supports vblank timestamp caching Rev 2 (21.10.2013).
   11.236576] [drm] Driver supports precise vblank timestamp query.
   11.236694] vgaarb: device changed decodes:
PCI:0000:00:02.0,olddecodes=io+mem,decodes=none:owns=io+mem
   11.254730] [Firmware Bug]: ACPI(PEGP) defines _DOD but not _DOS
   11.255437] ACPI: Video Device [PEGP] (multi-head: yes rom: no post: no)
   11.255995] input: Video Bus as
/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0A08:00/device:37/LNXVIDE0:00/input/input10
   11.256029] [Firmware Bug]: Duplicate ACPI video bus devices for the same VGA
controller, please try module parameter "video.allow_duplicates=1"if the current
driver doesn't work.
   11.257088] ACPI: Video Device [GFX0] (multi-head: yes rom: no post: no)
   11.259540] Intel(R) Wireless WiFi driver for Linux
Γ
   11.259544] Copyright(c) 2003- 2014 Intel Corporation
   11.260752] input: Video Bus as
```

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/devices/LNXSYSTM:00/LNXSYBUS:00/PNP0A08:00/LNXVIDE0:02/input/input11
    11.260788] [drm] Initialized i915 1.6.0 20150130 for 0000:00:02.0 on minor 0
    11.268243] fbcon: inteldrmfb (fb0) is primary device
    11.308318] iwlwifi 0000:08:00.0: loaded firmware version 25.17.12.0 op_mode
iwlm∨m
    11.422101 r8169 Gigabit Ethernet driver 2.3LK-NAPI loaded
    11.422108] r8169 0000:07:00.2: can't disable ASPM; OS doesn't have ASPM control
    11.422895] r8169 0000:07:00.2 eth0: RTL8411 at 0xffffc90010ebe000,
84:34:97:14:24:7b, XID 08800800 IRQ 32
    11.422897] r8169 0000:07:00.2 eth0: jumbo features [frames: 9200 bytes, tx
checksumming: ko]
    11.594764] input: HDA Digital PCBeep as
/devices/pci0000:00/0000:00:1b.0/sound/card0/hdaudioC0D0/input8
    11.595104] input: HDA Intel PCH Mic as
/devices/pci0000:00/0000:00:1b.0/sound/card0/input13
    11.595192] input: HDA Intel PCH Headphone as
/devices/pci0000:00/0000:00:1b.0/sound/card0/input14
    11.595273] input: HDA Intel PCH HDMI/DP,pcm=3 as
/devices/pci0000:00/0000:00:1b.0/sound/card0/input15
    11.766458] [drm] radeon kernel modesetting enabled.
    11.766471] VGA switcheroo: detected switching method \_SB_.PCIO.GFX0.ATPX
handle
    11.942118] iwlwifi 0000:08:00.0: Detected Intel(R) Dual Band Wireless AC 7260,
REV=0x144
    11.942200] iwlwifi 0000:08:00.0: L1 Enabled - LTR Disabled
    11.942492] iwlwifi 0000:08:00.0: L1 Enabled - LTR Disabled
    11.975523] Console: switching to colour frame buffer device 170x48
    11.978837 i915 0000:00:02.0: fb0: inteldrmfb frame buffer device
    11.978841] i915 0000:00:02.0: registered panic notifier
    12.016897] AMD IOMMUv2 driver by Joerg Roedel <jroedel@suse.de>
    12.016900] AMD IOMMUv2 functionality not available on this system
    12.320640] Bluetooth: Core ver 2.20
    12.320656] NET: Registered protocol family 31
    12.320657] Bluetooth: HCI device and connection manager initialized
    12.320661] Bluetooth: HCI socket layer initialized
    12.320663] Bluetooth: L2CAP socket layer initialized
    12.320668] Bluetooth: SCO socket layer initialized
    12.383623] usbcore: registered new interface driver btusb
    12.388943] intel_rapl: Found RAPL domain package
    12.388947] intel_rapl: Found RAPL domain core
    12.388950] intel_rapl: Found RAPL domain uncore
    12.393508] input: HP WMI hotkeys as /devices/virtual/input/input16
    12.398557] Bluetooth: hci0: read Intel version: 370710018001290c00
    12.400407] iTCO_vendor_support: vendor-support=0
    12.406682] bluetooth hci0: Direct firmware load for intel/ibt-hw-37.7.10-fw-
1.80.1.29.c.bseq failed with error -2
    12.406689] Bluetooth: hci0 failed to open Intel firmware file: intel/ibt-hw-
37.7.10-fw-1.80.1.29.c.bseq(-2)
    12.409838] Bluetooth: hci0: Intel Bluetooth firmware file: intel/ibt-hw-
37.7.bseq
    12.413554] Bluetooth: hci0: Intel Bluetooth firmware patch completed
    12.441032] CRAT table not found
    12.441035 Finished initializing topology ret=0
    12.441073] kfd kfd: Initialized module
    12.441340] radeon 0000:01:00.0: enabling device (0000 -> 0003)
    12.441524] [drm] initializing kernel modesetting (TURKS 0x1002:0x6840
0x103C:0x18A5).
   12.441539] [drm] register mmio base: 0x60000000
Γ
    12.441540] [drm] register mmio size: 131072
```

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12.441543] vga_switcheroo: enabled
    12.441642] ATPX version 1, functions 0x00000033
    12.463184] ATOM BIOS: HP/Compal
    12.463287] radeon 0000:01:00.0: VRAM: 2048M 0x0000000000000000 -
0x00000007FFFFFF (2048M used)
    12.463290 radeon 0000:01:00.0: GTT: 1024M 0x0000000080000000 -
0x00000000BFFFFFF
    12.463292] [drm] Detected VRAM RAM=2048M, BAR=256M
    12.463293] [drm] RAM width 128bits DDR
    12.463339] [TTM] Zone kernel: Available graphics memory: 3004996 kiB
    12.463340] [TTM] Zone
                            dma32: Available graphics memory: 2097152 kiB
    12.463341] [TTM] Initializing pool allocator
    12.463346] [TTM] Initializing DMA pool allocator
    12.463365] [drm] radeon: 2048M of VRAM memory ready
    12.463367] [drm] radeon: 1024M of GTT memory ready.
    12.463377] [drm] Loading TURKS Microcode
    12.610819] ieee80211 phy0: Selected rate control algorithm 'iwl-mvm-rs'
    12.734102] psmouse serio1: synaptics: queried max coordinates: x [..5684], y
    12.789530] iTCO wdt: Intel TCO WatchDog Timer Driver v1.11
    12.789582] iTCO_wdt: Found a Panther Point TCO device (Version=2,
TCOBASE=0\times0460)
    12.789718] iTCO_wdt: initialized. heartbeat=30 sec (nowayout=0)
    12.795823] FAT-fs (sda1): Volume was not properly unmounted. Some data may be
corrupt. Please run fsck.
    12.805279] r8169 0000:07:00.2 eno1: renamed from eth0
    12.868204] psmouse serio1: synaptics: queried min coordinates: x [1258..], y
[992..]
    12.995202] cfg80211: World regulatory domain updated:
    12.995205] cfg80211: DFS Master region: unset
    12.995207] cfg80211:
                           (start_freq - end_freq @ bandwidth), (max_antenna_gain,
max_eirp), (dfs_cac_time)
    12.995209] cfg80211:
                           (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000
mBm), (N/A)
    12.995211] cfg80211:
                           (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000
MBM), (N/A)
    12.995212] cfg80211:
                           (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000
mBm), (N/A)
    12.995214] cfg80211:
                           (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (N/A)
    12.995216] cfg80211:
                           (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (0 s)
   12.995218] cfg80211:
                           (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000
mBm), (0 s)
   12.995220] cfg80211:
                           (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000
mBm), (N/A)
    12.995222] cfg80211:
                           (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0
mBm), (N/A)
    13.066038] [drm] Internal thermal controller with fan control
    13.068382] [drm] radeon: dpm initialized
    13.128935] [drm] GART: num cpu pages 262144, num gpu pages 262144
    13.129616] [drm] PCIE gen 2 link speeds already enabled
    13.131804] [drm] PCIE GART of 1024M enabled (table at 0x0000000000274000).
    13.131907] radeon 0000:01:00.0: WB enabled
    13.131910] radeon 0000:01:00.0: fence driver on ring 0 use gpu addr
0x0000000080000c00 and cpu addr 0xffff8802300b5c00
    13.131913] radeon 0000:01:00.0: fence driver on ring 3 use gpu addr
0x0000000080000c0c and cpu addr 0xffff8802300b5c0c
    13.132464] radeon 0000:01:00.0: fence driver on ring 5 use gpu addr
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0x000000000072118 and cpu addr 0xffffc900113b2118
    13.132466] [drm] Supports vblank timestamp caching Rev 2 (21.10.2013).
    13.132467] [drm] Driver supports precise vblank timestamp query.
    13.132468] radeon 0000:01:00.0: radeon: MSI limited to 32-bit
    13.132498] radeon 0000:01:00.0: radeon: using MSI.
    13.132534] [drm] radeon: irg initialized.
    13.138044] psmouse serio1: synaptics: Touchpad model: 1, fw: 8.1, id: 0x1e2b1,
caps: 0xd00223/0x840300/0x26c00, board id: 2054, fw id: 1196324
    13.149051] [drm] ring test on 0 succeeded in 1 usecs
    13.149059] [drm] ring test on 3 succeeded in 3 usecs
    13.319677] input: SynPS/2 Synaptics TouchPad as
/devices/platform/i8042/serio1/input/input12
    13.326340] [drm] ring test on 5 succeeded in 1 usecs
    13.326346] [drm] UVD initialized successfully.
    13.326604] [drm] ib test on ring 0 succeeded in 0 usecs
   13.326663] [drm] ib test on ring 3 succeeded in 0 usecs
    13.351065] Adding 6347772k swap on /dev/sda2. Priority:-1 extents:1
across:6347772k FS
    13.386355] iwlwifi 0000:08:00.0 wlp8s0: renamed from wlan0
    13.454811] mousedev: PS/2 mouse device common for all mice
    13.515203] media: Linux media interface: v0.10
    13.585642 Non-volatile memory driver v1.3
    13.747028] Linux video capture interface: v2.00
    13.870451] [drm] ib test on ring 5 succeeded
    13.871780] EXT4-fs (sda4): recovery complete
    13.878567] [drm] Radeon Display Connectors
    13.886059] radeon 0000:01:00.0: No connectors reported connected with modes
    13.886064] [drm] Cannot find any crtc or sizes - going 1024x768
    13.886851] [drm] fb mappable at 0x40475000
    13.886852] [drm] vram apper at 0x40000000
    13.886853] [drm] size 3145728
    13.886854] [drm] fb depth is 24
    13.8868551 [drm]
                        pitch is 4096
   13.886922] radeon 0000:01:00.0: fb1: radeondrmfb frame buffer device
    13.887003] [drm] Initialized radeon 2.41.0 20080528 for 0000:01:00.0 on minor 1
    13.924245] EXT4-fs (sda4): mounted filesystem with ordered data mode. Opts:
data=ordered
    13.955504] uvcvideo: Found UVC 1.00 device HP Truevision HD (064e:c33c)
    13.964666] input: HP Truevision HD as /devices/pci0000:00/0000:00:1a.0/usb1/1-
1/1-1.1/1-1.1:1.0/input/input17
    13.964742] usbcore: registered new interface driver uvcvideo
    13.964744] USB Video Class driver (1.1.1)
    18.292164] r8169 0000:07:00.2 eno1: link down
    18.294320] iwlwifi 0000:08:00.0: L1 Enabled - LTR Disabled
    18.294613] iwlwifi 0000:08:00.0: L1 Enabled - LTR Disabled
    22.262208] systemd-journald[171]: File
/var/log/journal/f66eadb2217e4aa8a2e50663b5457f98/user-1000.journal corrupted or
uncleanly shut down, renaming and replacing.
    22.548110] wlp8s0: authenticate with 14:0c:76:bb:04:10
    22.551311] wlp8s0: send auth to 14:0c:76:bb:04:10 (try 1/3)
    22.552113] wlp8s0: authenticated
    22.552859] wlp8s0: associate with 14:0c:76:bb:04:10 (try 1/3)
    22.554373] wlp8s0: RX AssocResp from 14:0c:76:bb:04:10 (capab=0x11 status=0
aid=1)
    22.557887] wlp8s0: associated
    22.557966] cfg80211: Calling CRDA for country: FR
    22.562511] cfg80211: Regulatory domain changed to country: FR
    22.562516] cfg80211: DFS Master region: ETSI
    22.562518] cfg80211: (start_freq - end_freq @ bandwidth), (max_antenna_gain,
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max_eirp), (dfs_cac_time)
                           (2402000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000
    22.562521] cfg80211:
mBm), (N/A)
    22.562524] cfg80211:
                           (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (N/A)
    22.562527] cfg80211:
                           (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (0 s)
    22.562529] cfg80211:
                           (5490000 KHz - 5710000 KHz @ 160000 KHz), (N/A, 2700
mBm), (0 s)
    22.562531] cfg80211:
                           (57000000 KHz - 66000000 KHz @ 2160000 KHz), (N/A, 4000
mBm), (N/A)
    33.995578] fuse init (API version 7.23)
    89.288525] wlp8s0: authenticate with 00:24:d4:70:96:88
    89.291617] wlp8s0: send auth to 00:24:d4:70:96:88 (try 1/3)
    89.294318] cfg80211: Calling CRDA to update world regulatory domain
    89.296206] wlp8s0: authenticated
    89.297567] wlp8s0: associate with 00:24:d4:70:96:88 (try 1/3)
    89.299507] cfg80211: World regulatory domain updated:
    89.299512] cfg80211: DFS Master region: unset
    89.299513] cfg80211:
                           (start_freq - end_freq @ bandwidth), (max_antenna_gain,
max_eirp), (dfs_cac_time)
                           (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000
    89.299517] cfg80211:
mBm), (N/A)
    89.299519] cfg80211:
                           (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000
mBm), (N/A)
    89.299521] cfg80211:
                           (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000
mBm), (N/A)
    89.299524] cfg80211:
                           (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (N/A)
                           (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz
   89.299527] cfg80211:
AUTO), (N/A, 2000 mBm), (0 s)
   89.299530] cfg80211:
                           (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000
mBm), (0 s)
    89.299532] cfg80211:
                           (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000
mBm), (N/A)
    89.2995351 cfq80211:
                           (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0
mBm), (N/A)
    89.301973] wlp8s0: RX AssocResp from 00:24:d4:70:96:88 (capab=0x411 status=0
aid=4)
    89.302803] wlp8s0: associated
    99.653393] [UFW BLOCK] IN=wlp8s0 OUT=
MAC=00:15:00:ba:6c:97:00:24:d4:70:96:87:86:dd
SRC=2a01:0e0c:0001:0000:0000:0000:0000:0143
DST=2a01:0e35:8be3:a860:0215:00ff:feba:6c97 LEN=168 TC=0 HOPLIMIT=60 FLOWLBL=0
PROTO=TCP SPT=993 DPT=53228 WINDOW=2048 RES=0x00 ACK PSH URGP=0
   183.992642] [UFW BLOCK] IN=wlp8s0 OUT=
MAC=00:15:00:ba:6c:97:00:24:d4:70:96:87:86:dd
SRC=2001:4998:0058:2201:0000:0000:0000:0052
DST=2a01:0e35:8be3:a860:0215:00ff:feba:6c97 LEN=105 TC=0 HOPLIMIT=49 FLOWLBL=0
PROTO=TCP SPT=443 DPT=50310 WINDOW=70 RES=0x00 ACK PSH URGP=0
   222.041316] [UFW BLOCK] IN=wlp8s0 OUT=
MAC=00:15:00:ba:6c:97:00:24:d4:70:96:87:86:dd
SRC=2001:4998:0058:2201:0000:0000:0000:0052
DST=2a01:0e35:8be3:a860:0215:00ff:feba:6c97 LEN=105 TC=0 HOPLIMIT=49 FLOWLBL=0
PROTO=TCP SPT=443 DPT=50310 WINDOW=70 RES=0x00 ACK PSH URGP=0
[ 298.138503] [UFW BLOCK] IN=wlp8s0 OUT=
MAC=00:15:00:ba:6c:97:00:24:d4:70:96:87:86:dd
SRC=2001:4998:0058:2201:0000:0000:0000:0052
DST=2a01:0e35:8be3:a860:0215:00ff:feba:6c97 LEN=105 TC=0 HOPLIMIT=49 FLOWLBL=0
```

PROTO=TCP SPT=443 DPT=50310 WINDOW=70 RES=0x00 ACK PSH URGP=0

[ 418.236875] [UFW BLOCK] IN=wlp8s0 OUT=

MAC=00:15:00:ba:6c:97:00:24:d4:70:96:87:86:dd

SRC=2001:4998:0058:2201:0000:0000:0000:0052

DST=2a01:0e35:8be3:a860:0215:00ff:feba:6c97 LEN=105 TC=0 HOPLIMIT=49 FLOWLBL=0

PROTO=TCP SPT=443 DPT=50310 WINDOW=70 RES=0x00 ACK PSH URGP=0