

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for ddr_1_8v
Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099900000, size
64 MiB
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[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000317] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000325] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000738] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000751] pid_max: default: 32768 minimum: 301
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[ 0.000825] Security Framework initialized
[ 0.000836] SELinux: Initializing.
[ 0.000908] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000918] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001494] Initializing cgroup subsys io
[ 0.001511] Initializing cgroup subsys memory
[ 0.001537] Initializing cgroup subsys devices
[ 0.001551] Initializing cgroup subsys freezer
[ 0.001562] Initializing cgroup subsys perf_event
[ 0.001574] Initializing cgroup subsys pids
[ 0.001615] CPU: Testing write buffer coherency: ok
[ 0.001863] /cpus/cpu@0 missing clock-frequency property
[ 0.001880] /cpus/cpu@1 missing clock-frequency property
[ 0.001889] CPU0: update cpu_capacity 1024
[ 0.001897] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080481] CPU1: failed to come online
[ 1.080511] Brought up 1 CPUs
[ 1.080520] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080528] CPU: All CPU(s) started in HYP mode.
[ 1.080533] CPU: Virtualization extensions available.
[ 1.080565] CPU0: update max cpu_capacity 1024
[ 1.120889] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121912] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220914] omap_hwmod: cal: no dt node
[ 1.220925] -----[ cut here ]-----
[ 1.220940] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220947] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220954] Modules linked in:
[ 1.220968] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220976] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220983] Backtrace:
[ 1.221000] [

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[ 1.221226] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221232] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221251] r4:00000000
[ 1.221266] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221272] r5:c0b46388 r4:00000000
[ 1.221298] ---[ end trace ea5eff2ad02791a7 ]---
[ 1.309764] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309786] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314212] pinctrl core: initialized pinctrl subsystem
[ 1.315234] NET: Registered protocol family 16
[ 1.316361] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360915] cpuidle: using governor ladder
[ 1.420966] cpuidle: using governor menu
[ 1.429959] OMAP GPIO hardware version 0.1
[ 1.434124] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436469] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453817] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453832] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460593] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460902] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461180] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465706] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465717] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466205] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466216] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466916] OMAP DMA hardware revision 0.0
[ 1.572089] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573360] edma 43300000.edma: memcpy is disabled
[ 1.578193] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582927] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583123] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583293] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583467] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583770] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583962] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586011] usbcore: registered new interface driver usbfs
[ 1.586073] usbcore: registered new interface driver hub
[ 1.586189] usbcore: registered new device driver usb
[ 1.587713] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602205] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611701] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611814] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612661] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613392] pcf857x 0-0020: probed
[ 1.613998] pcf857x 0-0021: probed
[ 1.614143] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632819] omap_i2c 48072000.i2c: controller timed out
[ 2.652847] pcf857x: probe of 1-0026 failed with error -110
[ 2.653406] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653859] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673074] pcf857x 3-0021: probed
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[ 2.673101] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673332] media: Linux media interface: v0.10
[ 2.673387] Linux video capture interface: v2.00
[ 2.673431] pps_core: LinuxPPS API ver. 1 registered
[ 2.673438] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673464] PTP clock support registered
[ 2.673514] EDAC MC: Ver: 3.0.0
[ 2.683467] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683768] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684236] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693421] clocksource: Switched to clocksource arch_sys_counter
[ 2.736606] NET: Registered protocol family 2
[ 2.737211] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737275] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737401] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737455] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737486] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737639] NET: Registered protocol family 1
[ 2.738225] Trying to unpack rootfs image as initramfs...
[ 2.782401] Freeing initrd memory: 1092K
[ 2.783333] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786171] audit: initializing netlink subsys (disabled)
[ 2.786230] audit: type=2000 audit(2.779:1): initialized
[ 2.803679] VFS: Disk quotas dquot_6.6.0
[ 2.803852] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814961] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815216] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815542] fuse init (API version 7.23)
[ 2.820508] bounce: pool size: 64 pages
[ 2.820669] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820684] io scheduler noop registered
[ 2.820696] io scheduler deadline registered
[ 2.820729] io scheduler cfq registered (default)
[ 2.825635] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829006] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.829045]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829066]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860604] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860783] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860798] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860808] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860818] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.861232] PCI: bus0: Fast back to back transfers disabled
[ 2.861357] PCI: bus1: Fast back to back transfers enabled
[ 2.861447] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861463] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861477] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861703] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866636] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869104] console [ttyS0] disabled
[ 2.869167] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116071] console [ttyS0] enabled
[ 4.120111] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129463] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
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[ 4.139511] [drm] Initialized drm 1.1.0 20060810
[ 4.145785] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322669] brd: module loaded
[ 4.411016] loop: module loaded
[ 4.425752] nand: No NAND device found
[ 4.429525] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439648] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445092] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450949] Creating 7 MTD partitions on "spi32766.0":
[ 4.456130] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472197] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488508] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505425] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.522043] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539383] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555709] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573492] libphy: Fixed MDIO Bus: probed
[ 4.578169] tun: Universal TUN/TAP device driver, 1.6
[ 4.583241] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589575] CAN device driver interface
[ 4.594563] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653461] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659587] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680251] libphy: 48485000.mdio: probed
[ 4.684346] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692648] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701691] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708397] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715422] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723062] PPP generic driver version 2.4.2
[ 4.727560] PPP BSD Compression module registered
[ 4.732289] PPP Deflate Compression module registered
[ 4.737420] PPP MPPE Compression module registered
[ 4.742236] NET: Registered protocol family 24
[ 4.749133] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755757] ehci-pci: EHCI PCI platform driver
[ 4.760271] ehci-platform: EHCI generic platform driver
[ 4.765893] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772125] ohci-pci: OHCI PCI platform driver
[ 4.776763] ohci-platform: OHCI generic platform driver
[ 4.782984] mousedev: PS/2 mouse device common for all mice
[ 4.788784] usbcore: registered new interface driver xpad
[ 4.794295] usbcore: registered new interface driver usb_acecad
[ 4.800284] usbcore: registered new interface driver aiptek
[ 4.805965] usbcore: registered new interface driver gtco
[ 4.811432] usbcore: registered new interface driver hanwang
[ 4.817177] usbcore: registered new interface driver kbtap
[ 4.823265] i2c /dev entries driver
[ 4.827872] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835007] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841200] gspca_main: v2.14.0 registered
[ 4.848773] device-mapper: uevent: version 1.0.3
[ 4.853574] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859689] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868202] vip 48970000.vip: VPDMA firmware loaded
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[ 4.884631] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890287] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896754] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028479] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034557] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042791] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051170] usbcore: registered new interface driver usbhid
[ 5.056820] usbhid: USB HID core driver
[ 5.060965] ashmem: initialized
[ 5.069562] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076747] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082421] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091213] mmc0: new high speed SDIO card at address 0001
[ 5.096796] remoteproc0: 58820000.ipu is available
[ 5.101696] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.112026] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122584] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130978] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138804] remoteproc0: Falling back to user helper
[ 5.143959] remoteproc1: 55020000.ipu is available
[ 5.148858] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157990] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168541] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176945] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184789] remoteproc1: Falling back to user helper
[ 5.189993] remoteproc2: 40800000.dsp is available
[ 5.194935] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204194] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.215076] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222895] remoteproc3: 41000000.dsp is available
[ 5.227896] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236983] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247519] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259448] remoteproc2: Falling back to user helper
[ 5.275586] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284451] usbcore: registered new interface driver snd-usb-audio
[ 5.292340] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297676] remoteproc3: Falling back to user helper
[ 5.303933] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309389] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317268] u32 classifier
[ 5.319988] input device check on
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[ 5.323746]     Actions configured
[ 5.327172] Netfilter messages via NETLINK v0.30.
[ 5.331952] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338622] ctnetlink v0.93: registering with nfnetlink.
[ 5.345620] xt_time: kernel timezone is -0000
[ 5.350384] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355959] arp_tables: (C) 2002 David S. Miller
[ 5.360741] Initializing XFRM netlink socket
[ 5.365706] NET: Registered protocol family 10
[ 5.381283] mip6: Mobile IPv6
[ 5.384337] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.390094] sit: IPv6 over IPv4 tunneling driver
[ 5.395327] NET: Registered protocol family 17
[ 5.399815] NET: Registered protocol family 15
[ 5.404309] can: controller area network core (rev 20120528 abi 9)
[ 5.410573] NET: Registered protocol family 29
[ 5.415114] can: raw protocol (rev 20120528)
[ 5.419408] can: broadcast manager protocol (rev 20120528 t)
[ 5.425122] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430939] NET: Registered protocol family 41
[ 5.435763] omap_voltage_late_init: Voltage driver support not added
[ 5.442741] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448979] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455235] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461835] Power Management for TI OMAP4+ devices.
[ 5.466995] Registering SWP/SWPB emulation handler
[ 5.472261] registered taskstats version 1
[ 5.477260] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484835] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502362] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511339] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517361] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523817] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531487] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537753] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.544031] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551581] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559443] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566987] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572938] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579479] hctosys: unable to open rtc device (rtc0)
[ 5.593504] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601430] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614171] evm_1v8: disabling
[ 5.617248] evm_3v3_sw: disabling
[ 5.620576] aic_dvdd: disabling
[ 5.623813] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.630093] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636608] vmmcwl_fixed: disabling
[ 5.640117] pbias_mmc_omap5: disabling
[ 5.644573] evm_3v3_sd: disabling
[ 5.648128] ALSA device list:
[ 5.651107]   No soundcards found.
[ 5.655208] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.663826] Freeing unused kernel memory: 2048K
[ 5.671222] init: init first stage started!
[ 5.675762] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.803670] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
```



```
[ 15.819046] init: Wait for partitions returned after 10001ms
[ 15.824779] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.837394] init: Failed to mount required partitions early ...
[ 15.843352] init: panic: rebooting to bootloader
[ 15.849165] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.855990] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.863740] init: Shutdown timeout: 6000 ms
[ 15.867993] init: terminating init services
[ 15.872217] init: waitid failed: No child processes
[ 15.877188] init: Terminating running services took 28ms with remaining
services:0
[ 15.884862] init: waitid failed: No child processes
[ 15.889772] init: vold not running, skipping vold shutdown
[ 15.995828] init: powerctl_shutdown_time_ms:146:0
[ 16.000567] init: Reboot ending, jumping to kernel
[ 16.005755] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.011299] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.016862] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.022396] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.029764] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
```

Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbf000000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules : 0xbf000000 - 0xbf000000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
```

```

[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000320] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000328] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000744] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000758] pid_max: default: 32768 minimum: 301
[ 0.000830] Security Framework initialized
[ 0.000841] SELinux: Initializing.
[ 0.000914] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000924] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001495] Initializing cgroup subsys io
[ 0.001514] Initializing cgroup subsys memory
[ 0.001539] Initializing cgroup subsys devices
[ 0.001551] Initializing cgroup subsys freezer
[ 0.001562] Initializing cgroup subsys perf_event
[ 0.001573] Initializing cgroup subsys pids
[ 0.001613] CPU: Testing write buffer coherency: ok
[ 0.001859] /cpus/cpu@0 missing clock-frequency property
[ 0.001877] /cpus/cpu@1 missing clock-frequency property
[ 0.001886] CPU0: update cpu_capacity 1024
[ 0.001894] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001940] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080488] CPU1: failed to come online
[ 1.080520] Brought up 1 CPUs
[ 1.080529] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080536] CPU: All CPU(s) started in HYP mode.
[ 1.080542] CPU: Virtualization extensions available.
[ 1.080573] CPU0: update max cpu_capacity 1024
[ 1.120898] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121920] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220789] omap_hwmod: cal: no dt node
[ 1.220799] -----[ cut here ]-----
[ 1.220814] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220822] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220828] Modules linked in:
[ 1.220843] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220850] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220857] Backtrace:

```

```
[ 1.220874] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.220881] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220912] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.220925] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220931] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220954] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.220960] r3:c0e065f8 r2:c0e03fe0
[ 1.220971] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.220993] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.220999] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221020] r4:c1217c48
[ 1.221033] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221039] r5:c120bd68 r4:00000001
[ 1.221055] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221062] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221082] r4:00000001
[ 1.221096] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221102] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221121] r4:00000000
[ 1.221136] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221142] r5:c0b46388 r4:00000000
[ 1.221167] ---[ end trace 21b82cd21e65a782 ]---
[ 1.309968] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309991] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314222] pinctrl core: initialized pinctrl subsystem
[ 1.315248] NET: Registered protocol family 16
[ 1.316370] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360919] cpuidle: using governor ladder
[ 1.420968] cpuidle: using governor menu
[ 1.429934] OMAP GPIO hardware version 0.1
[ 1.434111] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436467] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453762] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453777] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460540] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460849] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461124] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465629] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465640] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466129] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466138] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466839] OMAP DMA hardware revision 0.0
[ 1.572076] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573338] edma 43300000.edma: memcpy is disabled
[ 1.578094] edma 43300000.edma: TI EDMA DMA engine driver
```

```
[ 1.582835] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583032] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583202] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583378] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583684] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583877] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585941] usbcore: registered new interface driver usbfs
[ 1.586001] usbcore: registered new interface driver hub
[ 1.586116] usbcore: registered new device driver usb
[ 1.587628] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602105] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611585] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611700] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612542] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613274] pcf857x 0-0020: probed
[ 1.613891] pcf857x 0-0021: probed
[ 1.614040] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632722] omap_i2c 48072000.i2c: controller timed out
[ 2.652751] pcf857x: probe of 1-0026 failed with error -110
[ 2.653310] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653760] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672976] pcf857x 3-0021: probed
[ 2.673004] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673234] media: Linux media interface: v0.10
[ 2.673289] Linux video capture interface: v2.00
[ 2.673331] pps_core: LinuxPPS API ver. 1 registered
[ 2.673339] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673365] PTP clock support registered
[ 2.673414] EDAC MC: Ver: 3.0.0
[ 2.683365] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683665] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684130] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693315] clocksource: Switched to clocksource arch_sys_counter
[ 2.736459] NET: Registered protocol family 2
[ 2.737059] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737126] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737252] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737306] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737337] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737490] NET: Registered protocol family 1
[ 2.738084] Trying to unpack rootfs image as initramfs...
[ 2.782285] Freeing initrd memory: 1092K
[ 2.783214] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786049] audit: initializing netlink subsys (disabled)
[ 2.786108] audit: type=2000 audit(2.779:1): initialized
[ 2.803453] VFS: Disk quotas dquot_6.6.0
[ 2.803627] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814736] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814992] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815318] fuse init (API version 7.23)
[ 2.820286] bounce: pool size: 64 pages
[ 2.820444] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820459] io scheduler noop registered
[ 2.820470] io scheduler deadline registered
[ 2.820502] io scheduler cfq registered (default)
```

```
[ 2.825348] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828705] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828745]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828767]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860227] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860406] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860420] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860431] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860441] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.860857] PCI: bus0: Fast back to back transfers disabled
[ 2.860980] PCI: bus1: Fast back to back transfers enabled
[ 2.861070] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861086] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861099] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861329] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866273] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868740] console [ttyS0] disabled
[ 2.868802] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115726] console [ttyS0] enabled
[ 4.119759] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129106] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139161] [drm] Initialized drm 1.1.0 20060810
[ 4.145444] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322305] brd: module loaded
[ 4.410641] loop: module loaded
[ 4.425386] nand: No NAND device found
[ 4.429160] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439294] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.444737] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450596] Creating 7 MTD partitions on "spi32766.0":
[ 4.455776] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.471834] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488144] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505052] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.521670] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539016] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555338] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573087] libphy: Fixed MDIO Bus: probed
[ 4.577816] tun: Universal TUN/TAP device driver, 1.6
[ 4.582889] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589202] CAN device driver interface
[ 4.594190] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653353] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659479] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680325] libphy: 48485000.mdio: probed
[ 4.684420] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692723] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701772] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708481] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715500] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723141] PPP generic driver version 2.4.2
[ 4.727642] PPP BSD Compression module registered
[ 4.732370] PPP Deflate Compression module registered
```

```
[ 4.737500] PPP MPPE Compression module registered
[ 4.742317] NET: Registered protocol family 24
[ 4.749223] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755846] ehci-pci: EHCI PCI platform driver
[ 4.760359] ehci-platform: EHCI generic platform driver
[ 4.765981] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772213] ohci-pci: OHCI PCI platform driver
[ 4.776839] ohci-platform: OHCI generic platform driver
[ 4.783063] mousedev: PS/2 mouse device common for all mice
[ 4.788863] usbcore: registered new interface driver xpad
[ 4.794373] usbcore: registered new interface driver usb_acecad
[ 4.800360] usbcore: registered new interface driver aiptek
[ 4.806042] usbcore: registered new interface driver gtco
[ 4.811510] usbcore: registered new interface driver hanwang
[ 4.817258] usbcore: registered new interface driver kbtabs
[ 4.823374] i2c /dev entries driver
[ 4.827964] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835101] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841294] gspca_main: v2.14.0 registered
[ 4.849119] device-mapper: uevent: version 1.0.3
[ 4.853924] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860033] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868546] vip 48970000.vip: VPDMA firmware loaded
[ 4.884838] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890495] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896965] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028278] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034356] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042590] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050955] usbcore: registered new interface driver usbhid
[ 5.056602] usbhid: USB HID core driver
[ 5.060748] ashmem: initialized
[ 5.069319] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076494] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082167] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090938] mmc0: new high speed SDIO card at address 0001
[ 5.096521] remoteproc0: 58820000.ipu is available
[ 5.101421] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111755] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122315] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130710] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138535] remoteproc0: Falling back to user helper
[ 5.143689] remoteproc1: 55020000.ipu is available
[ 5.148589] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157723] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168277] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176682] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184528] remoteproc1: Falling back to user helper
```

```
[ 5.189732] remoteproc2: 40800000.dsp is available
[ 5.194673] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203933] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214819] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222639] remoteproc3: 41000000.dsp is available
[ 5.227638] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236725] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247264] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259188] remoteproc2: Falling back to user helper
[ 5.275331] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284193] usbcore: registered new interface driver snd-usb-audio
[ 5.292081] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297420] remoteproc3: Falling back to user helper
[ 5.303663] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309119] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316997] u32 classifier
[ 5.319715]     input device check on
[ 5.323472]     Actions configured
[ 5.326898] Netfilter messages via NETLINK v0.30.
[ 5.331677] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338346] ctnetlink v0.93: registering with nfnetlink.
[ 5.345348] xt_time: kernel timezone is -0000
[ 5.350113] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355690] arp_tables: (C) 2002 David S. Miller
[ 5.360473] Initializing XFRM netlink socket
[ 5.365437] NET: Registered protocol family 10
[ 5.381020] mip6: Mobile IPv6
[ 5.384075] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389831] sit: IPv6 over IPv4 tunneling driver
[ 5.395063] NET: Registered protocol family 17
[ 5.399549] NET: Registered protocol family 15
[ 5.404041] can: controller area network core (rev 20120528 abi 9)
[ 5.410306] NET: Registered protocol family 29
[ 5.414848] can: raw protocol (rev 20120528)
[ 5.419143] can: broadcast manager protocol (rev 20120528 t)
[ 5.424858] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430677] NET: Registered protocol family 41
[ 5.435509] omap_voltage_late_init: Voltage driver support not added
[ 5.442496] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448736] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454996] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461599] Power Management for TI OMAP4+ devices.
[ 5.466763] Registering SWP/SWPB emulation handler
[ 5.472033] registered taskstats version 1
[ 5.477028] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484610] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502117] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511101] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517115] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523571] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531240] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537506] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
```



```
[ 5.543785] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551333] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559196] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566746] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572705] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579242] hctosys: unable to open rtc device (rtc0)
[ 5.593397] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601320] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613847] evm_1v8: disabling
[ 5.616922] evm_3v3_sw: disabling
[ 5.620250] aic_dvdd: disabling
[ 5.623488] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629770] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636284] vmmcwl_fixed: disabling
[ 5.639798] evm_3v3_sd: disabling
[ 5.644044] ALSA device list:
[ 5.647025]   No soundcards found.
[ 5.651330] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658687] Freeing unused kernel memory: 2048K
[ 5.667180] init: init first stage started!
[ 5.671645] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799912] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814936] init: Wait for partitions returned after 10001ms
[ 15.820644] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833262] init: Failed to mount required partitions early ...
[ 15.839268] init: panic: rebooting to bootloader
[ 15.845077] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851857] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859610] init: Shutdown timeout: 6000 ms
[ 15.863908] init: terminating init services
[ 15.868133] init: waitid failed: No child processes
[ 15.873052] init: Terminating running services took 27ms with remaining
services:0
[ 15.880729] init: waitid failed: No child processes
[ 15.885683] init: vold not running, skipping vold shutdown
[ 15.991703] init: powerctl_shutdown_time_ms:146:0
[ 15.996464] init: Reboot ending, jumping to kernel
[ 16.001633] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007198] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012740] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018290] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025648] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

```
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
```

```
Kernel command line: buildvariant=userdebug
```

```
RAM disk load addr 0x83000000 size 1092 KiB
```

```
## Flattened Device Tree blob at 88000000
```

```
Booting using the fdt blob at 0x88000000
```

```
Loading Kernel Image ... OK
```

```
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
```

```
Loading Device Tree to 8fed1000, end 8feee946 ... OK
```

```
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
```

```

[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000315] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000323] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000726] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000739] pid_max: default: 32768 minimum: 301
[ 0.000812] Security Framework initialized
[ 0.000823] SELinux: Initializing.
[ 0.000899] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000909] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001476] Initializing cgroup subsys io
[ 0.001494] Initializing cgroup subsys memory
[ 0.001519] Initializing cgroup subsys devices
[ 0.001533] Initializing cgroup subsys freezer
[ 0.001545] Initializing cgroup subsys perf_event
[ 0.001556] Initializing cgroup subsys pids
[ 0.001595] CPU: Testing write buffer coherency: ok
[ 0.001842] /cpus/cpu@0 missing clock-frequency property

```

```
[ 0.001859] /cpus/cpu@1 missing clock-frequency property
[ 0.001868] CPU0: update cpu_capacity 1024
[ 0.001877] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001924] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080477] CPU1: failed to come online
[ 1.080507] Brought up 1 CPUs
[ 1.080516] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080522] CPU: All CPU(s) started in HYP mode.
[ 1.080528] CPU: Virtualization extensions available.
[ 1.080560] CPU0: update max cpu_capacity 1024
[ 1.120903] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121931] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220771] omap_hwmod: cal: no dt node
[ 1.220782] -----[ cut here ]-----
[ 1.220796] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220804] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220810] Modules linked in:
[ 1.220824] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220832] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220838] Backtrace:
[ 1.220855] [
```

```
[ 1.314192] pinctrl core: initialized pinctrl subsystem
[ 1.315210] NET: Registered protocol family 16
[ 1.316350] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360908] cpuidle: using governor ladder
[ 1.420959] cpuidle: using governor menu
[ 1.429917] OMAP GPIO hardware version 0.1
[ 1.434090] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436441] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453749] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453763] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460524] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460833] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461107] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465609] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465620] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466109] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466119] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466818] OMAP DMA hardware revision 0.0
[ 1.572020] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573287] edma 43300000.edma: memcpy is disabled
[ 1.578105] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582846] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583038] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583208] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583384] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583689] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583883] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585949] usbcore: registered new interface driver usbfs
[ 1.586008] usbcore: registered new interface driver hub
[ 1.586126] usbcore: registered new device driver usb
[ 1.587634] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602103] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611606] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611720] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612563] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613296] pcf857x 0-0020: probed
[ 1.613903] pcf857x 0-0021: probed
[ 1.614049] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632721] omap_i2c 48072000.i2c: controller timed out
[ 2.652750] pcf857x: probe of 1-0026 failed with error -110
[ 2.653307] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653759] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672968] pcf857x 3-0021: probed
[ 2.672995] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673221] media: Linux media interface: v0.10
[ 2.673275] Linux video capture interface: v2.00
[ 2.673317] pps_core: LinuxPPS API ver. 1 registered
[ 2.673325] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673351] PTP clock support registered
[ 2.673401] EDAC MC: Ver: 3.0.0
[ 2.683367] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683666] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684131] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693321] clocksource: Switched to clocksource arch_sys_counter
```

```
[ 2.736791] NET: Registered protocol family 2
[ 2.737393] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737458] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737583] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737637] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737668] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737822] NET: Registered protocol family 1
[ 2.738409] Trying to unpack rootfs image as initramfs...
[ 2.782610] Freeing initrd memory: 1092K
[ 2.783677] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786377] audit: initializing netlink subsys (disabled)
[ 2.786435] audit: type=2000 audit(2.779:1): initialized
[ 2.803977] VFS: Disk quotas dquot_6.6.0
[ 2.804150] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815262] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815517] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815847] fuse init (API version 7.23)
[ 2.820827] bounce: pool size: 64 pages
[ 2.820984] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820998] io scheduler noop registered
[ 2.821010] io scheduler deadline registered
[ 2.821042] io scheduler cfq registered (default)
[ 2.825891] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829227] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829265]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829287]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860758] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860938] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860952] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860963] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860973] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.861388] PCI: bus0: Fast back to back transfers disabled
[ 2.861511] PCI: bus1: Fast back to back transfers enabled
[ 2.861603] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861618] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861631] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861863] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866802] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869261] console [ttyS0] disabled
[ 2.869322] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116265] console [ttyS0] enabled
[ 4.120300] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129650] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139701] [drm] Initialized drm 1.1.0 20060810
[ 4.145978] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322863] brd: module loaded
[ 4.411215] loop: module loaded
[ 4.425956] nand: No NAND device found
[ 4.429730] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439843] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445287] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451145] Creating 7 MTD partitions on "spi32766.0":
[ 4.456327] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472377] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488695] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
```

```
[ 4.505608] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522223] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539569] 0x0000001e0000-0x00000019e0000 : "QSPI.kernel"
[ 4.555898] 0x00000019e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573673] libphy: Fixed MDIO Bus: probed
[ 4.578344] tun: Universal TUN/TAP device driver, 1.6
[ 4.583462] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589756] CAN device driver interface
[ 4.594751] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653362] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659489] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680536] libphy: 48485000.mdio: probed
[ 4.684631] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692935] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701981] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708687] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715713] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723449] PPP generic driver version 2.4.2
[ 4.727848] PPP BSD Compression module registered
[ 4.732575] PPP Deflate Compression module registered
[ 4.737706] PPP MPPE Compression module registered
[ 4.742521] NET: Registered protocol family 24
[ 4.749433] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.756058] ehci-pci: EHCI PCI platform driver
[ 4.760570] ehci-platform: EHCI generic platform driver
[ 4.766192] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772424] ohci-pci: OHCI PCI platform driver
[ 4.777048] ohci-platform: OHCI generic platform driver
[ 4.783275] mousedev: PS/2 mouse device common for all mice
[ 4.789078] usbcore: registered new interface driver xpad
[ 4.794588] usbcore: registered new interface driver usb_acecad
[ 4.800575] usbcore: registered new interface driver aiptek
[ 4.806256] usbcore: registered new interface driver gtco
[ 4.811727] usbcore: registered new interface driver hanwang
[ 4.817474] usbcore: registered new interface driver kbtap
[ 4.823583] i2c /dev entries driver
[ 4.828167] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835306] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841500] gspca_main: v2.14.0 registered
[ 4.849283] device-mapper: uevent: version 1.0.3
[ 4.854087] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860196] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868709] vip 48970000.vip: VPDMA firmware loaded
[ 4.884993] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890652] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897120] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028273] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034348] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042579] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050904] usbcore: registered new interface driver usbhid
[ 5.056577] usbhid: USB HID core driver
[ 5.060725] ashmem: initialized
[ 5.069322] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076499] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
```

```
[ 5.082172] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090945] mmc0: new high speed SDIO card at address 0001
[ 5.096529] remoteproc0: 58820000.ipu is available
[ 5.101428] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111762] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122320] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130715] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138539] remoteproc0: Falling back to user helper
[ 5.143692] remoteproc1: 55020000.ipu is available
[ 5.148591] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157724] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168276] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176679] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184524] remoteproc1: Falling back to user helper
[ 5.189727] remoteproc2: 40800000.dsp is available
[ 5.194669] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203929] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214812] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222634] remoteproc3: 41000000.dsp is available
[ 5.227636] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236723] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247260] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259179] remoteproc2: Falling back to user helper
[ 5.275334] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284197] usbcore: registered new interface driver snd-usb-audio
[ 5.292086] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297424] remoteproc3: Falling back to user helper
[ 5.303678] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309134] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317019] u32 classifier
[ 5.319738]     input device check on
[ 5.323496]     Actions configured
[ 5.326922] Netfilter messages via NETLINK v0.30.
[ 5.331701] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338372] ctnetlink v0.93: registering with nfnetlink.
[ 5.345368] xt_time: kernel timezone is -0000
[ 5.350132] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355711] arp_tables: (C) 2002 David S. Miller
[ 5.360492] Initializing XFRM netlink socket
[ 5.365456] NET: Registered protocol family 10
[ 5.381032] mip6: Mobile IPv6
[ 5.384087] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389840] sit: IPv6 over IPv4 tunneling driver
```



```
[ 5.395060] NET: Registered protocol family 17
[ 5.399547] NET: Registered protocol family 15
[ 5.404040] can: controller area network core (rev 20120528 abi 9)
[ 5.410304] NET: Registered protocol family 29
[ 5.414845] can: raw protocol (rev 20120528)
[ 5.419140] can: broadcast manager protocol (rev 20120528 t)
[ 5.424857] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430674] NET: Registered protocol family 41
[ 5.435502] omap_voltage_late_init: Voltage driver support not added
[ 5.442487] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448727] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454986] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461590] Power Management for TI OMAP4+ devices.
[ 5.466752] Registering SWP/SWPB emulation handler
[ 5.472017] registered taskstats version 1
[ 5.477008] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484592] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502107] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511073] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517093] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523549] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531222] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537488] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543767] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551315] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559181] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566730] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572685] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579223] hctosys: unable to open rtc device (rtc0)
[ 5.593403] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601329] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613940] evm_1v8: disabling
[ 5.617015] evm_3v3_sw: disabling
[ 5.620344] aic_dvdd: disabling
[ 5.623580] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629864] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636379] vmmcwl_fixed: disabling
[ 5.639893] evm_3v3_sd: disabling
[ 5.644142] ALSA device list:
[ 5.647123]   No soundcards found.
[ 5.651430] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658783] Freeing unused kernel memory: 2048K
[ 5.667295] init: init first stage started!
[ 5.671762] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799459] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.813942] init: Wait for partitions returned after 10000ms
[ 15.819650] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.832267] init: Failed to mount required partitions early ...
[ 15.838275] init: panic: rebooting to bootloader
[ 15.842928] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.850864] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.858619] init: Shutdown timeout: 6000 ms
[ 15.862870] init: terminating init services
[ 15.867146] init: waitid failed: No child processes
[ 15.872065] init: Terminating running services took 29ms with remaining
services:0
```

```
[ 15.879738] init: waitid failed: No child processes
[ 15.884689] init: vold not running, skipping vold shutdown
[ 15.990716] init: powerctl_shutdown_time_ms:147:0
[ 15.995478] init: Reboot ending, jumping to kernel
[ 16.000647] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.006212] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.011753] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.017304] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.024671] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
```

```

LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xffff0000 (3072 kB)
[ 0.000000] vmalloc : 0xf0800000 - 0xff800000 ( 240 MB)
[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).

```

```

[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000327] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000335] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000749] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000764] pid_max: default: 32768 minimum: 301
[ 0.000838] Security Framework initialized
[ 0.000849] SELinux: Initializing.
[ 0.000922] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001504] Initializing cgroup subsys io
[ 0.001523] Initializing cgroup subsys memory
[ 0.001549] Initializing cgroup subsys devices
[ 0.001562] Initializing cgroup subsys freezer
[ 0.001574] Initializing cgroup subsys perf_event
[ 0.001585] Initializing cgroup subsys pids
[ 0.001626] CPU: Testing write buffer coherency: ok
[ 0.001870] /cpus/cpu@0 missing clock-frequency property
[ 0.001887] /cpus/cpu@1 missing clock-frequency property
[ 0.001896] CPU0: update cpu_capacity 1024
[ 0.001904] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001950] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080484] CPU1: failed to come online
[ 1.080514] Brought up 1 CPUs
[ 1.080523] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080530] CPU: All CPU(s) started in HYP mode.
[ 1.080536] CPU: Virtualization extensions available.
[ 1.080568] CPU0: update max cpu_capacity 1024
[ 1.110872] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111903] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210971] omap_hwmod: cal: no dt node
[ 1.210982] -----[ cut here ]-----
[ 1.210997] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211004] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211010] Modules linked in:
[ 1.211025] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211032] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211039] Backtrace:
[ 1.211056] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.211063] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.211091] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.211104] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.211110] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.211133] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.211139] r3:c0e065f8 r2:c0e03fe0
[ 1.211150] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.211172] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)

```

```
[ 1.211178] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.211199] r4:c1217c48
[ 1.211212] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.211218] r5:c120bd68 r4:00000001
[ 1.211234] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.211241] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.211260] r4:00000001
[ 1.211274] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.211280] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211299] r4:00000000
[ 1.211313] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211319] r5:c0b46388 r4:00000000
[ 1.211345] ---[ end trace e5b83bd154e0a23b ]---
[ 1.299780] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.299803] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304224] pinctrl core: initialized pinctrl subsystem
[ 1.305243] NET: Registered protocol family 16
[ 1.306367] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350901] cpuidle: using governor ladder
[ 1.410954] cpuidle: using governor menu
[ 1.419941] OMAP GPIO hardware version 0.1
[ 1.424114] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426475] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.443766] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443781] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450536] platform 41501000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.450844] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451115] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455614] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455625] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456116] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456126] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456824] OMAP DMA hardware revision 0.0
[ 1.561976] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563236] edma 43300000.edma: memcpy is disabled
[ 1.568047] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572785] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.572978] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573146] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573322] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573626] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573818] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575867] usbcore: registered new interface driver usbfs
[ 1.575926] usbcore: registered new interface driver hub
[ 1.576043] usbcore: registered new device driver usb
[ 1.577553] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592056] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601557] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601668] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
```

```
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602513] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603245] pcf857x 0-0020: probed
[ 1.603854] pcf857x 0-0021: probed
[ 1.604001] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622668] omap_i2c 48072000.i2c: controller timed out
[ 2.642695] pcf857x: probe of 1-0026 failed with error -110
[ 2.643253] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643709] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662913] pcf857x 3-0021: probed
[ 2.662940] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663171] media: Linux media interface: v0.10
[ 2.663226] Linux video capture interface: v2.00
[ 2.663268] pps_core: LinuxPPS API ver. 1 registered
[ 2.663276] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663302] PTP clock support registered
[ 2.663352] EDAC MC: Ver: 3.0.0
[ 2.673319] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673621] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674088] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683263] clocksource: Switched to clocksource arch_sys_counter
[ 2.726631] NET: Registered protocol family 2
[ 2.727237] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727301] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727426] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727480] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727512] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727666] NET: Registered protocol family 1
[ 2.728258] Trying to unpack rootfs image as initramfs...
[ 2.772467] Freeing initrd memory: 1092K
[ 2.773527] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776222] audit: initializing netlink subsys (disabled)
[ 2.776280] audit: type=2000 audit(2.769:1): initialized
[ 2.793648] VFS: Disk quotas dquot_6.6.0
[ 2.793820] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.804944] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805198] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805527] fuse init (API version 7.23)
[ 2.810493] bounce: pool size: 64 pages
[ 2.810652] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810666] io scheduler noop registered
[ 2.810678] io scheduler deadline registered
[ 2.810709] io scheduler cfq registered (default)
[ 2.815557] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.818911] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.818949]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.818971]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.850581] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850761] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850776] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850787] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850796] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.851211] PCI: bus0: Fast back to back transfers disabled
[ 2.851337] PCI: bus1: Fast back to back transfers enabled
[ 2.851430] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851446] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
```

```
[ 2.851459] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851683] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856620] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859077] console [ttyS0] disabled
[ 2.859140] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.105996] console [ttyS0] enabled
[ 4.110040] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119391] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129438] [drm] Initialized drm 1.1.0 20060810
[ 4.135719] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312615] brd: module loaded
[ 4.400932] loop: module loaded
[ 4.415679] nand: No NAND device found
[ 4.419453] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429566] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435011] 7 ofpart partitions found on MTD device spi32766.0
[ 4.440870] Creating 7 MTD partitions on "spi32766.0":
[ 4.446051] 0x000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.462110] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.478422] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495340] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.511960] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.529307] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.545630] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.563418] libphy: Fixed MDIO Bus: probed
[ 4.568090] tun: Universal TUN/TAP device driver, 1.6
[ 4.573162] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579497] CAN device driver interface
[ 4.584491] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643299] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649425] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670058] libphy: 48485000.mdio: probed
[ 4.674151] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682455] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691510] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698219] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705241] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.712874] PPP generic driver version 2.4.2
[ 4.717372] PPP BSD Compression module registered
[ 4.722099] PPP Deflate Compression module registered
[ 4.727231] PPP MPPE Compression module registered
[ 4.732047] NET: Registered protocol family 24
[ 4.738952] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745576] ehci-pci: EHCI PCI platform driver
[ 4.750090] ehci-platform: EHCI generic platform driver
[ 4.755715] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.761947] ohci-pci: OHCI PCI platform driver
[ 4.766572] ohci-platform: OHCI generic platform driver
[ 4.772802] mousedev: PS/2 mouse device common for all mice
[ 4.778603] usbcore: registered new interface driver xpad
[ 4.784114] usbcore: registered new interface driver usb_acecad
[ 4.790102] usbcore: registered new interface driver aiptek
[ 4.795785] usbcore: registered new interface driver gtco
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[ 4.801254] usbcore: registered new interface driver hanwang
[ 4.807000] usbcore: registered new interface driver kbtap
[ 4.813089] i2c /dev entries driver
[ 4.817705] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.824837] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831031] gspca_main: v2.14.0 registered
[ 4.838846] device-mapper: uevent: version 1.0.3
[ 4.843649] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.849760] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858273] vip 48970000.vip: VPDMA firmware loaded
[ 4.874630] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880288] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.886756] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018212] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024287] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032519] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040803] usbcore: registered new interface driver usbhid
[ 5.046489] usbhid: USB HID core driver
[ 5.050633] ashmem: initialized
[ 5.059225] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.065416] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074371] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.079950] remoteproc0: 58820000.ipu is available
[ 5.085868] mmc0: new high speed SDIO card at address 0001
[ 5.092582] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101715] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112270] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120663] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128489] remoteproc0: Falling back to user helper
[ 5.133641] remoteproc1: 55020000.ipu is available
[ 5.138539] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147670] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158220] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166620] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174464] remoteproc1: Falling back to user helper
[ 5.179666] remoteproc2: 40800000.dsp is available
[ 5.184607] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.193867] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204750] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212571] remoteproc3: 41000000.dsp is available
[ 5.217570] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226658] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237197] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
```



```
error -2
[ 5.249119] remoteproc2: Falling back to user helper
[ 5.265257] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.274117] usbcore: registered new interface driver snd-usb-audio
[ 5.282010] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287345] remoteproc3: Falling back to user helper
[ 5.293599] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299054] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.306942] u32 classifier
[ 5.309662]     input device check on
[ 5.313420]     Actions configured
[ 5.316847] Netfilter messages via NETLINK v0.30.
[ 5.321628] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328299] ctnetlink v0.93: registering with nfnetlink.
[ 5.335298] xt_time: kernel timezone is -0000
[ 5.340063] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345639] arp_tables: (C) 2002 David S. Miller
[ 5.350420] Initializing XFRM netlink socket
[ 5.355381] NET: Registered protocol family 10
[ 5.370950] mip6: Mobile IPv6
[ 5.374007] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.379759] sit: IPv6 over IPv4 tunneling driver
[ 5.384978] NET: Registered protocol family 17
[ 5.389465] NET: Registered protocol family 15
[ 5.393958] can: controller area network core (rev 20120528 abi 9)
[ 5.400222] NET: Registered protocol family 29
[ 5.404767] can: raw protocol (rev 20120528)
[ 5.409062] can: broadcast manager protocol (rev 20120528 t)
[ 5.414777] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420595] NET: Registered protocol family 41
[ 5.425423] omap_voltage_late_init: Voltage driver support not added
[ 5.432407] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438647] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.444905] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.451508] Power Management for TI OMAP4+ devices.
[ 5.456668] Registering SWP/SWPB emulation handler
[ 5.461937] registered taskstats version 1
[ 5.466939] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474517] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492033] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501003] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507024] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513476] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521143] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527410] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533688] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541227] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.549094] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556653] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562610] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569150] hctosys: unable to open rtc device (rtc0)
[ 5.583345] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591270] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.603763] evm_1v8: disabling
[ 5.606840] evm_3v3_sw: disabling
[ 5.610168] aic_dvdd: disabling
[ 5.613403] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619687] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
```

```
[ 5.626200] vmmcwl_fixed: disabling
[ 5.629714] evm_3v3_sd: disabling
[ 5.633960] ALSA device list:
[ 5.636942]   No soundcards found.
[ 5.641236] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648595] Freeing unused kernel memory: 2048K
[ 5.657105] init: init first stage started!
[ 5.661568] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.789452] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.804882] init: Wait for partitions returned after 10001ms
[ 15.810590] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823210] init: Failed to mount required partitions early ...
[ 15.829219] init: panic: rebooting to bootloader
[ 15.835028] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841807] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849561] init: Shutdown timeout: 6000 ms
[ 15.853859] init: terminating init services
[ 15.858082] init: waitid failed: No child processes
[ 15.863002] init: Terminating running services took 27ms with remaining
services:0
[ 15.870679] init: waitid failed: No child processes
[ 15.875631] init: vold not running, skipping vold shutdown
[ 15.981654] init: powerctl_shutdown_time_ms:146:0
[ 15.986416] init: Reboot ending, jumping to kernel
[ 15.991582] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997147] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002690] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008240] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015602] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
```

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rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem  : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]     .text : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data : 0xc1200000 - 0xc129c1e4   (  625 kB)
[ 0.000000]     .bss : 0xc129c1e4 - 0xc1343628   (  670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000316] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000324] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000736] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000749] pid_max: default: 32768 minimum: 301
[ 0.000822] Security Framework initialized
[ 0.000833] SELinux:  Initializing.
[ 0.000906] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000916] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001493] Initializing cgroup subsys io
[ 0.001512] Initializing cgroup subsys memory
[ 0.001538] Initializing cgroup subsys devices
[ 0.001550] Initializing cgroup subsys freezer
[ 0.001561] Initializing cgroup subsys perf_event
[ 0.001573] Initializing cgroup subsys pids
[ 0.001612] CPU: Testing write buffer coherency: ok
[ 0.001858] /cpus/cpu@0 missing clock-frequency property
[ 0.001876] /cpus/cpu@1 missing clock-frequency property
[ 0.001885] CPU0: update cpu_capacity 1024
[ 0.001893] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001939] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080481] CPU1: failed to come online
[ 1.080511] Brought up 1 CPUs
[ 1.080521] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080528] CPU: All CPU(s) started in HYP mode.
[ 1.080534] CPU: Virtualization extensions available.
[ 1.080565] CPU0: update max cpu_capacity 1024
[ 1.120889] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121917] omap_hwmod: l3_main_2 using broken dt data from ocp

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[ 1.220589] omap_hwmod: cal: no dt node
[ 1.220599] -----[ cut here ]-----
[ 1.220615] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220622] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220629] Modules linked in:
[ 1.220644] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220651] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220657] Backtrace:
[ 1.220674] [

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[ 1.465948] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.
[ 1.465959] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466448] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466458] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.467159] OMAP DMA hardware revision 0.0
[ 1.572228] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver (LinkedList1/2/3 supported)
[ 1.573498] edma 43300000.edma: memcpy is disabled
[ 1.578332] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.583063] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583255] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583423] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583599] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583904] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.584097] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586153] usbcore: registered new interface driver usbfs
[ 1.586215] usbcore: registered new interface driver hub
[ 1.586331] usbcore: registered new device driver usb
[ 1.587836] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602335] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611826] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611938] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612781] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic failed with error -22
[ 1.613511] pcf857x 0-0020: probed
[ 1.614120] pcf857x 0-0021: probed
[ 1.614267] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632941] omap_i2c 48072000.i2c: controller timed out
[ 2.652971] pcf857x: probe of 1-0026 failed with error -110
[ 2.653533] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653988] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673190] pcf857x 3-0021: probed
[ 2.673218] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673449] media: Linux media interface: v0.10
[ 2.673503] Linux video capture interface: v2.00
[ 2.673547] pps_core: LinuxPPS API ver. 1 registered
[ 2.673555] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>
[ 2.673581] PTP clock support registered
[ 2.673632] EDAC MC: Ver: 3.0.0
[ 2.683586] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683883] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684357] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693544] clocksource: Switched to clocksource arch_sys_counter
[ 2.736835] NET: Registered protocol family 2
[ 2.737436] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737500] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737625] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737680] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737712] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737863] NET: Registered protocol family 1
[ 2.738447] Trying to unpack rootfs image as initramfs...
[ 2.782672] Freeing initrd memory: 1092K
[ 2.783734] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters available
[ 2.786434] audit: initializing netlink subsys (disabled)
[ 2.786494] audit: type=2000 audit(2.779:1): initialized
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[ 2.803860] VFS: Disk quotas dquot_6.6.0
[ 2.804031] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815144] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815400] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815732] fuse init (API version 7.23)
[ 2.820698] bounce: pool size: 64 pages
[ 2.820859] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820874] io scheduler noop registered
[ 2.820886] io scheduler deadline registered
[ 2.820917] io scheduler cfq registered (default)
[ 2.825783] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829112] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829150]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829172]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860743] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860922] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860936] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860947] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860957] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861371] PCI: bus0: Fast back to back transfers disabled
[ 2.861494] PCI: bus1: Fast back to back transfers enabled
[ 2.861585] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861601] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861613] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861837] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866786] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869259] console [ttyS0] disabled
[ 2.869319] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116192] console [ttyS0] enabled
[ 4.120230] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129577] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139630] [drm] Initialized drm 1.1.0 20060810
[ 4.145911] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322808] brd: module loaded
[ 4.411154] loop: module loaded
[ 4.425904] nand: No NAND device found
[ 4.429677] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439789] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445235] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451093] Creating 7 MTD partitions on "spi32766.0":
[ 4.456276] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472335] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488648] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505561] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.522183] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539527] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555852] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573636] libphy: Fixed MDIO Bus: probed
[ 4.578301] tun: Universal TUN/TAP device driver, 1.6
[ 4.583373] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589708] CAN device driver interface
[ 4.594697] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653582] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659709] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680484] libphy: 48485000.mdio: probed
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[ 4.684579] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692883] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701937] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708642] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715661] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723297] PPP generic driver version 2.4.2
[ 4.727796] PPP BSD Compression module registered
[ 4.732525] PPP Deflate Compression module registered
[ 4.737655] PPP MPPE Compression module registered
[ 4.742471] NET: Registered protocol family 24
[ 4.749385] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.756011] ehci-pci: EHCI PCI platform driver
[ 4.760524] ehci-platform: EHCI generic platform driver
[ 4.766148] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772379] ohci-pci: OHCI PCI platform driver
[ 4.777001] ohci-platform: OHCI generic platform driver
[ 4.783231] mousedev: PS/2 mouse device common for all mice
[ 4.789032] usbcore: registered new interface driver xpad
[ 4.794543] usbcore: registered new interface driver usb_acecad
[ 4.800530] usbcore: registered new interface driver aiptek
[ 4.806212] usbcore: registered new interface driver gtco
[ 4.811682] usbcore: registered new interface driver hanwang
[ 4.817427] usbcore: registered new interface driver kbtabs
[ 4.823519] i2c /dev entries driver
[ 4.828128] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835258] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841454] gspca_main: v2.14.0 registered
[ 4.849260] device-mapper: uevent: version 1.0.3
[ 4.854066] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860181] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868693] vip 48970000.vip: VPDMA firmware loaded
[ 4.884983] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890637] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897103] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028584] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034659] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042892] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051266] usbcore: registered new interface driver usbhid
[ 5.056915] usbhid: USB HID core driver
[ 5.061059] ashmem: initialized
[ 5.077667] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.083813] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091675] remoteproc0: 58820000.ipu is available
[ 5.096625] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.105667] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.116245] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.124658] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.132467] remoteproc0: Falling back to user helper
[ 5.137647] remoteproc1: 55020000.ipu is available
[ 5.142663] remoteproc1: Note: remoteproc is still under development and
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considered experimental.
[ 5.151720] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.162302] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.170733] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.178574] remoteproc1: Falling back to user helper
[ 5.183753] remoteproc2: 40800000.dsp is available
[ 5.188768] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.198942] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.204492] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.215914] mmc0: new high speed SDIO card at address 0001
[ 5.222005] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.230113] remoteproc3: 41000000.dsp is available
[ 5.235060] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.245221] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.253433] remoteproc2: Falling back to user helper
[ 5.258554] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.283815] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.292660] usbcore: registered new interface driver snd-usb-audio
[ 5.300639] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.305949] remoteproc3: Falling back to user helper
[ 5.312044] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.317651] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.324404] u32 classifier
[ 5.327124]     input device check on
[ 5.330866]     Actions configured
[ 5.334339] Netfilter messages via NETLINK v0.30.
[ 5.339121] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.346925] ctnetlink v0.93: registering with nfnetlink.
[ 5.352751] xt_time: kernel timezone is -0000
[ 5.357574] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.363098] arp_tables: (C) 2002 David S. Miller
[ 5.367927] Initializing XFRM netlink socket
[ 5.372869] NET: Registered protocol family 10
[ 5.388495] mip6: Mobile IPv6
[ 5.391502] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.397308] sit: IPv6 over IPv4 tunneling driver
[ 5.402507] NET: Registered protocol family 17
[ 5.407022] NET: Registered protocol family 15
[ 5.411491] can: controller area network core (rev 20120528 abi 9)
[ 5.417773] NET: Registered protocol family 29
[ 5.422253] can: raw protocol (rev 20120528)
[ 5.426567] can: broadcast manager protocol (rev 20120528 t)
[ 5.432261] can: netlink gateway (rev 20130117) max_hops=1
[ 5.438094] NET: Registered protocol family 41
[ 5.442894] omap_voltage_late_init: Voltage driver support not added
[ 5.449903] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.456142] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.462384] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.469002] Power Management for TI OMAP4+ devices.
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[ 5.474162] Registering SWP/SWPB emulation handler
[ 5.479431] registered taskstats version 1
[ 5.484429] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.491982] dmm 4e000000.dmm: initialized all PAT entries
[ 5.509533] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.518504] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.524524] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.530911] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.538647] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.544915] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.551155] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.558741] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.566627] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.574149] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.580104] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.586637] hctosys: unable to open rtc device (rtc0)
[ 5.603633] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611605] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.621280] evm_1v8: disabling
[ 5.624431] evm_3v3_sw: disabling
[ 5.627763] aic_dvdd: disabling
[ 5.630916] vmmcwl_fixed: disabling
[ 5.634489] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.640756] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.647276] evm_3v3_sd: disabling
[ 5.650826] ALSA device list:
[ 5.655103] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.661949] No soundcards found.
[ 5.667080] Freeing unused kernel memory: 2048K
[ 5.674543] init: init first stage started!
[ 5.679007] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.807276] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.822171] init: Wait for partitions returned after 10001ms
[ 15.827903] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.840517] init: Failed to mount required partitions early ...
[ 15.847637] init: panic: rebooting to bootloader
[ 15.852289] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.859110] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.866860] init: Shutdown timeout: 6000 ms
[ 15.871112] init: terminating init services
[ 15.875386] init: waitid failed: No child processes
[ 15.880306] init: Terminating running services took 28ms with remaining
services:0
[ 15.887980] init: waitid failed: No child processes
[ 15.892891] init: vold not running, skipping vold shutdown
[ 15.998948] init: powerctl_shutdown_time_ms:146:0
[ 16.003709] init: Reboot ending, jumping to kernel
[ 16.008879] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.014446] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.019989] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.025539] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.032878] reboot: Restarting system with command 'bootloader'

```

```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v

```

no pinctrl for ddr_1_8v
Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
```

```
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000316] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000324] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000735] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000749] pid_max: default: 32768 minimum: 301
[ 0.000822] Security Framework initialized
[ 0.000833] SELinux: Initializing.
```

```

[ 0.000905] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000915] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001489] Initializing cgroup subsys io
[ 0.001507] Initializing cgroup subsys memory
[ 0.001533] Initializing cgroup subsys devices
[ 0.001546] Initializing cgroup subsys freezer
[ 0.001557] Initializing cgroup subsys perf_event
[ 0.001569] Initializing cgroup subsys pids
[ 0.001607] CPU: Testing write buffer coherency: ok
[ 0.001852] /cpus/cpu@0 missing clock-frequency property
[ 0.001870] /cpus/cpu@1 missing clock-frequency property
[ 0.001879] CPU0: update cpu_capacity 1024
[ 0.001887] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001933] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080491] CPU1: failed to come online
[ 1.080521] Brought up 1 CPUs
[ 1.080531] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080537] CPU: All CPU(s) started in HYP mode.
[ 1.080543] CPU: Virtualization extensions available.
[ 1.080575] CPU0: update max cpu_capacity 1024
[ 1.120904] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121935] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220671] omap_hwmod: cal: no dt node
[ 1.220683] -----[ cut here ]-----
[ 1.220697] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220721] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220728] Modules linked in:
[ 1.220743] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220751] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220757] Backtrace:
[ 1.220774] [] (dump_backtrace) from [

```

```
[ 1.220997] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221016] r4:00000000
[ 1.221031] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221037] r5:c0b46388 r4:00000000
[ 1.221064] ---[ end trace 8091c3b5f91d6735 ]---
[ 1.309462] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309485] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314195] pinctrl core: initialized pinctrl subsystem
[ 1.315216] NET: Registered protocol family 16
[ 1.316353] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360924] cpuidle: using governor ladder
[ 1.420977] cpuidle: using governor menu
[ 1.429942] OMAP GPIO hardware version 0.1
[ 1.434103] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436452] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453771] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453786] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460553] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460861] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461133] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465629] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465640] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466132] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466142] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466840] OMAP DMA hardware revision 0.0
[ 1.571994] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573265] edma 43300000.edma: memcpy is disabled
[ 1.578081] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582823] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583018] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583188] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583364] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583670] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583863] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585919] usbcore: registered new interface driver usbfs
[ 1.585980] usbcore: registered new interface driver hub
[ 1.586094] usbcore: registered new device driver usb
[ 1.587603] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602096] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611585] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611700] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612551] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613282] pcf857x 0-0020: probed
[ 1.613891] pcf857x 0-0021: probed
[ 1.614036] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632713] omap_i2c 48072000.i2c: controller timed out
[ 2.652742] pcf857x: probe of 1-0026 failed with error -110
[ 2.653306] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653762] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672967] pcf857x 3-0021: probed
[ 2.672995] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673225] media: Linux media interface: v0.10
```

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[ 2.673279] Linux video capture interface: v2.00
[ 2.673322] pps_core: LinuxPPS API ver. 1 registered
[ 2.673329] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673355] PTP clock support registered
[ 2.673405] EDAC MC: Ver: 3.0.0
[ 2.683362] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683662] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684128] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693313] clocksource: Switched to clocksource arch_sys_counter
[ 2.736792] NET: Registered protocol family 2
[ 2.737393] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737457] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737582] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737636] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737667] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737819] NET: Registered protocol family 1
[ 2.738411] Trying to unpack rootfs image as initramfs...
[ 2.782584] Freeing initrd memory: 1092K
[ 2.783646] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786336] audit: initializing netlink subsys (disabled)
[ 2.786395] audit: type=2000 audit(2.779:1): initialized
[ 2.803714] VFS: Disk quotas dquot_6.6.0
[ 2.803888] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815009] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815263] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815589] fuse init (API version 7.23)
[ 2.820540] bounce: pool size: 64 pages
[ 2.820699] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820713] io scheduler noop registered
[ 2.820725] io scheduler deadline registered
[ 2.820755] io scheduler cfq registered (default)
[ 2.825598] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829053] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829092]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829114]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860719] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860897] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860911] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860922] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860932] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861350] PCI: bus0: Fast back to back transfers disabled
[ 2.861474] PCI: bus1: Fast back to back transfers enabled
[ 2.861565] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861581] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861595] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861819] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866752] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869211] console [ttyS0] disabled
[ 2.869272] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116190] console [ttyS0] enabled
[ 4.120228] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129578] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139632] [drm] Initialized drm 1.1.0 20060810
[ 4.145938] omapdss_dss 58000000.dss: master bind failed: -517
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[ 4.322835] brd: module loaded
[ 4.411186] loop: module loaded
[ 4.425927] nand: No NAND device found
[ 4.429703] omap2-nand 8000000.nand: scan failed, may be bus-width mismatch
[ 4.439817] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445262] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451121] Creating 7 MTD partitions on "spi32766.0":
[ 4.456303] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472366] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488679] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505597] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522215] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539562] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.555889] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.573684] libphy: Fixed MDIO Bus: probed
[ 4.578360] tun: Universal TUN/TAP device driver, 1.6
[ 4.583479] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589773] CAN device driver interface
[ 4.594770] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653351] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659478] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680459] libphy: 48485000.mdio: probed
[ 4.684553] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692856] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701900] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708609] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715624] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723262] PPP generic driver version 2.4.2
[ 4.727758] PPP BSD Compression module registered
[ 4.732487] PPP Deflate Compression module registered
[ 4.737617] PPP MPPE Compression module registered
[ 4.742432] NET: Registered protocol family 24
[ 4.749350] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755974] ehci-pci: EHCI PCI platform driver
[ 4.760485] ehci-platform: EHCI generic platform driver
[ 4.766105] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772336] ohci-pci: OHCI PCI platform driver
[ 4.776974] ohci-platform: OHCI generic platform driver
[ 4.783203] mousedev: PS/2 mouse device common for all mice
[ 4.789006] usbcore: registered new interface driver xpad
[ 4.794517] usbcore: registered new interface driver usb_acecad
[ 4.800505] usbcore: registered new interface driver aiptek
[ 4.806188] usbcore: registered new interface driver gtco
[ 4.811657] usbcore: registered new interface driver hanwang
[ 4.817402] usbcore: registered new interface driver kbtap
[ 4.823516] i2c /dev entries driver
[ 4.828112] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835244] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841431] gspca_main: v2.14.0 registered
[ 4.849239] device-mapper: uevent: version 1.0.3
[ 4.854040] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860154] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868668] vip 48970000.vip: VPDMA firmware loaded
[ 4.884958] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890614] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
```



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[ 4.897084] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028257] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034333] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042568] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050878] usbcore: registered new interface driver usbhid
[ 5.056528] usbhid: USB HID core driver
[ 5.060673] ashmem: initialized
[ 5.069271] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075460] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084415] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.089993] remoteproc0: 58820000.ipu is available
[ 5.095881] mmc0: new high speed SDIO card at address 0001
[ 5.102597] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111732] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122290] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130683] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138507] remoteproc0: Falling back to user helper
[ 5.143660] remoteproc1: 55020000.ipu is available
[ 5.148559] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157693] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168244] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176649] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184493] remoteproc1: Falling back to user helper
[ 5.189696] remoteproc2: 40800000.dsp is available
[ 5.194639] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203898] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214780] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222600] remoteproc3: 41000000.dsp is available
[ 5.227601] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236688] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247224] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259141] remoteproc2: Falling back to user helper
[ 5.275281] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284146] usbcore: registered new interface driver snd-usb-audio
[ 5.292037] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297374] remoteproc3: Falling back to user helper
[ 5.303614] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309069] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316940] u32 classifier
[ 5.319659]     input device check on
[ 5.323416]     Actions configured
[ 5.326843] Netfilter messages via NETLINK v0.30.
```

```
[ 5.331623] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338298] ctnetlink v0.93: registering with nfnetlink.
[ 5.345298] xt_time: kernel timezone is -0000
[ 5.350062] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355638] arp_tables: (C) 2002 David S. Miller
[ 5.360421] Initializing XFRM netlink socket
[ 5.365390] NET: Registered protocol family 10
[ 5.380965] mip6: Mobile IPv6
[ 5.384022] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389779] sit: IPv6 over IPv4 tunneling driver
[ 5.395000] NET: Registered protocol family 17
[ 5.399488] NET: Registered protocol family 15
[ 5.403982] can: controller area network core (rev 20120528 abi 9)
[ 5.410246] NET: Registered protocol family 29
[ 5.414789] can: raw protocol (rev 20120528)
[ 5.419083] can: broadcast manager protocol (rev 20120528 t)
[ 5.424799] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430623] NET: Registered protocol family 41
[ 5.435455] omap_voltage_late_init: Voltage driver support not added
[ 5.442440] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448679] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454937] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461538] Power Management for TI OMAP4+ devices.
[ 5.466701] Registering SWP/SWPB emulation handler
[ 5.471967] registered taskstats version 1
[ 5.476961] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484545] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502066] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511046] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517070] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523522] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531192] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537459] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543739] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551279] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559141] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566698] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572669] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579210] hctosys: unable to open rtc device (rtc0)
[ 5.593393] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601323] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613893] evm_1v8: disabling
[ 5.616968] evm_3v3_sw: disabling
[ 5.620297] aic_dvdd: disabling
[ 5.623532] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629809] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636324] vmmcwl_fixed: disabling
[ 5.639838] evm_3v3_sd: disabling
[ 5.644096] ALSA device list:
[ 5.647078]   No soundcards found.
[ 5.651386] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658738] Freeing unused kernel memory: 2048K
[ 5.667240] init: init first stage started!
[ 5.671705] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799929] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814932] init: Wait for partitions returned after 10001ms
[ 15.820640] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
```

```
[ 15.833260] init: Failed to mount required partitions early ...
[ 15.839267] init: panic: rebooting to bootloader
[ 15.845075] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851857] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859610] init: Shutdown timeout: 6000 ms
[ 15.863908] init: terminating init services
[ 15.868131] init: waitid failed: No child processes
[ 15.873051] init: Terminating running services took 27ms with remaining
services:0
[ 15.880729] init: waitid failed: No child processes
[ 15.885681] init: vold not running, skipping vold shutdown
[ 15.991705] init: powerctl_shutdown_time_ms:146:0
[ 15.996466] init: Reboot ending, jumping to kernel
[ 16.001638] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007203] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012744] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018294] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025650] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
```

Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
```

```

[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000322] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000331] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000742] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000756] pid_max: default: 32768 minimum: 301
[ 0.000830] Security Framework initialized
[ 0.000841] SELinux: Initializing.
[ 0.000918] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000928] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001504] Initializing cgroup subsys io
[ 0.001522] Initializing cgroup subsys memory
[ 0.001547] Initializing cgroup subsys devices
[ 0.001560] Initializing cgroup subsys freezer
[ 0.001571] Initializing cgroup subsys perf_event
[ 0.001583] Initializing cgroup subsys pids
[ 0.001621] CPU: Testing write buffer coherency: ok
[ 0.001870] /cpus/cpu@0 missing clock-frequency property
[ 0.001887] /cpus/cpu@1 missing clock-frequency property
[ 0.001896] CPU0: update cpu_capacity 1024
[ 0.001904] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001949] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080482] CPU1: failed to come online
[ 1.080514] Brought up 1 CPUs
[ 1.080523] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080530] CPU: All CPU(s) started in HYP mode.
[ 1.080537] CPU: Virtualization extensions available.
[ 1.080569] CPU0: update max cpu_capacity 1024
[ 1.120895] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121915] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221273] omap_hwmod: cal: no dt node
[ 1.221282] -----[ cut here ]-----
[ 1.221297] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221305] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221311] Modules linked in:
[ 1.221326] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221334] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221341] Backtrace:
[ 1.221358] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.221365] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675

```

```

[ 1.221392] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221405] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221411] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221433] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221440] r3:c0e065f8 r2:c0e03fe0
[ 1.221451] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221471] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221478] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221499] r4:c1217c48
[ 1.221512] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221518] r5:c120bd68 r4:00000001
[ 1.221534] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221540] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221560] r4:00000001
[ 1.221574] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221580] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221600] r4:00000000
[ 1.221614] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221620] r5:c0b46388 r4:00000000
[ 1.221646] ---[ end trace 24b48c4d73825732 ]---
[ 1.310091] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310112] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314223] pinctrl core: initialized pinctrl subsystem
[ 1.315241] NET: Registered protocol family 16
[ 1.316369] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360914] cpuidle: using governor ladder
[ 1.420966] cpuidle: using governor menu
[ 1.429955] OMAP GPIO hardware version 0.1
[ 1.434141] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436493] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453787] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453802] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460550] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460862] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461135] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465609] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465620] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466105] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466115] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466813] OMAP DMA hardware revision 0.0
[ 1.571996] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573264] edma 43300000.edma: memcpy is disabled
[ 1.578080] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582821] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583014] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583184] omap-iommu 58882000.mmu: 58882000.mmu registered

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[ 1.583360] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583666] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583860] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585923] usbcore: registered new interface driver usbfs
[ 1.585982] usbcore: registered new interface driver hub
[ 1.586096] usbcore: registered new device driver usb
[ 1.587602] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602089] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611583] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611697] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612540] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613270] pcf857x 0-0020: probed
[ 1.613887] pcf857x 0-0021: probed
[ 1.614034] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632691] omap_i2c 48072000.i2c: controller timed out
[ 2.652719] pcf857x: probe of 1-0026 failed with error -110
[ 2.653282] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653735] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672937] pcf857x 3-0021: probed
[ 2.672965] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673195] media: Linux media interface: v0.10
[ 2.673249] Linux video capture interface: v2.00
[ 2.673290] pps_core: LinuxPPS API ver. 1 registered
[ 2.673298] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673324] PTP clock support registered
[ 2.673375] EDAC MC: Ver: 3.0.0
[ 2.683338] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683638] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684108] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693284] clocksource: Switched to clocksource arch_sys_counter
[ 2.736527] NET: Registered protocol family 2
[ 2.737128] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737193] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737318] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737371] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737402] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737557] NET: Registered protocol family 1
[ 2.738147] Trying to unpack rootfs image as initramfs...
[ 2.782335] Freeing initrd memory: 1092K
[ 2.783268] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786107] audit: initializing netlink subsys (disabled)
[ 2.786166] audit: type=2000 audit(2.779:1): initialized
[ 2.803593] VFS: Disk quotas dquot_6.6.0
[ 2.803766] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814871] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815126] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815454] fuse init (API version 7.23)
[ 2.820419] bounce: pool size: 64 pages
[ 2.820579] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820594] io scheduler noop registered
[ 2.820605] io scheduler deadline registered
[ 2.820637] io scheduler cfq registered (default)
[ 2.825496] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828884] PCI host bridge /ocp/axi0@/pcie_rc@51000000 ranges:
[ 2.828923] IO 0x20003000..0x20012fff -> 0x00000000
```

```
[ 2.828945] MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860522] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860704] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860718] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860728] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860738] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861153] PCI: bus0: Fast back to back transfers disabled
[ 2.861277] PCI: bus1: Fast back to back transfers enabled
[ 2.861367] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861383] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861396] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861620] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866544] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869001] console [ttyS0] disabled
[ 2.869064] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115934] console [ttyS0] enabled
[ 4.119974] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129323] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139381] [drm] Initialized drm 1.1.0 20060810
[ 4.145682] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322576] brd: module loaded
[ 4.410922] loop: module loaded
[ 4.425677] nand: No NAND device found
[ 4.429451] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439572] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445016] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450874] Creating 7 MTD partitions on "spi32766.0":
[ 4.456056] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472113] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488424] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505339] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521959] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539311] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555637] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573428] libphy: Fixed MDIO Bus: probed
[ 4.578101] tun: Universal TUN/TAP device driver, 1.6
[ 4.583173] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589507] CAN device driver interface
[ 4.594493] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653321] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659447] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680220] libphy: 48485000.mdio: probed
[ 4.684314] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692617] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701666] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708374] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715399] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723039] PPP generic driver version 2.4.2
[ 4.727537] PPP BSD Compression module registered
[ 4.732266] PPP Deflate Compression module registered
[ 4.737398] PPP MPPE Compression module registered
[ 4.742214] NET: Registered protocol family 24
[ 4.749129] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
```



```
[ 4.755754] ehci-pci: EHCI PCI platform driver
[ 4.760268] ehci-platform: EHCI generic platform driver
[ 4.765889] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772120] ohci-pci: OHCI PCI platform driver
[ 4.776733] ohci-platform: OHCI generic platform driver
[ 4.782966] mousedev: PS/2 mouse device common for all mice
[ 4.788766] usbcore: registered new interface driver xpad
[ 4.794276] usbcore: registered new interface driver usb_acecad
[ 4.800264] usbcore: registered new interface driver aiptek
[ 4.805946] usbcore: registered new interface driver gtco
[ 4.811415] usbcore: registered new interface driver hanwang
[ 4.817161] usbcore: registered new interface driver kbtap
[ 4.823245] i2c /dev entries driver
[ 4.827851] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834991] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841181] gspca_main: v2.14.0 registered
[ 4.848977] device-mapper: uevent: version 1.0.3
[ 4.853780] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859894] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868407] vip 48970000.vip: VPDMA firmware loaded
[ 4.884707] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890363] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896830] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028232] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034310] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042545] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050903] usbcore: registered new interface driver usbhid
[ 5.056550] usbhid: USB HID core driver
[ 5.060692] ashmem: initialized
[ 5.069288] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076477] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082146] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090920] mmc0: new high speed SDIO card at address 0001
[ 5.096503] remoteproc0: 58820000.ipu is available
[ 5.101402] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111737] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122299] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130696] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138520] remoteproc0: Falling back to user helper
[ 5.143672] remoteproc1: 55020000.ipu is available
[ 5.148570] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157704] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168254] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176655] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184499] remoteproc1: Falling back to user helper
[ 5.189702] remoteproc2: 40800000.dsp is available
[ 5.194643] remoteproc2: Note: remoteproc is still under development and
considered experimental.
```

```
[ 5.203903] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214782] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222602] remoteproc3: 41000000.dsp is available
[ 5.227605] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236694] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247233] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259154] remoteproc2: Falling back to user helper
[ 5.275292] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284158] usbcore: registered new interface driver snd-usb-audio
[ 5.292049] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297382] remoteproc3: Falling back to user helper
[ 5.303638] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309094] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316975] u32 classifier
[ 5.319695]     input device check on
[ 5.323450]     Actions configured
[ 5.326877] Netfilter messages via NETLINK v0.30.
[ 5.331657] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338327] ctnetlink v0.93: registering with nfnetlink.
[ 5.345328] xt_time: kernel timezone is -0000
[ 5.350091] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355670] arp_tables: (C) 2002 David S. Miller
[ 5.360454] Initializing XFRM netlink socket
[ 5.365430] NET: Registered protocol family 10
[ 5.381005] mip6: Mobile IPv6
[ 5.384062] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389819] sit: IPv6 over IPv4 tunneling driver
[ 5.395049] NET: Registered protocol family 17
[ 5.399536] NET: Registered protocol family 15
[ 5.404028] can: controller area network core (rev 20120528 abi 9)
[ 5.410292] NET: Registered protocol family 29
[ 5.414835] can: raw protocol (rev 20120528)
[ 5.419130] can: broadcast manager protocol (rev 20120528 t)
[ 5.424847] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430669] NET: Registered protocol family 41
[ 5.435497] omap_voltage_late_init: Voltage driver support not added
[ 5.442477] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448715] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454974] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461573] Power Management for TI OMAP4+ devices.
[ 5.466735] Registering SWP/SWPB emulation handler
[ 5.472003] registered taskstats version 1
[ 5.477004] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484589] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502118] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511089] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517107] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523564] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531230] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537497] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543776] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551314] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559184] input: gpio_keys as /devices/platform/gpio_keys/input/input0
```

```
[ 5.566740] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572700] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579236] hctosys: unable to open rtc device (rtc0)
[ 5.593369] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601296] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613884] evm_1v8: disabling
[ 5.616961] evm_3v3_sw: disabling
[ 5.620288] aic_dvdd: disabling
[ 5.623527] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629809] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636323] vmmcwl_fixed: disabling
[ 5.639837] evm_3v3_sd: disabling
[ 5.644088] ALSA device list:
[ 5.647070]   No soundcards found.
[ 5.651375] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658731] Freeing unused kernel memory: 2048K
[ 5.667259] init: init first stage started!
[ 5.671724] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799778] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814903] init: Wait for partitions returned after 10001ms
[ 15.820612] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833233] init: Failed to mount required partitions early ...
[ 15.839240] init: panic: rebooting to bootloader
[ 15.845049] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851829] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859580] init: Shutdown timeout: 6000 ms
[ 15.863879] init: terminating init services
[ 15.868104] init: waitid failed: No child processes
[ 15.873023] init: Terminating running services took 27ms with remaining
services:0
[ 15.880699] init: waitid failed: No child processes
[ 15.885652] init: vold not running, skipping vold shutdown
[ 15.991673] init: powerctl_shutdown_time_ms:146:0
[ 15.996435] init: Reboot ending, jumping to kernel
[ 16.001606] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007170] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012713] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018265] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025620] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
```

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...

Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
```

```
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000321] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000329] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000731] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000746] pid_max: default: 32768 minimum: 301
[ 0.000819] Security Framework initialized
[ 0.000830] SELinux:  Initializing.
[ 0.000903] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000914] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001483] Initializing cgroup subsys io
[ 0.001500] Initializing cgroup subsys memory
[ 0.001526] Initializing cgroup subsys devices
[ 0.001539] Initializing cgroup subsys freezer
[ 0.001550] Initializing cgroup subsys perf_event
[ 0.001562] Initializing cgroup subsys pids
[ 0.001601] CPU: Testing write buffer coherency: ok
[ 0.001849] /cpus/cpu@0 missing clock-frequency property
[ 0.001865] /cpus/cpu@1 missing clock-frequency property
[ 0.001874] CPU0: update cpu_capacity 1024
[ 0.001882] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
```

```
[ 0.001929] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080483] CPU1: failed to come online
[ 1.080514] Brought up 1 CPUs
[ 1.080524] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080531] CPU: All CPU(s) started in HYP mode.
[ 1.080536] CPU: Virtualization extensions available.
[ 1.080568] CPU0: update max cpu_capacity 1024
[ 1.120889] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121923] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220880] omap_hwmod: cal: no dt node
[ 1.220891] -----[ cut here ]-----
[ 1.220906] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220913] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220919] Modules linked in:
[ 1.220934] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220941] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220948] Backtrace:
[ 1.220964] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.220971] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221000] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221012] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221019] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221042] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221048] r3:c0e065f8 r2:c0e03fe0
[ 1.221059] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221081] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221087] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221108] r4:c1217c48
[ 1.221121] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221128] r5:c120bd68 r4:00000001
[ 1.221144] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221151] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221171] r4:00000001
[ 1.221185] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221191] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221211] r4:00000000
[ 1.221225] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221232] r5:c0b46388 r4:00000000
[ 1.221257] ---[ end trace b9823de2aff69a84 ]---
[ 1.310126] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310148] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314258] pinctrl core: initialized pinctrl subsystem
[ 1.315275] NET: Registered protocol family 16
[ 1.316400] DMA: preallocated 256 KiB pool for atomic coherent allocations
```

```
[ 1.360916] cpuidle: using governor ladder
[ 1.420969] cpuidle: using governor menu
[ 1.429959] OMAP GPIO hardware version 0.1
[ 1.434136] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436490] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453826] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453840] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460608] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460916] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461194] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465696] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465706] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466191] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466201] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466894] OMAP DMA hardware revision 0.0
[ 1.572004] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573270] edma 43300000.edma: memcpy is disabled
[ 1.578111] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582831] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583028] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583198] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583373] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583682] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583875] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585930] usbcore: registered new interface driver usbfs
[ 1.585991] usbcore: registered new interface driver hub
[ 1.586108] usbcore: registered new device driver usb
[ 1.587614] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602097] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611576] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611689] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612532] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613266] pcf857x 0-0020: probed
[ 1.613876] pcf857x 0-0021: probed
[ 1.614021] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632719] omap_i2c 48072000.i2c: controller timed out
[ 2.652748] pcf857x: probe of 1-0026 failed with error -110
[ 2.653307] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653764] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672966] pcf857x 3-0021: probed
[ 2.672994] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673230] media: Linux media interface: v0.10
[ 2.673286] Linux video capture interface: v2.00
[ 2.673329] pps_core: LinuxPPS API ver. 1 registered
[ 2.673337] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673362] PTP clock support registered
[ 2.673412] EDAC MC: Ver: 3.0.0
[ 2.683365] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683663] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684131] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693319] clocksource: Switched to clocksource arch_sys_counter
[ 2.736654] NET: Registered protocol family 2
[ 2.737256] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737322] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
```

```
[ 2.737447] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737502] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737533] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737686] NET: Registered protocol family 1
[ 2.738281] Trying to unpack rootfs image as initramfs...
[ 2.782455] Freeing initrd memory: 1092K
[ 2.783523] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786221] audit: initializing netlink subsys (disabled)
[ 2.786278] audit: type=2000 audit(2.779:1): initialized
[ 2.803654] VFS: Disk quotas dquot_6.6.0
[ 2.803826] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814943] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815195] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815520] fuse init (API version 7.23)
[ 2.820493] bounce: pool size: 64 pages
[ 2.820655] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820670] io scheduler noop registered
[ 2.820681] io scheduler deadline registered
[ 2.820713] io scheduler cfq registered (default)
[ 2.825583] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829019] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.829058]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829080]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860731] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860911] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860925] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860936] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860946] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861360] PCI: bus0: Fast back to back transfers disabled
[ 2.861484] PCI: bus1: Fast back to back transfers enabled
[ 2.861575] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861591] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861604] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861829] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866764] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869229] console [ttyS0] disabled
[ 2.869291] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116225] console [ttyS0] enabled
[ 4.120263] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129613] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139662] [drm] Initialized drm 1.1.0 20060810
[ 4.145938] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322808] brd: module loaded
[ 4.411147] loop: module loaded
[ 4.425894] nand: No NAND device found
[ 4.429667] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439804] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445248] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451106] Creating 7 MTD partitions on "spi32766.0":
[ 4.456287] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.472345] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.488661] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505572] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.522190] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539541] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
```



```
[ 4.555869] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573659] libphy: Fixed MDIO Bus: probed
[ 4.578329] tun: Universal TUN/TAP device driver, 1.6
[ 4.583447] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589742] CAN device driver interface
[ 4.594733] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653357] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659484] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680249] libphy: 48485000.mdio: probed
[ 4.684343] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692645] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701688] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708394] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715418] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723058] PPP generic driver version 2.4.2
[ 4.727557] PPP BSD Compression module registered
[ 4.732285] PPP Deflate Compression module registered
[ 4.737415] PPP MPPE Compression module registered
[ 4.742232] NET: Registered protocol family 24
[ 4.749143] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755767] ehci-pci: EHCI PCI platform driver
[ 4.760280] ehci-platform: EHCI generic platform driver
[ 4.765902] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772135] ohci-pci: OHCI PCI platform driver
[ 4.776766] ohci-platform: OHCI generic platform driver
[ 4.782990] mousedev: PS/2 mouse device common for all mice
[ 4.788793] usbcore: registered new interface driver xpad
[ 4.794302] usbcore: registered new interface driver usb_acecad
[ 4.800289] usbcore: registered new interface driver aiptek
[ 4.805970] usbcore: registered new interface driver gtco
[ 4.811439] usbcore: registered new interface driver hanwang
[ 4.817186] usbcore: registered new interface driver kbtap
[ 4.823275] i2c /dev entries driver
[ 4.827886] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835011] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841207] gspca_main: v2.14.0 registered
[ 4.849007] device-mapper: uevent: version 1.0.3
[ 4.853809] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859918] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868431] vip 48970000.vip: VPDMA firmware loaded
[ 4.884714] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890372] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896839] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028275] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034350] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042584] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050942] usbcore: registered new interface driver usbhid
[ 5.056588] usbhid: USB HID core driver
[ 5.060730] ashmem: initialized
[ 5.069319] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076492] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082155] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090942] mmc0: new high speed SDIO card at address 0001
```

```
[ 5.096526] remoteproc0: 58820000.ipu is available
[ 5.101425] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111758] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122315] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130706] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138531] remoteproc0: Falling back to user helper
[ 5.143685] remoteproc1: 55020000.ipu is available
[ 5.148584] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157718] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168268] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176673] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184519] remoteproc1: Falling back to user helper
[ 5.189722] remoteproc2: 40800000.dsp is available
[ 5.194662] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203922] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214802] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222621] remoteproc3: 41000000.dsp is available
[ 5.227621] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236710] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247247] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259165] remoteproc2: Falling back to user helper
[ 5.275301] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284166] usbcore: registered new interface driver snd-usb-audio
[ 5.292065] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297402] remoteproc3: Falling back to user helper
[ 5.303633] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309089] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316964] u32 classifier
[ 5.319683]     input device check on
[ 5.323441]     Actions configured
[ 5.326867] Netfilter messages via NETLINK v0.30.
[ 5.331646] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338317] ctnetlink v0.93: registering with nfnetlink.
[ 5.345320] xt_time: kernel timezone is -0000
[ 5.350084] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355659] arp_tables: (C) 2002 David S. Miller
[ 5.360443] Initializing XFRM netlink socket
[ 5.365412] NET: Registered protocol family 10
[ 5.380987] mip6: Mobile IPv6
[ 5.384042] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389796] sit: IPv6 over IPv4 tunneling driver
[ 5.395025] NET: Registered protocol family 17
[ 5.399512] NET: Registered protocol family 15
[ 5.404005] can: controller area network core (rev 20120528 abi 9)
```

```
[ 5.410271] NET: Registered protocol family 29
[ 5.414812] can: raw protocol (rev 20120528)
[ 5.419107] can: broadcast manager protocol (rev 20120528 t)
[ 5.424823] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430642] NET: Registered protocol family 41
[ 5.435475] omap_voltage_late_init: Voltage driver support not added
[ 5.442461] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448702] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454962] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461565] Power Management for TI OMAP4+ devices.
[ 5.466728] Registering SWP/SWPB emulation handler
[ 5.471994] registered taskstats version 1
[ 5.476998] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484592] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502114] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511088] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517100] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523554] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531223] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537489] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543767] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551312] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559171] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566713] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572667] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579205] hctosys: unable to open rtc device (rtc0)
[ 5.593403] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601328] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613845] evm_1v8: disabling
[ 5.616921] evm_3v3_sw: disabling
[ 5.620249] aic_dvdd: disabling
[ 5.623484] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629764] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636279] vmmcwl_fixed: disabling
[ 5.639793] evm_3v3_sd: disabling
[ 5.644041] ALSA device list:
[ 5.647024]   No soundcards found.
[ 5.651321] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658677] Freeing unused kernel memory: 2048K
[ 5.667176] init: init first stage started!
[ 5.671642] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799612] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814939] init: Wait for partitions returned after 10001ms
[ 15.820648] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833266] init: Failed to mount required partitions early ...
[ 15.839275] init: panic: rebooting to bootloader
[ 15.845083] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851864] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859615] init: Shutdown timeout: 6000 ms
[ 15.863914] init: terminating init services
[ 15.868138] init: waitid failed: No child processes
[ 15.873057] init: Terminating running services took 27ms with remaining
services:0
[ 15.880733] init: waitid failed: No child processes
[ 15.885686] init: vold not running, skipping vold shutdown
[ 15.991709] init: powerctl_shutdown_time_ms:146:0
```

```
[ 15.996471] init: Reboot ending, jumping to kernel
[ 16.001642] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007207] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012749] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018301] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025661] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
```

```

[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcbk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbf000000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbf000000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every

```

```

4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000316] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000324] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000733] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000748] pid_max: default: 32768 minimum: 301
[ 0.000820] Security Framework initialized
[ 0.000831] SELinux: Initializing.
[ 0.000904] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000913] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001486] Initializing cgroup subsys io
[ 0.001505] Initializing cgroup subsys memory
[ 0.001531] Initializing cgroup subsys devices
[ 0.001544] Initializing cgroup subsys freezer
[ 0.001556] Initializing cgroup subsys perf_event
[ 0.001567] Initializing cgroup subsys pids
[ 0.001606] CPU: Testing write buffer coherency: ok
[ 0.001853] /cpus/cpu@0 missing clock-frequency property
[ 0.001870] /cpus/cpu@1 missing clock-frequency property
[ 0.001879] CPU0: update cpu_capacity 1024
[ 0.001887] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001935] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080476] CPU1: failed to come online
[ 1.080507] Brought up 1 CPUs
[ 1.080516] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080523] CPU: All CPU(s) started in HYP mode.
[ 1.080529] CPU: Virtualization extensions available.
[ 1.080561] CPU0: update max cpu_capacity 1024
[ 1.110866] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111893] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210663] omap_hwmod: cal: no dt node
[ 1.210689] -----[ cut here ]-----
[ 1.210705] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.210712] omap_hwmod: cal: doesn't have mpu register target base
[ 1.210719] Modules linked in:
[ 1.210733] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.210741] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.210748] Backtrace:
[ 1.210764] [] (dump_backtrace) from [

```

```
[ 1.210919] [<c100f8e8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.210925] r5:c120bd68 r4:00000001
[ 1.210941] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.210947] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.210967] r4:00000001
[ 1.210981] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.210987] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211006] r4:00000000
[ 1.211020] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211026] r5:c0b46388 r4:00000000
[ 1.211052] ---[ end trace d65b3d9432d11d7e ]---
[ 1.299642] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.299662] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304221] pinctrl core: initialized pinctrl subsystem
[ 1.305240] NET: Registered protocol family 16
[ 1.306367] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350895] cpuidle: using governor ladder
[ 1.410942] cpuidle: using governor menu
[ 1.419914] OMAP GPIO hardware version 0.1
[ 1.424071] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426416] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.443661] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443675] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450443] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450751] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.450993] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455533] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455545] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456036] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456046] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456744] OMAP DMA hardware revision 0.0
[ 1.561963] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563225] edma 43300000.edma: memcpy is disabled
[ 1.568064] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572811] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573004] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573172] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573348] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573653] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573845] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575903] usbcore: registered new interface driver usbfs
[ 1.575964] usbcore: registered new interface driver hub
[ 1.576080] usbcore: registered new device driver usb
[ 1.577586] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592074] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601576] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601689] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602535] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
```

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[ 1.603269] pcf857x 0-0020: probed
[ 1.603883] pcf857x 0-0021: probed
[ 1.604028] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622693] omap_i2c 48072000.i2c: controller timed out
[ 2.642720] pcf857x: probe of 1-0026 failed with error -110
[ 2.643280] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643735] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662937] pcf857x 3-0021: probed
[ 2.662965] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663196] media: Linux media interface: v0.10
[ 2.663250] Linux video capture interface: v2.00
[ 2.663291] pps_core: LinuxPPS API ver. 1 registered
[ 2.663299] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663325] PTP clock support registered
[ 2.663376] EDAC MC: Ver: 3.0.0
[ 2.673345] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673643] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674113] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683293] clocksource: Switched to clocksource arch_sys_counter
[ 2.726969] NET: Registered protocol family 2
[ 2.727572] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727636] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727761] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727816] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727848] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.728000] NET: Registered protocol family 1
[ 2.728592] Trying to unpack rootfs image as initramfs...
[ 2.772759] Freeing initrd memory: 1092K
[ 2.773821] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776528] audit: initializing netlink subsys (disabled)
[ 2.776585] audit: type=2000 audit(2.769:1): initialized
[ 2.793987] VFS: Disk quotas dquot_6.6.0
[ 2.794161] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.805276] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805533] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805862] fuse init (API version 7.23)
[ 2.810835] bounce: pool size: 64 pages
[ 2.810994] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.811008] io scheduler noop registered
[ 2.811020] io scheduler deadline registered
[ 2.811051] io scheduler cfq registered (default)
[ 2.815899] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819232] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.819270]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819291]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.850800] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850980] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850995] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.851005] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.851015] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.851430] PCI: bus0: Fast back to back transfers disabled
[ 2.851554] PCI: bus1: Fast back to back transfers enabled
[ 2.851644] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851660] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851673] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851898] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856798] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
```



```
[ 2.859255] console [ttyS0] disabled
[ 2.859317] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106155] console [ttyS0] enabled
[ 4.110191] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119539] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129581] [drm] Initialized drm 1.1.0 20060810
[ 4.135867] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312783] brd: module loaded
[ 4.401112] loop: module loaded
[ 4.415861] nand: No NAND device found
[ 4.419633] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429749] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435192] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441050] Creating 7 MTD partitions on "spi32766.0":
[ 4.446233] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.462287] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.478601] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.495512] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.512139] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.529490] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.545817] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.563610] libphy: Fixed MDIO Bus: probed
[ 4.568279] tun: Universal TUN/TAP device driver, 1.6
[ 4.573397] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579689] CAN device driver interface
[ 4.584684] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643331] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649457] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670409] libphy: 48485000.mdio: probed
[ 4.674503] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682807] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691854] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698560] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705578] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713216] PPP generic driver version 2.4.2
[ 4.717716] PPP BSD Compression module registered
[ 4.722444] PPP Deflate Compression module registered
[ 4.727574] PPP MPPE Compression module registered
[ 4.732391] NET: Registered protocol family 24
[ 4.739306] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745931] ehci-pci: EHCI PCI platform driver
[ 4.750443] ehci-platform: EHCI generic platform driver
[ 4.756069] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762301] ohci-pci: OHCI PCI platform driver
[ 4.766924] ohci-platform: OHCI generic platform driver
[ 4.773154] mousedev: PS/2 mouse device common for all mice
[ 4.778955] usbcore: registered new interface driver xpad
[ 4.784464] usbcore: registered new interface driver usb_acecad
[ 4.790451] usbcore: registered new interface driver aiptek
[ 4.796133] usbcore: registered new interface driver gtco
[ 4.801600] usbcore: registered new interface driver hanwang
[ 4.807348] usbcore: registered new interface driver kbtap
[ 4.813465] i2c /dev entries driver
```

```
[ 4.818057] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825194] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831388] gspca_main: v2.14.0 registered
[ 4.839191] device-mapper: uevent: version 1.0.3
[ 4.843996] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.850107] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858621] vip 48970000.vip: VPDMA firmware loaded
[ 4.874906] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880566] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.887036] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018236] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024312] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032546] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040888] usbcore: registered new interface driver usbhid
[ 5.046571] usbhid: USB HID core driver
[ 5.050718] ashmem: initialized
[ 5.059312] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.066500] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.072163] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.080949] mmc0: new high speed SDIO card at address 0001
[ 5.086533] remoteproc0: 58820000.ipu is available
[ 5.091432] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101763] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112319] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120712] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128535] remoteproc0: Falling back to user helper
[ 5.133688] remoteproc1: 55020000.ipu is available
[ 5.138586] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147719] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158272] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166677] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174521] remoteproc1: Falling back to user helper
[ 5.179724] remoteproc2: 40800000.dsp is available
[ 5.184666] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.193925] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204807] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212627] remoteproc3: 41000000.dsp is available
[ 5.217624] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226713] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237248] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249169] remoteproc2: Falling back to user helper
[ 5.265318] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
```

error -2

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[ 5.274176] usbcore: registered new interface driver snd-usb-audio
[ 5.282062] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287398] remoteproc3: Falling back to user helper
[ 5.293647] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299104] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.306985] u32 classifier
[ 5.309704]     input device check on
[ 5.313461]     Actions configured
[ 5.316888] Netfilter messages via NETLINK v0.30.
[ 5.321668] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328339] ctnetlink v0.93: registering with nfnetlink.
[ 5.335340] xt_time: kernel timezone is -0000
[ 5.340104] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345680] arp_tables: (C) 2002 David S. Miller
[ 5.350465] Initializing XFRM netlink socket
[ 5.355429] NET: Registered protocol family 10
[ 5.371007] mip6: Mobile IPv6
[ 5.374062] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.379820] sit: IPv6 over IPv4 tunneling driver
[ 5.385046] NET: Registered protocol family 17
[ 5.389533] NET: Registered protocol family 15
[ 5.394026] can: controller area network core (rev 20120528 abi 9)
[ 5.400290] NET: Registered protocol family 29
[ 5.404832] can: raw protocol (rev 20120528)
[ 5.409127] can: broadcast manager protocol (rev 20120528 t)
[ 5.414843] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420668] NET: Registered protocol family 41
[ 5.425498] omap_voltage_late_init: Voltage driver support not added
[ 5.432486] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438725] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.444984] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.451587] Power Management for TI OMAP4+ devices.
[ 5.456748] Registering SWP/SWPB emulation handler
[ 5.462011] registered taskstats version 1
[ 5.467007] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474593] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492119] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501085] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507107] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513562] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521236] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527500] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533780] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541315] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.549190] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556751] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562706] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569245] hctosys: unable to open rtc device (rtc0)
[ 5.583378] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591307] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.603999] evm_1v8: disabling
[ 5.607077] evm_3v3_sw: disabling
[ 5.610405] aic_dvdd: disabling
[ 5.613646] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619929] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.626444] vmmcw1_fixed: disabling
[ 5.629958] evm_3v3_sd: disabling
[ 5.634204] ALSA device list:
```

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[ 5.637186] No soundcards found.
[ 5.641498] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648857] Freeing unused kernel memory: 2048K
[ 5.657370] init: init first stage started!
[ 5.661833] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.789711] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.804913] init: Wait for partitions returned after 10001ms
[ 15.810621] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823241] init: Failed to mount required partitions early ...
[ 15.829248] init: panic: rebooting to bootloader
[ 15.835056] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841837] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849591] init: Shutdown timeout: 6000 ms
[ 15.853888] init: terminating init services
[ 15.858109] init: waitid failed: No child processes
[ 15.863030] init: Terminating running services took 27ms with remaining
services:0
[ 15.870706] init: waitid failed: No child processes
[ 15.875658] init: vold not running, skipping vold shutdown
[ 15.981685] init: powerctl_shutdown_time_ms:146:0
[ 15.986445] init: Reboot ending, jumping to kernel
[ 15.991612] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997177] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002721] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008272] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015642] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
```

```

[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xffff0000 (3072 kB)
[ 0.000000] vmalloc : 0xf0800000 - 0xff800000 ( 240 MB)
[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000331] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000339] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000751] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000765] pid_max: default: 32768 minimum: 301
[ 0.000838] Security Framework initialized
[ 0.000849] SELinux: Initializing.
[ 0.000922] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001502] Initializing cgroup subsys io
[ 0.001520] Initializing cgroup subsys memory
[ 0.001546] Initializing cgroup subsys devices
[ 0.001560] Initializing cgroup subsys freezer
[ 0.001571] Initializing cgroup subsys perf_event
[ 0.001583] Initializing cgroup subsys pids
[ 0.001622] CPU: Testing write buffer coherency: ok
[ 0.001870] /cpus/cpu@0 missing clock-frequency property
[ 0.001887] /cpus/cpu@1 missing clock-frequency property
[ 0.001897] CPU0: update cpu_capacity 1024
[ 0.001905] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001951] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080486] CPU1: failed to come online
[ 1.080516] Brought up 1 CPUs
[ 1.080526] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080532] CPU: All CPU(s) started in HYP mode.
[ 1.080539] CPU: Virtualization extensions available.
[ 1.080570] CPU0: update max cpu_capacity 1024
[ 1.120894] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121931] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221694] omap_hwmod: cal: no dt node
[ 1.221704] -----[ cut here ]-----
[ 1.221718] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523

```

```

_init+0x2d4/0x440()
[ 1.221726] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221732] Modules linked in:
[ 1.221746] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221754] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221761] Backtrace:
[ 1.221777] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.221784] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221815] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221829] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221835] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221857] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221864] r3:c0e065f8 r2:c0e03fe0
[ 1.221875] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221896] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221902] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221923] r4:c1217c48
[ 1.221936] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221943] r5:c120bd68 r4:00000001
[ 1.221958] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221965] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221985] r4:00000001
[ 1.221999] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.222004] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.222024] r4:00000000
[ 1.222039] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.222045] r5:c0b46388 r4:00000000
[ 1.222071] ---[ end trace 5fcc5b6c0b9a48fe ]---
[ 1.310969] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310991] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.324246] pinctrl core: initialized pinctrl subsystem
[ 1.325265] NET: Registered protocol family 16
[ 1.326393] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.370943] cpuidle: using governor ladder
[ 1.430993] cpuidle: using governor menu
[ 1.439992] OMAP GPIO hardware version 0.1
[ 1.444179] GPIO line 161 (radio_rst) hogged as output/low
[ 1.446532] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.463854] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.463868] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.470651] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.470961] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.471238] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.475754] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.475764] hw-breakpoint: maximum watchpoint size is 8 bytes.

```

```
[ 1.476257] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.476268] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.476969] OMAP DMA hardware revision 0.0
[ 1.582052] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.583317] edma 43300000.edma: memcpy is disabled
[ 1.588105] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.592827] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.593024] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.593196] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.593374] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.593676] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.593869] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.595938] usbcore: registered new interface driver usbfs
[ 1.595999] usbcore: registered new interface driver hub
[ 1.596116] usbcore: registered new device driver usb
[ 1.597638] palmas 0-0058: IRQ missing: skipping irq request
[ 1.612093] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.621591] smps9: failed to apply 1800000uV constraint(-22)
[ 1.621704] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.622552] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.623288] pcf857x 0-0020: probed
[ 1.623898] pcf857x 0-0021: probed
[ 1.624047] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.642707] omap_i2c 48072000.i2c: controller timed out
[ 2.662734] pcf857x: probe of 1-0026 failed with error -110
[ 2.663296] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.663749] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.682955] pcf857x 3-0021: probed
[ 2.682982] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.683211] media: Linux media interface: v0.10
[ 2.683265] Linux video capture interface: v2.00
[ 2.683306] pps_core: LinuxPPS API ver. 1 registered
[ 2.683314] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.683340] PTP clock support registered
[ 2.683390] EDAC MC: Ver: 3.0.0
[ 2.693353] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.693653] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.694117] Advanced Linux Sound Architecture Driver Initialized.
[ 2.703306] clocksource: Switched to clocksource arch_sys_counter
[ 2.746850] NET: Registered protocol family 2
[ 2.747454] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.747519] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.747644] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.747697] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747729] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747881] NET: Registered protocol family 1
[ 2.748473] Trying to unpack rootfs image as initramfs...
[ 2.792625] Freeing initrd memory: 1092K
[ 2.793689] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.796395] audit: initializing netlink subsys (disabled)
[ 2.796454] audit: type=2000 audit(2.789:1): initialized
[ 2.813822] VFS: Disk quotas dquot_6.6.0
[ 2.813996] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.825117] squashfs: version 4.0 (2009/01/31) Phillip Lougher
```



```
[ 2.825373] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.825700] fuse init (API version 7.23)
[ 2.830677] bounce: pool size: 64 pages
[ 2.830836] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.830851] io scheduler noop registered
[ 2.830862] io scheduler deadline registered
[ 2.830895] io scheduler cfq registered (default)
[ 2.835748] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.839093] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.839133]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.839155]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.870697] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.870875] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.870889] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.870899] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.870909] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.871323] PCI: bus0: Fast back to back transfers disabled
[ 2.871447] PCI: bus1: Fast back to back transfers enabled
[ 2.871538] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.871554] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.871567] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.871791] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.876720] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.879168] console [ttyS0] disabled
[ 2.879229] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.126112] console [ttyS0] enabled
[ 4.130146] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.139493] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.149541] [drm] Initialized drm 1.1.0 20060810
[ 4.155821] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.332690] brd: module loaded
[ 4.421027] loop: module loaded
[ 4.435774] nand: No NAND device found
[ 4.439546] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.449669] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.455113] 7 ofpart partitions found on MTD device spi32766.0
[ 4.460972] Creating 7 MTD partitions on "spi32766.0":
[ 4.466153] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.482211] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.498521] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.515435] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.532057] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.549407] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.565738] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.583520] libphy: Fixed MDIO Bus: probed
[ 4.588195] tun: Universal TUN/TAP device driver, 1.6
[ 4.593267] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.599605] CAN device driver interface
[ 4.604587] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.663343] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.669470] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.690405] libphy: 48485000.mdio: probed
[ 4.694502] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.702805] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
```

TI DP83867

```
[ 4.711854] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.718558] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.725578] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.733213] PPP generic driver version 2.4.2
[ 4.737709] PPP BSD Compression module registered
[ 4.742437] PPP Deflate Compression module registered
[ 4.747566] PPP MPPE Compression module registered
[ 4.752382] NET: Registered protocol family 24
[ 4.759290] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.765913] ehci-pci: EHCI PCI platform driver
[ 4.770424] ehci-platform: EHCI generic platform driver
[ 4.776047] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.782279] ohci-pci: OHCI PCI platform driver
[ 4.786920] ohci-platform: OHCI generic platform driver
[ 4.793150] mousedev: PS/2 mouse device common for all mice
[ 4.798947] usbcore: registered new interface driver xpad
[ 4.804457] usbcore: registered new interface driver usb_acecad
[ 4.810445] usbcore: registered new interface driver aiptek
[ 4.816128] usbcore: registered new interface driver gtco
[ 4.821598] usbcore: registered new interface driver hanwang
[ 4.827345] usbcore: registered new interface driver kbtabs
[ 4.833462] i2c /dev entries driver
[ 4.838054] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.845187] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.851387] gspca_main: v2.14.0 registered
[ 4.859187] device-mapper: uevent: version 1.0.3
[ 4.863993] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.870105] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.878618] vip 48970000.vip: VPDMA firmware loaded
[ 4.894904] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.900557] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.907025] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.038340] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.044451] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.052684] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.060989] usbcore: registered new interface driver usbhid
[ 5.066639] usbhid: USB HID core driver
[ 5.070782] ashmem: initialized
[ 5.079368] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.085554] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.094516] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.100095] remoteproc0: 58820000.ipu is available
[ 5.105998] mmc0: new high speed SDIO card at address 0001
[ 5.112709] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.121844] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.132398] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.140795] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.148619] remoteproc0: Falling back to user helper
[ 5.153773] remoteproc1: 55020000.ipu is available
[ 5.158672] remoteproc1: Note: remoteproc is still under development and
considered experimental.
```

```
[ 5.167803] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.178357] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.186760] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.194604] remoteproc1: Falling back to user helper
[ 5.199808] remoteproc2: 40800000.dsp is available
[ 5.204751] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.214009] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.224893] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.232713] remoteproc3: 41000000.dsp is available
[ 5.237716] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.246804] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.257343] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.269262] remoteproc2: Falling back to user helper
[ 5.285400] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.294264] usbcore: registered new interface driver snd-usb-audio
[ 5.302161] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.307499] remoteproc3: Falling back to user helper
[ 5.313763] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.319217] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.327099] u32 classifier
[ 5.329819]     input device check on
[ 5.333575]     Actions configured
[ 5.337001] Netfilter messages via NETLINK v0.30.
[ 5.341781] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.348456] ctnetlink v0.93: registering with nfnetlink.
[ 5.355456] xt_time: kernel timezone is -0000
[ 5.360225] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.365801] arp_tables: (C) 2002 David S. Miller
[ 5.370584] Initializing XFRM netlink socket
[ 5.375553] NET: Registered protocol family 10
[ 5.391135] mip6: Mobile IPv6
[ 5.394191] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.399947] sit: IPv6 over IPv4 tunneling driver
[ 5.405176] NET: Registered protocol family 17
[ 5.409662] NET: Registered protocol family 15
[ 5.414156] can: controller area network core (rev 20120528 abi 9)
[ 5.420418] NET: Registered protocol family 29
[ 5.424962] can: raw protocol (rev 20120528)
[ 5.429256] can: broadcast manager protocol (rev 20120528 t)
[ 5.434970] can: netlink gateway (rev 20130117) max_hops=1
[ 5.440792] NET: Registered protocol family 41
[ 5.445616] omap_voltage_late_init: Voltage driver support not added
[ 5.452608] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.458848] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.465108] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.471707] Power Management for TI OMAP4+ devices.
[ 5.476869] Registering SWP/SWPB emulation handler
[ 5.482137] registered taskstats version 1
[ 5.487141] dmm 4e000000.dmm: workaround for errata i878 in use
```

```

[ 5.494725] dmm 4e000000.dmm: initialized all PAT entries
[ 5.512250] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.521227] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.527260] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.533715] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.541373] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.547639] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.553920] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.561462] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.569327] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.576878] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.582827] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.589365] hctosys: unable to open rtc device (rtc0)
[ 5.603391] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611312] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.623998] evm_1v8: disabling
[ 5.627074] evm_3v3_sw: disabling
[ 5.630402] aic_dvdd: disabling
[ 5.633641] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.639924] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.646441] vmmcwl_fixed: disabling
[ 5.649955] evm_3v3_sd: disabling
[ 5.653536] ALSA device list:
[ 5.656517]   No soundcards found.
[ 5.661421] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.668785] Freeing unused kernel memory: 2048K
[ 5.677299] init: init first stage started!
[ 5.681768] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.809746] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.824927] init: Wait for partitions returned after 10001ms
[ 15.830636] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.843252] init: Failed to mount required partitions early ...
[ 15.849259] init: panic: rebooting to bootloader
[ 15.855069] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.861848] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.869601] init: Shutdown timeout: 6000 ms
[ 15.873898] init: terminating init services
[ 15.878122] init: waitid failed: No child processes
[ 15.883041] init: Terminating running services took 27ms with remaining
services:0
[ 15.890715] init: waitid failed: No child processes
[ 15.895668] init: vold not running, skipping vold shutdown
[ 16.001693] init: powerctl_shutdown_time_ms:146:0
[ 16.006454] init: Reboot ending, jumping to kernel
[ 16.011627] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.017192] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.022733] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.028283] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.035643] reboot: Restarting system with command 'bootloader'

```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size 64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size 32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
```

```
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000326] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000334] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000749] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000762] pid_max: default: 32768 minimum: 301
[ 0.000837] Security Framework initialized
[ 0.000848] SELinux: Initializing.
[ 0.000922] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000932] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001506] Initializing cgroup subsys io
```

```

[ 0.001524] Initializing cgroup subsys memory
[ 0.001551] Initializing cgroup subsys devices
[ 0.001564] Initializing cgroup subsys freezer
[ 0.001575] Initializing cgroup subsys perf_event
[ 0.001587] Initializing cgroup subsys pids
[ 0.001626] CPU: Testing write buffer coherency: ok
[ 0.001874] /cpus/cpu@0 missing clock-frequency property
[ 0.001891] /cpus/cpu@1 missing clock-frequency property
[ 0.001900] CPU0: update cpu_capacity 1024
[ 0.001909] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001954] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080492] CPU1: failed to come online
[ 1.080523] Brought up 1 CPUs
[ 1.080533] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080539] CPU: All CPU(s) started in HYP mode.
[ 1.080545] CPU: Virtualization extensions available.
[ 1.080578] CPU0: update max cpu_capacity 1024
[ 1.120896] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121920] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221382] omap_hwmod: cal: no dt node
[ 1.221392] -----[ cut here ]-----
[ 1.221407] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221414] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221421] Modules linked in:
[ 1.221434] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221442] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221448] Backtrace:
[ 1.221465] [

```

```
[ 1.221722] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221728] r5:c0b46388 r4:00000000
[ 1.221753] ---[ end trace 43c144a3086f8092 ]---
[ 1.310190] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310212] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314239] pinctrl core: initialized pinctrl subsystem
[ 1.315254] NET: Registered protocol family 16
[ 1.316369] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360920] cpuidle: using governor ladder
[ 1.420971] cpuidle: using governor menu
[ 1.429935] OMAP GPIO hardware version 0.1
[ 1.434105] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436465] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453763] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453777] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460545] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460854] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461125] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465624] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465636] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466124] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466134] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466828] OMAP DMA hardware revision 0.0
[ 1.572040] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573312] edma 43300000.edma: memcpy is disabled
[ 1.578119] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582846] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583040] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583210] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583387] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583688] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583880] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585930] usbcore: registered new interface driver usbfs
[ 1.585990] usbcore: registered new interface driver hub
[ 1.586106] usbcore: registered new device driver usb
[ 1.587622] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602136] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611641] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611754] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612598] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613336] pcf857x 0-0020: probed
[ 1.613949] pcf857x 0-0021: probed
[ 1.614097] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632750] omap_i2c 48072000.i2c: controller timed out
[ 2.652777] pcf857x: probe of 1-0026 failed with error -110
[ 2.653339] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653792] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672994] pcf857x 3-0021: probed
[ 2.673022] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673250] media: Linux media interface: v0.10
[ 2.673304] Linux video capture interface: v2.00
[ 2.673346] pps_core: LinuxPPS API ver. 1 registered
[ 2.673354] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
```



```
<giometti@linux.it>
[ 2.673380] PTP clock support registered
[ 2.673430] EDAC MC: Ver: 3.0.0
[ 2.683395] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683694] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684157] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693346] clocksource: Switched to clocksource arch_sys_counter
[ 2.736871] NET: Registered protocol family 2
[ 2.737475] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737539] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737665] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737719] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737750] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737903] NET: Registered protocol family 1
[ 2.738495] Trying to unpack rootfs image as initramfs...
[ 2.782661] Freeing initrd memory: 1092K
[ 2.783720] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786431] audit: initializing netlink subsys (disabled)
[ 2.786489] audit: type=2000 audit(2.779:1): initialized
[ 2.803964] VFS: Disk quotas dquot_6.6.0
[ 2.804136] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815251] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815507] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815835] fuse init (API version 7.23)
[ 2.820793] bounce: pool size: 64 pages
[ 2.820953] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820967] io scheduler noop registered
[ 2.820978] io scheduler deadline registered
[ 2.821011] io scheduler cfq registered (default)
[ 2.825866] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829278] PCI host bridge /ocp/axi0/pcie_rc@51000000 ranges:
[ 2.829316]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829338]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860911] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.861093] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.861108] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.861118] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.861128] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861545] PCI: bus0: Fast back to back transfers disabled
[ 2.861669] PCI: bus1: Fast back to back transfers enabled
[ 2.861760] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861776] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861790] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.862018] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866953] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869418] console [ttyS0] disabled
[ 2.869481] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116374] console [ttyS0] enabled
[ 4.120412] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129762] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139815] [drm] Initialized drm 1.1.0 20060810
[ 4.146117] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322989] brd: module loaded
[ 4.411327] loop: module loaded
[ 4.426074] nand: No NAND device found
```

```
[ 4.429849] omap2-nand 8000000.nand: scan failed, may be bus-width mismatch
[ 4.439986] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445430] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451290] Creating 7 MTD partitions on "spi32766.0":
[ 4.456472] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472530] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488839] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505754] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522376] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539721] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.556052] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.573838] libphy: Fixed MDIO Bus: probed
[ 4.578505] tun: Universal TUN/TAP device driver, 1.6
[ 4.583625] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589918] CAN device driver interface
[ 4.594914] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653383] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659507] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680485] libphy: 48485000.mdio: probed
[ 4.684579] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692883] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701924] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708630] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715644] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723280] PPP generic driver version 2.4.2
[ 4.727777] PPP BSD Compression module registered
[ 4.732507] PPP Deflate Compression module registered
[ 4.737635] PPP MPPE Compression module registered
[ 4.742450] NET: Registered protocol family 24
[ 4.749356] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755981] ehci-pci: EHCI PCI platform driver
[ 4.760493] ehci-platform: EHCI generic platform driver
[ 4.766117] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772347] ohci-pci: OHCI PCI platform driver
[ 4.776996] ohci-platform: OHCI generic platform driver
[ 4.783220] mousedev: PS/2 mouse device common for all mice
[ 4.789021] usbcore: registered new interface driver xpad
[ 4.794531] usbcore: registered new interface driver usb_acecad
[ 4.800519] usbcore: registered new interface driver aiptek
[ 4.806203] usbcore: registered new interface driver gtco
[ 4.811671] usbcore: registered new interface driver hanwang
[ 4.817417] usbcore: registered new interface driver kftab
[ 4.823529] i2c /dev entries driver
[ 4.828115] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835250] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841442] gspca_main: v2.14.0 registered
[ 4.849255] device-mapper: uevent: version 1.0.3
[ 4.854061] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860175] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868688] vip 48970000.vip: VPDMA firmware loaded
[ 4.884973] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890633] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897099] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028298] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034375] omap_hsmmc 480d1000.mmc: card claims to support voltages below
```

defined range

```
[ 5.042607] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050956] usbcore: registered new interface driver usbhid
[ 5.056604] usbhid: USB HID core driver
[ 5.060745] ashmem: initialized
[ 5.069325] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076480] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082143] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090922] mmc0: new high speed SDIO card at address 0001
[ 5.096504] remoteproc0: 58820000.ipu is available
[ 5.101403] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111736] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122293] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130688] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138513] remoteproc0: Falling back to user helper
[ 5.143667] remoteproc1: 55020000.ipu is available
[ 5.148566] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157700] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168252] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176656] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184501] remoteproc1: Falling back to user helper
[ 5.189705] remoteproc2: 40800000.dsp is available
[ 5.194646] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203906] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214786] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222607] remoteproc3: 41000000.dsp is available
[ 5.227606] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236695] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247233] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259154] remoteproc2: Falling back to user helper
[ 5.275292] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284152] usbcore: registered new interface driver snd-usb-audio
[ 5.292041] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297378] remoteproc3: Falling back to user helper
[ 5.303614] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309071] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316948] u32 classifier
[ 5.319667]     input device check on
[ 5.323426]     Actions configured
[ 5.326853] Netfilter messages via NETLINK v0.30.
[ 5.331633] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338303] ctnetlink v0.93: registering with nfnetlink.
[ 5.345299] xt_time: kernel timezone is -0000
```

```
[ 5.350064] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355640] arp_tables: (C) 2002 David S. Miller
[ 5.360424] Initializing XFRM netlink socket
[ 5.365387] NET: Registered protocol family 10
[ 5.380961] mip6: Mobile IPv6
[ 5.384016] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389772] sit: IPv6 over IPv4 tunneling driver
[ 5.394996] NET: Registered protocol family 17
[ 5.399483] NET: Registered protocol family 15
[ 5.403976] can: controller area network core (rev 20120528 abi 9)
[ 5.410239] NET: Registered protocol family 29
[ 5.414780] can: raw protocol (rev 20120528)
[ 5.419075] can: broadcast manager protocol (rev 20120528 t)
[ 5.424790] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430607] NET: Registered protocol family 41
[ 5.435434] omap_voltage_late_init: Voltage driver support not added
[ 5.442417] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448654] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454913] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461513] Power Management for TI OMAP4+ devices.
[ 5.466677] Registering SWP/SWPB emulation handler
[ 5.471945] registered taskstats version 1
[ 5.476945] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484537] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502054] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511030] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517055] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523510] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531175] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537442] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543720] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551265] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559144] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566699] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572661] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579199] hctosys: unable to open rtc device (rtc0)
[ 5.593431] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601363] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613795] evm_1v8: disabling
[ 5.616872] evm_3v3_sw: disabling
[ 5.620200] aic_dvdd: disabling
[ 5.623438] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629718] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636232] vmmcwl_fixed: disabling
[ 5.639747] evm_3v3_sd: disabling
[ 5.643294] ALSA device list:
[ 5.647606] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.653504]   No soundcards found.
[ 5.659648] Freeing unused kernel memory: 2048K
[ 5.667107] init: init first stage started!
[ 5.671574] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799611] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814964] init: Wait for partitions returned after 10001ms
[ 15.820672] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833290] init: Failed to mount required partitions early ...
[ 15.839299] init: panic: rebooting to bootloader
[ 15.845107] init: Reboot start, reason: reboot, rebootTarget: bootloader
```

```
[ 15.851888] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859639] init: Shutdown timeout: 6000 ms
[ 15.863935] init: terminating init services
[ 15.868157] init: waitid failed: No child processes
[ 15.873076] init: Terminating running services took 27ms with remaining
services:0
[ 15.880753] init: waitid failed: No child processes
[ 15.885705] init: vold not running, skipping vold shutdown
[ 15.991725] init: powerctl_shutdown_time_ms:146:0
[ 15.996486] init: Reboot ending, jumping to kernel
[ 16.001657] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007221] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012763] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018313] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025676] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
```

```

[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000321] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000329] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000739] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000754] pid_max: default: 32768 minimum: 301
[ 0.000826] Security Framework initialized
[ 0.000838] SELinux: Initializing.
[ 0.000910] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000920] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001493] Initializing cgroup subsys io
[ 0.001512] Initializing cgroup subsys memory
[ 0.001539] Initializing cgroup subsys devices
[ 0.001552] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001575] Initializing cgroup subsys pids
[ 0.001615] CPU: Testing write buffer coherency: ok
[ 0.001862] /cpus/cpu@0 missing clock-frequency property
[ 0.001879] /cpus/cpu@1 missing clock-frequency property
[ 0.001888] CPU0: update cpu_capacity 1024
[ 0.001897] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001941] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080480] CPU1: failed to come online
[ 1.080510] Brought up 1 CPUs
[ 1.080518] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080525] CPU: All CPU(s) started in HYP mode.
[ 1.080531] CPU: Virtualization extensions available.
[ 1.080563] CPU0: update max cpu_capacity 1024
[ 1.120890] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121920] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221448] omap_hwmod: cal: no dt node
[ 1.221459] -----[ cut here ]-----
[ 1.221474] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221481] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221488] Modules linked in:
[ 1.221502] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221510] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221516] Backtrace:
[ 1.221533] [] (dump_backtrace) from [

```

```
[ 1.221591] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221612] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221618] r3:c0e065f8 r2:c0e03fe0
[ 1.221629] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221651] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221657] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221678] r4:c1217c48
[ 1.221692] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221698] r5:c120bd68 r4:00000001
[ 1.221716] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221722] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221742] r4:00000001
[ 1.221755] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221761] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221781] r4:00000000
[ 1.221796] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221802] r5:c0b46388 r4:00000000
[ 1.221827] ---[ end trace 2edb6fc13b30126b ]---
[ 1.310673] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310695] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.324233] pinctrl core: initialized pinctrl subsystem
[ 1.325253] NET: Registered protocol family 16
[ 1.326379] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.370922] cpuidle: using governor ladder
[ 1.430975] cpuidle: using governor menu
[ 1.439937] OMAP GPIO hardware version 0.1
[ 1.444111] GPIO line 161 (radio_rst) hogged as output/low
[ 1.446473] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.463764] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.463778] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.470546] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.470854] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.471127] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.475624] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.475634] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.476122] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.476132] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.476833] OMAP DMA hardware revision 0.0
[ 1.582006] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.583273] edma 43300000.edma: memcpy is disabled
[ 1.588084] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.592831] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.593026] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.593194] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.593370] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.593674] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.593865] omap-iommu 41502000.mmu: 41502000.mmu registered
```



```
[ 1.595914] usbcore: registered new interface driver usbfs
[ 1.595976] usbcore: registered new interface driver hub
[ 1.596091] usbcore: registered new device driver usb
[ 1.597606] palmas 0-0058: IRQ missing: skipping irq request
[ 1.612106] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.621623] smps9: failed to apply 1800000uV constraint(-22)
[ 1.621737] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.622545] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.623288] pcf857x 0-0020: probed
[ 1.623906] pcf857x 0-0021: probed
[ 1.624053] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.642695] omap_i2c 48072000.i2c: controller timed out
[ 2.662723] pcf857x: probe of 1-0026 failed with error -110
[ 2.663280] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.663737] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.682942] pcf857x 3-0021: probed
[ 2.682970] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.683200] media: Linux media interface: v0.10
[ 2.683254] Linux video capture interface: v2.00
[ 2.683297] pps_core: LinuxPPS API ver. 1 registered
[ 2.683304] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.683330] PTP clock support registered
[ 2.683380] EDAC MC: Ver: 3.0.0
[ 2.693344] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.693644] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.694108] Advanced Linux Sound Architecture Driver Initialized.
[ 2.703294] clocksource: Switched to clocksource arch_sys_counter
[ 2.746834] NET: Registered protocol family 2
[ 2.747436] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.747501] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.747626] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.747679] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747711] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747864] NET: Registered protocol family 1
[ 2.748447] Trying to unpack rootfs image as initramfs...
[ 2.792605] Freeing initrd memory: 1092K
[ 2.793672] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.796370] audit: initializing netlink subsys (disabled)
[ 2.796428] audit: type=2000 audit(2.789:1): initialized
[ 2.813824] VFS: Disk quotas dquot_6.6.0
[ 2.813996] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.825120] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.825375] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.825704] fuse init (API version 7.23)
[ 2.830671] bounce: pool size: 64 pages
[ 2.830833] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.830848] io scheduler noop registered
[ 2.830859] io scheduler deadline registered
[ 2.830891] io scheduler cfq registered (default)
[ 2.835747] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.839072] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.839111]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.839134]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.870638] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.870820] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
```

```
[ 2.870834] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.870845] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.870855] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.871270] PCI: bus0: Fast back to back transfers disabled
[ 2.871392] PCI: bus1: Fast back to back transfers enabled
[ 2.871483] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.871499] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.871512] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.871736] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.876657] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.879118] console [ttyS0] disabled
[ 2.879179] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.126052] console [ttyS0] enabled
[ 4.130089] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.139438] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.149490] [drm] Initialized drm 1.1.0 20060810
[ 4.155767] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.332659] brd: module loaded
[ 4.420984] loop: module loaded
[ 4.435729] nand: No NAND device found
[ 4.439502] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.449624] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.455069] 7 ofpart partitions found on MTD device spi32766.0
[ 4.460927] Creating 7 MTD partitions on "spi32766.0":
[ 4.466108] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.482164] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.498476] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.515388] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.532007] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.549353] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.565674] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.583468] libphy: Fixed MDIO Bus: probed
[ 4.588143] tun: Universal TUN/TAP device driver, 1.6
[ 4.593215] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.599550] CAN device driver interface
[ 4.604539] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.663332] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.669456] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.690320] libphy: 48485000.mdio: probed
[ 4.694416] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.702719] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.711771] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.718479] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.725499] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.733138] PPP generic driver version 2.4.2
[ 4.737635] PPP BSD Compression module registered
[ 4.742364] PPP Deflate Compression module registered
[ 4.747496] PPP MPPE Compression module registered
[ 4.752313] NET: Registered protocol family 24
[ 4.759220] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.765844] ehci-pci: EHCI PCI platform driver
[ 4.770358] ehci-platform: EHCI generic platform driver
[ 4.775980] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
```

```
[ 4.782212] ohci-pci: OHCI PCI platform driver
[ 4.786832] ohci-platform: OHCI generic platform driver
[ 4.793058] mousedev: PS/2 mouse device common for all mice
[ 4.798860] usbcore: registered new interface driver xpad
[ 4.804370] usbcore: registered new interface driver usb_acecad
[ 4.810357] usbcore: registered new interface driver aiptek
[ 4.816039] usbcore: registered new interface driver gtco
[ 4.821508] usbcore: registered new interface driver hanwang
[ 4.827254] usbcore: registered new interface driver kbtabs
[ 4.833362] i2c /dev entries driver
[ 4.837952] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.845079] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.851271] gspca_main: v2.14.0 registered
[ 4.859088] device-mapper: uevent: version 1.0.3
[ 4.863893] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.870005] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.878519] vip 48970000.vip: VPDMA firmware loaded
[ 4.894805] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.900465] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.906934] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.038329] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.044439] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.052673] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.060972] usbcore: registered new interface driver usbhid
[ 5.066620] usbhid: USB HID core driver
[ 5.070763] ashmem: initialized
[ 5.079367] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.085559] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.094514] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.100094] remoteproc0: 58820000.ipu is available
[ 5.105995] mmc0: new high speed SDIO card at address 0001
[ 5.112709] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.121845] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.132401] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.140797] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.148621] remoteproc0: Falling back to user helper
[ 5.153775] remoteproc1: 55020000.ipu is available
[ 5.158673] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.167805] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.178355] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.186753] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.194597] remoteproc1: Falling back to user helper
[ 5.199799] remoteproc2: 40800000.dsp is available
[ 5.204741] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.214002] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.224888] omap-rproc 41000000.dsp: assigned reserved memory node
```

```
dsp2_cma@9f000000
[ 5.232710] remoteproc3: 41000000.dsp is available
[ 5.237712] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.246801] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.257338] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.269265] remoteproc2: Falling back to user helper
[ 5.285410] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.294274] usbcore: registered new interface driver snd-usb-audio
[ 5.302172] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.307510] remoteproc3: Falling back to user helper
[ 5.313770] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.319226] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.327111] u32 classifier
[ 5.329830]     input device check on
[ 5.333588]     Actions configured
[ 5.337014] Netfilter messages via NETLINK v0.30.
[ 5.341794] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.348467] ctnetlink v0.93: registering with nfnetlink.
[ 5.355464] xt_time: kernel timezone is -0000
[ 5.360227] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.365801] arp_tables: (C) 2002 David S. Miller
[ 5.370584] Initializing XFRM netlink socket
[ 5.375553] NET: Registered protocol family 10
[ 5.391137] mip6: Mobile IPv6
[ 5.394191] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.399946] sit: IPv6 over IPv4 tunneling driver
[ 5.405175] NET: Registered protocol family 17
[ 5.409662] NET: Registered protocol family 15
[ 5.414154] can: controller area network core (rev 20120528 abi 9)
[ 5.420416] NET: Registered protocol family 29
[ 5.424959] can: raw protocol (rev 20120528)
[ 5.429255] can: broadcast manager protocol (rev 20120528 t)
[ 5.434972] can: netlink gateway (rev 20130117) max_hops=1
[ 5.440793] NET: Registered protocol family 41
[ 5.445623] omap_voltage_late_init: Voltage driver support not added
[ 5.452609] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.458848] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.465106] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.471706] Power Management for TI OMAP4+ devices.
[ 5.476868] Registering SWP/SWPB emulation handler
[ 5.482133] registered taskstats version 1
[ 5.487129] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.494708] dmm 4e000000.dmm: initialized all PAT entries
[ 5.512219] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.521198] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.527217] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.533673] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.541345] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.547611] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.553891] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.561433] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.569310] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.576861] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.582824] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.589362] hctosys: unable to open rtc device (rtc0)
```

```
[ 5.603381] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611301] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.623995] evm_1v8: disabling
[ 5.627071] evm_3v3_sw: disabling
[ 5.630400] aic_dvdd: disabling
[ 5.633638] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.639921] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.646436] vmmcwl_fixed: disabling
[ 5.649950] evm_3v3_sd: disabling
[ 5.653538] ALSA device list:
[ 5.656518]   No soundcards found.
[ 5.661432] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.668798] Freeing unused kernel memory: 2048K
[ 5.677312] init: init first stage started!
[ 5.681778] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.809920] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.824916] init: Wait for partitions returned after 10001ms
[ 15.830625] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.843244] init: Failed to mount required partitions early ...
[ 15.849252] init: panic: rebooting to bootloader
[ 15.855062] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.861843] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.869593] init: Shutdown timeout: 6000 ms
[ 15.873890] init: terminating init services
[ 15.878113] init: waitid failed: No child processes
[ 15.883033] init: Terminating running services took 27ms with remaining
services:0
[ 15.890708] init: waitid failed: No child processes
[ 15.895660] init: vold not running, skipping vold shutdown
[ 16.001684] init: powerctl_shutdown_time_ms:146:0
[ 16.006445] init: Reboot ending, jumping to kernel
[ 16.011616] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.017182] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.022724] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.028274] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.035625] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
```

Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...

Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
```

```
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap    : 0xbf000000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbf000000   (   14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000321] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000329] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000739] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000753] pid_max: default: 32768 minimum: 301
[ 0.000827] Security Framework initialized
[ 0.000839] SELinux: Initializing.
[ 0.000912] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000922] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001493] Initializing cgroup subsys io
[ 0.001511] Initializing cgroup subsys memory
[ 0.001537] Initializing cgroup subsys devices
[ 0.001550] Initializing cgroup subsys freezer
[ 0.001561] Initializing cgroup subsys perf_event
[ 0.001573] Initializing cgroup subsys pids
[ 0.001614] CPU: Testing write buffer coherency: ok
[ 0.001861] /cpus/cpu@0 missing clock-frequency property
[ 0.001878] /cpus/cpu@1 missing clock-frequency property
[ 0.001887] CPU0: update cpu_capacity 1024
[ 0.001895] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001941] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080491] CPU1: failed to come online
[ 1.080520] Brought up 1 CPUs
```

```

[ 1.080530] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080537] CPU: All CPU(s) started in HYP mode.
[ 1.080543] CPU: Virtualization extensions available.
[ 1.080575] CPU0: update max cpu_capacity 1024
[ 1.120899] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121924] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220991] omap_hwmod: cal: no dt node
[ 1.221002] -----[ cut here ]-----
[ 1.221017] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221024] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221030] Modules linked in:
[ 1.221044] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221053] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221060] Backtrace:
[ 1.221077] [

```



```
[ 1.434128] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436486] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453780] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453794] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460556] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460865] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461136] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465625] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465635] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466123] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466133] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466824] OMAP DMA hardware revision 0.0
[ 1.572064] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573336] edma 43300000.edma: memcpy is disabled
[ 1.578161] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582914] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583110] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583280] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583456] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583760] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583953] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586021] usbcore: registered new interface driver usbfs
[ 1.586082] usbcore: registered new interface driver hub
[ 1.586200] usbcore: registered new device driver usb
[ 1.587716] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602182] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611691] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611804] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612648] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613384] pcf857x 0-0020: probed
[ 1.613988] pcf857x 0-0021: probed
[ 1.614136] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632801] omap_i2c 48072000.i2c: controller timed out
[ 2.652830] pcf857x: probe of 1-0026 failed with error -110
[ 2.653394] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653850] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673048] pcf857x 3-0021: probed
[ 2.673076] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673308] media: Linux media interface: v0.10
[ 2.673362] Linux video capture interface: v2.00
[ 2.673405] pps_core: LinuxPPS API ver. 1 registered
[ 2.673413] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673439] PTP clock support registered
[ 2.673488] EDAC MC: Ver: 3.0.0
[ 2.683445] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683745] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684209] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693402] clocksource: Switched to clocksource arch_sys_counter
[ 2.736663] NET: Registered protocol family 2
[ 2.737265] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737330] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737456] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737510] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737541] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
```

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[ 2.737695] NET: Registered protocol family 1
[ 2.738286] Trying to unpack rootfs image as initramfs...
[ 2.782449] Freeing initrd memory: 1092K
[ 2.783386] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786220] audit: initializing netlink subsys (disabled)
[ 2.786277] audit: type=2000 audit(2.779:1): initialized
[ 2.803657] VFS: Disk quotas dquot_6.6.0
[ 2.803830] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814937] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815192] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815519] fuse init (API version 7.23)
[ 2.820502] bounce: pool size: 64 pages
[ 2.820664] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820677] io scheduler noop registered
[ 2.820689] io scheduler deadline registered
[ 2.820721] io scheduler cfq registered (default)
[ 2.825579] pinctrl-single 4a003400.pinctrl: 282 pins at pa fc003400 size 1128
[ 2.829004] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829043]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829065]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860631] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860812] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860826] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860837] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860846] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861263] PCI: bus0: Fast back to back transfers disabled
[ 2.861387] PCI: bus1: Fast back to back transfers enabled
[ 2.861478] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861494] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861507] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861732] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866665] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869139] console [ttyS0] disabled
[ 2.869202] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116052] console [ttyS0] enabled
[ 4.120093] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129444] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139496] [drm] Initialized drm 1.1.0 20060810
[ 4.145775] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322662] brd: module loaded
[ 4.411001] loop: module loaded
[ 4.425742] nand: No NAND device found
[ 4.429515] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439635] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445079] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450937] Creating 7 MTD partitions on "spi32766.0":
[ 4.456120] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472171] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488484] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505394] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522013] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539358] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555681] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573463] libphy: Fixed MDIO Bus: probed
[ 4.578136] tun: Universal TUN/TAP device driver, 1.6
```

```
[ 4.583209] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589545] CAN device driver interface
[ 4.594535] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653441] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659568] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680374] libphy: 48485000.mdio: probed
[ 4.684470] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692773] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701831] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708538] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715563] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723202] PPP generic driver version 2.4.2
[ 4.727698] PPP BSD Compression module registered
[ 4.732427] PPP Deflate Compression module registered
[ 4.737556] PPP MPPE Compression module registered
[ 4.742371] NET: Registered protocol family 24
[ 4.749278] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755903] ehci-pci: EHCI PCI platform driver
[ 4.760415] ehci-platform: EHCI generic platform driver
[ 4.766037] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772268] ohci-pci: OHCI PCI platform driver
[ 4.776888] ohci-platform: OHCI generic platform driver
[ 4.783117] mousedev: PS/2 mouse device common for all mice
[ 4.788920] usbcore: registered new interface driver xpad
[ 4.794433] usbcore: registered new interface driver usb_acecad
[ 4.800421] usbcore: registered new interface driver aiptek
[ 4.806104] usbcore: registered new interface driver gtco
[ 4.811573] usbcore: registered new interface driver hanwang
[ 4.817319] usbcore: registered new interface driver kbtabs
[ 4.823434] i2c /dev entries driver
[ 4.828026] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835155] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841344] gspca_main: v2.14.0 registered
[ 4.849132] device-mapper: uevent: version 1.0.3
[ 4.853936] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860049] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868564] vip 48970000.vip: VPDMA firmware loaded
[ 4.884846] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890501] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896970] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028349] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034424] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042656] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051021] usbcore: registered new interface driver usbhid
[ 5.056668] usbhid: USB HID core driver
[ 5.060810] ashmem: initialized
[ 5.069400] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076578] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082242] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091036] mmc0: new high speed SDIO card at address 0001
[ 5.096617] remoteproc0: 58820000.ipu is available
[ 5.101517] remoteproc0: Note: remoteproc is still under development and
considered experimental.
```

```
[ 5.111853] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122412] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130809] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138634] remoteproc0: Falling back to user helper
[ 5.143788] remoteproc1: 55020000.ipu is available
[ 5.148688] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157823] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168375] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176780] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184625] remoteproc1: Falling back to user helper
[ 5.189831] remoteproc2: 40800000.dsp is available
[ 5.194773] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204033] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214921] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222741] remoteproc3: 41000000.dsp is available
[ 5.227742] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236831] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247369] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259287] remoteproc2: Falling back to user helper
[ 5.283665] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.292513] usbcore: registered new interface driver snd-usb-audio
[ 5.300486] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.305796] remoteproc3: Falling back to user helper
[ 5.311991] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.317510] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.325399] u32 classifier
[ 5.328117]     input device check on
[ 5.331792]     Actions configured
[ 5.335292] Netfilter messages via NETLINK v0.30.
[ 5.340075] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.347869] ctnetlink v0.93: registering with nfnetlink.
[ 5.353764] xt_time: kernel timezone is -0000
[ 5.358526] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.364100] arp_tables: (C) 2002 David S. Miller
[ 5.368884] Initializing XFRM netlink socket
[ 5.373884] NET: Registered protocol family 10
[ 5.389463] mip6: Mobile IPv6
[ 5.392470] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.398277] sit: IPv6 over IPv4 tunneling driver
[ 5.403515] NET: Registered protocol family 17
[ 5.408002] NET: Registered protocol family 15
[ 5.412470] can: controller area network core (rev 20120528 abi 9)
[ 5.418755] NET: Registered protocol family 29
[ 5.423234] can: raw protocol (rev 20120528)
[ 5.427589] can: broadcast manager protocol (rev 20120528 t)
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[ 5.433287] can: netlink gateway (rev 20130117) max_hops=1
[ 5.439126] NET: Registered protocol family 41
[ 5.443957] omap_voltage_late_init: Voltage driver support not added
[ 5.450948] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.457186] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.463445] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.470045] Power Management for TI OMAP4+ devices.
[ 5.475209] Registering SWP/SWPB emulation handler
[ 5.480477] registered taskstats version 1
[ 5.485476] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.493026] dmm 4e000000.dmm: initialized all PAT entries
[ 5.510572] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.519551] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.525566] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.531953] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.539695] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.545964] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.552204] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.559792] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.567653] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.575201] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.581159] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.587695] hctosys: unable to open rtc device (rtc0)
[ 5.603490] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611443] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.622285] evm_1v8: disabling
[ 5.625443] evm_3v3_sw: disabling
[ 5.628774] aic_dvdd: disabling
[ 5.631927] vmmcwl_fixed: disabling
[ 5.635499] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.641770] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.648293] evm_3v3_sd: disabling
[ 5.651844] ALSA device list:
[ 5.656130] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.662983]   No soundcards found.
[ 5.668115] Freeing unused kernel memory: 2048K
[ 5.675587] init: init first stage started!
[ 5.680053] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.808413] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.823030] init: Wait for partitions returned after 10000ms
[ 15.828764] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.841376] init: Failed to mount required partitions early ...
[ 15.848498] init: panic: rebooting to bootloader
[ 15.853151] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.859975] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.867726] init: Shutdown timeout: 6000 ms
[ 15.871978] init: terminating init services
[ 15.876251] init: waitid failed: No child processes
[ 15.881170] init: Terminating running services took 28ms with remaining
services:0
[ 15.888843] init: waitid failed: No child processes
[ 15.893794] init: vold not running, skipping vold shutdown
[ 15.999815] init: powerctl_shutdown_time_ms:146:0
[ 16.004577] init: Reboot ending, jumping to kernel
[ 16.009752] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.015320] remoteproc2: failed to load dra7-dsp1-fw.xe66
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[ 16.020863] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.026412] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.033785] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000

Hit any key to stop autoboot: 0

MMC: no card present

MMC: no card present

MMC: no card present

switch to partitions #0, OK

mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
```

```
[ 0.000000] Initializing cgroup subsys cpuset
```

```
[ 0.000000] Initializing cgroup subsys cpu
```

```
[ 0.000000] Initializing cgroup subsys cpuacct
```

```
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
```

```
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
```

```
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
```

```
[ 0.000000] Machine model: TI DRA742
```

```
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
```

```

56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000317] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,

```

```

max_idle_ns: 58327039986419 ns
[ 0.000325] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000735] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000749] pid_max: default: 32768 minimum: 301
[ 0.000822] Security Framework initialized
[ 0.000833] SELinux: Initializing.
[ 0.000907] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000918] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001487] Initializing cgroup subsys io
[ 0.001505] Initializing cgroup subsys memory
[ 0.001531] Initializing cgroup subsys devices
[ 0.001544] Initializing cgroup subsys freezer
[ 0.001556] Initializing cgroup subsys perf_event
[ 0.001567] Initializing cgroup subsys pids
[ 0.001605] CPU: Testing write buffer coherency: ok
[ 0.001851] /cpus/cpu@0 missing clock-frequency property
[ 0.001867] /cpus/cpu@1 missing clock-frequency property
[ 0.001876] CPU0: update cpu_capacity 1024
[ 0.001884] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001931] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080478] CPU1: failed to come online
[ 1.080508] Brought up 1 CPUs
[ 1.080517] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080523] CPU: All CPU(s) started in HYP mode.
[ 1.080529] CPU: Virtualization extensions available.
[ 1.080562] CPU0: update max cpu_capacity 1024
[ 1.120896] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121922] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220873] omap_hwmod: cal: no dt node
[ 1.220884] -----[ cut here ]-----
[ 1.220898] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220905] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220912] Modules linked in:
[ 1.220927] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220935] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220941] Backtrace:
[ 1.220958] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.220965] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220994] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.221006] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221013] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221035] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.221041] r3:c0e065f8 r2:c0e03fe0
[ 1.221053] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221074] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221080] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221101] r4:c1217c48
[ 1.221115] [] (__omap_hwmod_setup_all) from []
(do_one_initcall+0xa8/0x204)
[ 1.221122] r5:c120bd68 r4:00000001

```



```
[ 1.221138] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221144] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221165] r4:00000001
[ 1.221179] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221185] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221204] r4:00000000
[ 1.221218] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221224] r5:c0b46388 r4:00000000
[ 1.221249] ---[ end trace 43f46d488383e5ba ]---
[ 1.309092] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309115] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314210] pinctrl core: initialized pinctrl subsystem
[ 1.315230] NET: Registered protocol family 16
[ 1.316354] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360912] cpuidle: using governor ladder
[ 1.420964] cpuidle: using governor menu
[ 1.429938] OMAP GPIO hardware version 0.1
[ 1.434099] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436444] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453761] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453775] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460535] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460844] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461116] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465619] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465630] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466115] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466124] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466821] OMAP DMA hardware revision 0.0
[ 1.572001] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573266] edma 43300000.edma: memcpy is disabled
[ 1.578088] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582834] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583029] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583197] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583371] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583673] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583865] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585922] usbcore: registered new interface driver usbfs
[ 1.585983] usbcore: registered new interface driver hub
[ 1.586102] usbcore: registered new device driver usb
[ 1.587603] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602105] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611544] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611658] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612503] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613243] pcf857x 0-0020: probed
[ 1.613853] pcf857x 0-0021: probed
[ 1.614000] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
```

```
[ 2.632714] omap_i2c 48072000.i2c: controller timed out
[ 2.652741] pcf857x: probe of 1-0026 failed with error -110
[ 2.653301] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653753] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672960] pcf857x 3-0021: probed
[ 2.672988] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673223] media: Linux media interface: v0.10
[ 2.673277] Linux video capture interface: v2.00
[ 2.673319] pps_core: LinuxPPS API ver. 1 registered
[ 2.673327] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673353] PTP clock support registered
[ 2.673403] EDAC MC: Ver: 3.0.0
[ 2.683362] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683662] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684128] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693312] clocksource: Switched to clocksource arch_sys_counter
[ 2.736470] NET: Registered protocol family 2
[ 2.737075] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737139] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737265] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737320] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737351] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737503] NET: Registered protocol family 1
[ 2.738093] Trying to unpack rootfs image as initramfs...
[ 2.782275] Freeing initrd memory: 1092K
[ 2.783208] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786042] audit: initializing netlink subsys (disabled)
[ 2.786100] audit: type=2000 audit(2.779:1): initialized
[ 2.803515] VFS: Disk quotas dquot_6.6.0
[ 2.803689] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814794] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815048] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815375] fuse init (API version 7.23)
[ 2.820348] bounce: pool size: 64 pages
[ 2.820506] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820520] io scheduler noop registered
[ 2.820532] io scheduler deadline registered
[ 2.820564] io scheduler cfq registered (default)
[ 2.825419] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828881] PCI host bridge /ocp/axi0/pcie_rc@51000000 ranges:
[ 2.828920]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828941]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860566] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860746] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860760] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860771] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860780] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.861196] PCI: bus0: Fast back to back transfers disabled
[ 2.861320] PCI: bus1: Fast back to back transfers enabled
[ 2.861410] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861427] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861439] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861663] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866579] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869044] console [ttyS0] disabled
[ 2.869107] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
```

```
[ 4.115960] console [ttyS0] enabled
[ 4.119993] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129342] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139394] [drm] Initialized drm 1.1.0 20060810
[ 4.145700] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322594] brd: module loaded
[ 4.410940] loop: module loaded
[ 4.425687] nand: No NAND device found
[ 4.429459] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439579] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445022] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450881] Creating 7 MTD partitions on "spi32766.0":
[ 4.456063] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472122] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488438] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505349] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.521968] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539314] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555643] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573430] libphy: Fixed MDIO Bus: probed
[ 4.578097] tun: Universal TUN/TAP device driver, 1.6
[ 4.583169] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589503] CAN device driver interface
[ 4.594494] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653351] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659478] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680398] libphy: 48485000.mdio: probed
[ 4.684493] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692797] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701845] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708551] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715569] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723204] PPP generic driver version 2.4.2
[ 4.727699] PPP BSD Compression module registered
[ 4.732429] PPP Deflate Compression module registered
[ 4.737558] PPP MPPE Compression module registered
[ 4.742374] NET: Registered protocol family 24
[ 4.749287] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755912] ehci-pci: EHCI PCI platform driver
[ 4.760427] ehci-platform: EHCI generic platform driver
[ 4.766049] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772281] ohci-pci: OHCI PCI platform driver
[ 4.776909] ohci-platform: OHCI generic platform driver
[ 4.783140] mousedev: PS/2 mouse device common for all mice
[ 4.788943] usbcore: registered new interface driver xpad
[ 4.794455] usbcore: registered new interface driver usb_acecad
[ 4.800442] usbcore: registered new interface driver aiptek
[ 4.806126] usbcore: registered new interface driver gtco
[ 4.811596] usbcore: registered new interface driver hanwang
[ 4.817342] usbcore: registered new interface driver kftab
[ 4.823455] i2c /dev entries driver
[ 4.828040] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835180] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841371] gspca_main: v2.14.0 registered
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[ 4.849167] device-mapper: uevent: version 1.0.3
[ 4.853972] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860083] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868596] vip 48970000.vip: VPDMA firmware loaded
[ 4.884882] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890536] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897003] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028361] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034437] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042670] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050988] usbcore: registered new interface driver usbhid
[ 5.056639] usbhid: USB HID core driver
[ 5.060782] ashmem: initialized
[ 5.069379] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075565] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084529] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.090108] remoteproc0: 58820000.ipu is available
[ 5.096007] mmc0: new high speed SDIO card at address 0001
[ 5.102725] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111860] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122417] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130813] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138637] remoteproc0: Falling back to user helper
[ 5.143790] remoteproc1: 55020000.ipu is available
[ 5.148689] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157820] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168371] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176775] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184619] remoteproc1: Falling back to user helper
[ 5.189823] remoteproc2: 40800000.dsp is available
[ 5.194766] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204025] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214906] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222724] remoteproc3: 41000000.dsp is available
[ 5.227724] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236812] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247350] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259274] remoteproc2: Falling back to user helper
[ 5.275408] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284270] usbcore: registered new interface driver snd-usb-audio
[ 5.292172] davinci-mcasp 48464000.mcasp: DAI is shared
```

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[ 5.297508] remoteproc3: Falling back to user helper
[ 5.303767] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309222] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317101] u32 classifier
[ 5.319820]     input device check on
[ 5.323576]     Actions configured
[ 5.327003] Netfilter messages via NETLINK v0.30.
[ 5.331783] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338452] ctnetlink v0.93: registering with nfnetlink.
[ 5.345447] xt_time: kernel timezone is -0000
[ 5.350211] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355786] arp_tables: (C) 2002 David S. Miller
[ 5.360570] Initializing XFRM netlink socket
[ 5.365538] NET: Registered protocol family 10
[ 5.381118] mip6: Mobile IPv6
[ 5.384174] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389929] sit: IPv6 over IPv4 tunneling driver
[ 5.395158] NET: Registered protocol family 17
[ 5.399645] NET: Registered protocol family 15
[ 5.404138] can: controller area network core (rev 20120528 abi 9)
[ 5.410400] NET: Registered protocol family 29
[ 5.414940] can: raw protocol (rev 20120528)
[ 5.419235] can: broadcast manager protocol (rev 20120528 t)
[ 5.424950] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430771] NET: Registered protocol family 41
[ 5.435598] omap_voltage_late_init: Voltage driver support not added
[ 5.442579] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448817] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455077] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461679] Power Management for TI OMAP4+ devices.
[ 5.466840] Registering SWP/SWPB emulation handler
[ 5.472107] registered taskstats version 1
[ 5.477107] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484694] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502216] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511207] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517217] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523673] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531337] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537603] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543882] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551423] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559281] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566833] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572787] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579327] hctosys: unable to open rtc device (rtc0)
[ 5.593395] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601319] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614062] evm_1v8: disabling
[ 5.617140] evm_3v3_sw: disabling
[ 5.620469] aic_dvdd: disabling
[ 5.623708] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629989] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636504] vmmcwl_fixed: disabling
[ 5.640019] evm_3v3_sd: disabling
[ 5.644264] ALSA device list:
[ 5.647245]   No soundcards found.
[ 5.651556] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658913] Freeing unused kernel memory: 2048K
```

```
[ 5.667427] init: init first stage started!
[ 5.671892] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799809] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814933] init: Wait for partitions returned after 10001ms
[ 15.820641] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833257] init: Failed to mount required partitions early ...
[ 15.839264] init: panic: rebooting to bootloader
[ 15.845074] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851854] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859607] init: Shutdown timeout: 6000 ms
[ 15.863904] init: terminating init services
[ 15.868126] init: waitid failed: No child processes
[ 15.873045] init: Terminating running services took 27ms with remaining
services:0
[ 15.880722] init: waitid failed: No child processes
[ 15.885674] init: vold not running, skipping vold shutdown
[ 15.991698] init: powerctl_shutdown_time_ms:146:0
[ 15.996461] init: Reboot ending, jumping to kernel
[ 16.001628] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007192] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012734] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018285] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025653] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
```

```

[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000316] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000324] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000733] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000748] pid_max: default: 32768 minimum: 301
[ 0.000823] Security Framework initialized
[ 0.000833] SELinux: Initializing.
[ 0.000907] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000917] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001490] Initializing cgroup subsys io
[ 0.001507] Initializing cgroup subsys memory
[ 0.001533] Initializing cgroup subsys devices
[ 0.001546] Initializing cgroup subsys freezer
[ 0.001558] Initializing cgroup subsys perf_event
[ 0.001569] Initializing cgroup subsys pids
[ 0.001609] CPU: Testing write buffer coherency: ok
[ 0.001859] /cpus/cpu@0 missing clock-frequency property
[ 0.001877] /cpus/cpu@1 missing clock-frequency property
[ 0.001886] CPU0: update cpu_capacity 1024
[ 0.001894] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001941] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080473] CPU1: failed to come online
[ 1.080503] Brought up 1 CPUs
[ 1.080511] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080518] CPU: All CPU(s) started in HYP mode.
[ 1.080525] CPU: Virtualization extensions available.
[ 1.080556] CPU0: update max cpu_capacity 1024
[ 1.120887] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121925] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220632] omap_hwmod: cal: no dt node
[ 1.220643] -----[ cut here ]-----
[ 1.220658] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220666] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220672] Modules linked in:

```



```
[ 1.220686] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220694] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220701] Backtrace:
[ 1.220718] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.220725] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220753] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.220766] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220772] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220795] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.220802] r3:c0e065f8 r2:c0e03fe0
[ 1.220812] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.220834] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.220840] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.220862] r4:c1217c48
[ 1.220875] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.220881] r5:c120bd68 r4:00000001
[ 1.220898] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.220904] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.220924] r4:00000001
[ 1.220937] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.220943] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.220962] r4:00000000
[ 1.220977] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.220983] r5:c0b46388 r4:00000000
[ 1.221025] ---[ end trace 3c98f9dfa72a2928 ]---
[ 1.309450] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309473] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314587] pinctrl core: initialized pinctrl subsystem
[ 1.315605] NET: Registered protocol family 16
[ 1.316719] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.361214] cpuidle: using governor ladder
[ 1.421264] cpuidle: using governor menu
[ 1.430231] OMAP GPIO hardware version 0.1
[ 1.434404] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436750] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.454037] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.454051] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460824] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.461134] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461406] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465897] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465909] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466399] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466410] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.467109] OMAP DMA hardware revision 0.0
```

```
[ 1.572290] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573553] edma 43300000.edma: memcpy is disabled
[ 1.578358] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.583071] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583265] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583433] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583611] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583911] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.584105] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586165] usbcore: registered new interface driver usbfs
[ 1.586226] usbcore: registered new interface driver hub
[ 1.586344] usbcore: registered new device driver usb
[ 1.587855] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602357] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611811] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611925] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612765] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613499] pcf857x 0-0020: probed
[ 1.614118] pcf857x 0-0021: probed
[ 1.614264] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632958] omap_i2c 48072000.i2c: controller timed out
[ 2.652986] pcf857x: probe of 1-0026 failed with error -110
[ 2.653548] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.654009] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673206] pcf857x 3-0021: probed
[ 2.673234] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673463] media: Linux media interface: v0.10
[ 2.673518] Linux video capture interface: v2.00
[ 2.673560] pps_core: LinuxPPS API ver. 1 registered
[ 2.673568] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673593] PTP clock support registered
[ 2.673643] EDAC MC: Ver: 3.0.0
[ 2.683606] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683904] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684369] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693550] clocksource: Switched to clocksource arch_sys_counter
[ 2.736407] NET: Registered protocol family 2
[ 2.737009] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737074] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737199] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737252] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737284] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737438] NET: Registered protocol family 1
[ 2.738030] Trying to unpack rootfs image as initramfs...
[ 2.782202] Freeing initrd memory: 1092K
[ 2.783133] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.785940] audit: initializing netlink subsys (disabled)
[ 2.786000] audit: type=2000 audit(2.779:1): initialized
[ 2.803374] VFS: Disk quotas dquot_6.6.0
[ 2.803609] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814722] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814978] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815307] fuse init (API version 7.23)
[ 2.820277] bounce: pool size: 64 pages
```

```
[ 2.820437] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820451] io scheduler noop registered
[ 2.820462] io scheduler deadline registered
[ 2.820494] io scheduler cfq registered (default)
[ 2.825365] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828737] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828775]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828797]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860304] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860484] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860498] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860509] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860519] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.860934] PCI: bus0: Fast back to back transfers disabled
[ 2.861058] PCI: bus1: Fast back to back transfers enabled
[ 2.861149] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861165] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861178] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861403] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866333] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868786] console [ttyS0] disabled
[ 2.868845] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115709] console [ttyS0] enabled
[ 4.119745] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129092] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139132] [drm] Initialized drm 1.1.0 20060810
[ 4.145416] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322287] brd: module loaded
[ 4.410625] loop: module loaded
[ 4.425358] nand: No NAND device found
[ 4.429132] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439249] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.444693] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450552] Creating 7 MTD partitions on "spi32766.0":
[ 4.455735] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.471794] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488102] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505015] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.521634] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.538982] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555313] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573076] libphy: Fixed MDIO Bus: probed
[ 4.577799] tun: Universal TUN/TAP device driver, 1.6
[ 4.582873] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589185] CAN device driver interface
[ 4.594186] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653590] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659715] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680638] libphy: 48485000.mdio: probed
[ 4.684736] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.693039] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.702090] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708798] cpsw 48484000.ethernet: cpts: overflow check period 800
```

```
[ 4.715818] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723452] PPP generic driver version 2.4.2
[ 4.727949] PPP BSD Compression module registered
[ 4.732677] PPP Deflate Compression module registered
[ 4.737808] PPP MPPE Compression module registered
[ 4.742624] NET: Registered protocol family 24
[ 4.749529] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.756153] ehci-pci: EHCI PCI platform driver
[ 4.760667] ehci-platform: EHCI generic platform driver
[ 4.766290] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772522] ohci-pci: OHCI PCI platform driver
[ 4.777152] ohci-platform: OHCI generic platform driver
[ 4.783378] mousedev: PS/2 mouse device common for all mice
[ 4.789182] usbcore: registered new interface driver xpad
[ 4.794692] usbcore: registered new interface driver usb_acecad
[ 4.800680] usbcore: registered new interface driver aiptek
[ 4.806362] usbcore: registered new interface driver gtco
[ 4.811831] usbcore: registered new interface driver hanwang
[ 4.817577] usbcore: registered new interface driver kbtabs
[ 4.823686] i2c /dev entries driver
[ 4.828267] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835394] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841594] gspca_main: v2.14.0 registered
[ 4.849387] device-mapper: uevent: version 1.0.3
[ 4.854193] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860302] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868815] vip 48970000.vip: VPDMA firmware loaded
[ 4.885091] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890743] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897210] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028498] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034574] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042809] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051128] usbcore: registered new interface driver usbhid
[ 5.056778] usbhid: USB HID core driver
[ 5.060923] ashmem: initialized
[ 5.069521] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075708] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084670] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.090248] remoteproc0: 58820000.ipu is available
[ 5.096145] mmc0: new high speed SDIO card at address 0001
[ 5.102859] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111992] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122547] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130940] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138767] remoteproc0: Falling back to user helper
[ 5.143921] remoteproc1: 55020000.ipu is available
[ 5.148819] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157953] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168505] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
```

```
error -2
[ 5.176910] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184753] remoteproc1: Falling back to user helper
[ 5.189955] remoteproc2: 40800000.dsp is available
[ 5.194898] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204157] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.215040] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222863] remoteproc3: 41000000.dsp is available
[ 5.227863] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236953] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247489] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259404] remoteproc2: Falling back to user helper
[ 5.275537] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284395] usbcore: registered new interface driver snd-usb-audio
[ 5.292291] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297627] remoteproc3: Falling back to user helper
[ 5.303865] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309319] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317197] u32 classifier
[ 5.319915]     input device check on
[ 5.323671]     Actions configured
[ 5.327097] Netfilter messages via NETLINK v0.30.
[ 5.331877] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338548] ctnetlink v0.93: registering with nfnetlink.
[ 5.345545] xt_time: kernel timezone is -0000
[ 5.350313] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355889] arp_tables: (C) 2002 David S. Miller
[ 5.360672] Initializing XFRM netlink socket
[ 5.365642] NET: Registered protocol family 10
[ 5.381224] mip6: Mobile IPv6
[ 5.384281] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.390036] sit: IPv6 over IPv4 tunneling driver
[ 5.395265] NET: Registered protocol family 17
[ 5.399751] NET: Registered protocol family 15
[ 5.404243] can: controller area network core (rev 20120528 abi 9)
[ 5.410507] NET: Registered protocol family 29
[ 5.415048] can: raw protocol (rev 20120528)
[ 5.419343] can: broadcast manager protocol (rev 20120528 t)
[ 5.425059] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430876] NET: Registered protocol family 41
[ 5.435707] omap_voltage_late_init: Voltage driver support not added
[ 5.442687] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448925] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455185] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461786] Power Management for TI OMAP4+ devices.
[ 5.466950] Registering SWP/SWPB emulation handler
[ 5.472213] registered taskstats version 1
[ 5.477214] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484802] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502316] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511289] omap_hsmmc 4809c000.mmc: Got CD GPIO
```

```
[ 5.517306] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523761] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531431] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537697] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543978] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551527] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559400] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566956] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572910] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579448] hctosys: unable to open rtc device (rtc0)
[ 5.593632] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601567] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614045] evm_1v8: disabling
[ 5.617122] evm_3v3_sw: disabling
[ 5.620449] aic_dvdd: disabling
[ 5.623688] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629966] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636480] vmmcwl_fixed: disabling
[ 5.639994] evm_3v3_sd: disabling
[ 5.643532] ALSA device list:
[ 5.647203]   No soundcards found.
[ 5.651497] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658849] Freeing unused kernel memory: 2048K
[ 5.667353] init: init first stage started!
[ 5.671821] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.800027] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815171] init: Wait for partitions returned after 10001ms
[ 15.820879] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833500] init: Failed to mount required partitions early ...
[ 15.839507] init: panic: rebooting to bootloader
[ 15.845318] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.852099] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859854] init: Shutdown timeout: 6000 ms
[ 15.864149] init: terminating init services
[ 15.868372] init: waitid failed: No child processes
[ 15.873291] init: Terminating running services took 27ms with remaining
services:0
[ 15.880965] init: waitid failed: No child processes
[ 15.885918] init: vold not running, skipping vold shutdown
[ 15.991942] init: powerctl_shutdown_time_ms:146:0
[ 15.996704] init: Reboot ending, jumping to kernel
[ 16.001874] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007438] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012980] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018531] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025891] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
```

```
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x0000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x0000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xffff0000 (3072 kB)
[ 0.000000] vmalloc : 0xf0800000 - 0xff800000 ( 240 MB)
[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000313] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000322] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000734] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000748] pid_max: default: 32768 minimum: 301
[ 0.000823] Security Framework initialized
[ 0.000834] SELinux: Initializing.
[ 0.000909] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000919] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001492] Initializing cgroup subsys io
[ 0.001509] Initializing cgroup subsys memory
[ 0.001536] Initializing cgroup subsys devices
[ 0.001549] Initializing cgroup subsys freezer
```



```

[ 0.001560] Initializing cgroup subsys perf_event
[ 0.001571] Initializing cgroup subsys pids
[ 0.001608] CPU: Testing write buffer coherency: ok
[ 0.001856] /cpus/cpu@0 missing clock-frequency property
[ 0.001873] /cpus/cpu@1 missing clock-frequency property
[ 0.001882] CPU0: update cpu_capacity 1024
[ 0.001891] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001938] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080484] CPU1: failed to come online
[ 1.080514] Brought up 1 CPUs
[ 1.080523] SMP: Total of 1 processors activated (12.29 Bogomips).
[ 1.080529] CPU: All CPU(s) started in HYP mode.
[ 1.080535] CPU: Virtualization extensions available.
[ 1.080567] CPU0: update max cpu_capacity 1024
[ 1.120892] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121925] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220927] omap_hwmod: cal: no dt node
[ 1.220937] -----[ cut here ]-----
[ 1.220953] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220960] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220966] Modules linked in:
[ 1.220981] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220989] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220996] Backtrace:
[ 1.221013] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.221020] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221051] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.221065] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221071] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221093] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.221100] r3:c0e065f8 r2:c0e03fe0
[ 1.221111] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221132] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221139] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221159] r4:c1217c48
[ 1.221173] [] (__omap_hwmod_setup_all) from []
(do_one_initcall+0xa8/0x204)
[ 1.221179] r5:c120bd68 r4:00000001
[ 1.221195] [] (do_one_initcall) from []
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221201] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221222] r4:00000001
[ 1.221235] [] (kernel_init_freeable) from []
(kernel_init+0x10/0x148)
[ 1.221240] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221260] r4:00000000
[ 1.221275] [] (kernel_init) from []
(ret_from_fork+0x14/0x34)
[ 1.221281] r5:c0b46388 r4:00000000

```

```
[ 1.221307] ---[ end trace 049ffe62394bae0f ]---
[ 1.309669] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309691] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314206] pinctrl core: initialized pinctrl subsystem
[ 1.315227] NET: Registered protocol family 16
[ 1.316366] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360916] cpuidle: using governor ladder
[ 1.420964] cpuidle: using governor menu
[ 1.429937] OMAP GPIO hardware version 0.1
[ 1.434107] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436468] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453778] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453792] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460588] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460895] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461172] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465675] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465686] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466172] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466182] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466879] OMAP DMA hardware revision 0.0
[ 1.572074] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573352] edma 43300000.edma: memcpy is disabled
[ 1.578186] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582924] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583118] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583287] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583464] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583772] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583965] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586024] usbcore: registered new interface driver usbfs
[ 1.586086] usbcore: registered new interface driver hub
[ 1.586203] usbcore: registered new device driver usb
[ 1.587724] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602201] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611669] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611781] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612632] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613364] pcf857x 0-0020: probed
[ 1.613974] pcf857x 0-0021: probed
[ 1.614122] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632809] omap_i2c 48072000.i2c: controller timed out
[ 2.652837] pcf857x: probe of 1-0026 failed with error -110
[ 2.653397] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653850] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673055] pcf857x 3-0021: probed
[ 2.673083] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673310] media: Linux media interface: v0.10
[ 2.673365] Linux video capture interface: v2.00
[ 2.673408] pps_core: LinuxPPS API ver. 1 registered
[ 2.673416] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673442] PTP clock support registered
[ 2.673493] EDAC MC: Ver: 3.0.0
```

```
[ 2.683455] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683754] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684221] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693407] clocksource: Switched to clocksource arch_sys_counter
[ 2.736766] NET: Registered protocol family 2
[ 2.737365] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737431] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737555] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737610] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737642] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737794] NET: Registered protocol family 1
[ 2.738386] Trying to unpack rootfs image as initramfs...
[ 2.782596] Freeing initrd memory: 1092K
[ 2.783660] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786370] audit: initializing netlink subsys (disabled)
[ 2.786427] audit: type=2000 audit(2.779:1): initialized
[ 2.803923] VFS: Disk quotas dquot_6.6.0
[ 2.804093] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815206] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815460] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815786] fuse init (API version 7.23)
[ 2.820756] bounce: pool size: 64 pages
[ 2.820914] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820928] io scheduler noop registered
[ 2.820940] io scheduler deadline registered
[ 2.820971] io scheduler cfq registered (default)
[ 2.825815] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829140] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829178]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829199]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860656] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860837] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860851] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860862] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860871] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861288] PCI: bus0: Fast back to back transfers disabled
[ 2.861411] PCI: bus1: Fast back to back transfers enabled
[ 2.861501] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861518] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861531] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861759] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866668] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869130] console [ttyS0] disabled
[ 2.869190] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116051] console [ttyS0] enabled
[ 4.120086] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129435] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139481] [drm] Initialized drm 1.1.0 20060810
[ 4.145761] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322652] brd: module loaded
[ 4.411003] loop: module loaded
[ 4.425744] nand: No NAND device found
[ 4.429518] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439642] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445088] 7 ofpart partitions found on MTD device spi32766.0
```

```
[ 4.450947] Creating 7 MTD partitions on "spi32766.0":
[ 4.456129] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472191] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488506] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505422] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522038] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539382] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.555709] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.573494] libphy: Fixed MDIO Bus: probed
[ 4.578170] tun: Universal TUN/TAP device driver, 1.6
[ 4.583242] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589579] CAN device driver interface
[ 4.594578] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653444] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659570] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680456] libphy: 48485000.mdio: probed
[ 4.684552] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692856] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701905] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708614] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715639] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723279] PPP generic driver version 2.4.2
[ 4.727780] PPP BSD Compression module registered
[ 4.732508] PPP Deflate Compression module registered
[ 4.737639] PPP MPPE Compression module registered
[ 4.742454] NET: Registered protocol family 24
[ 4.749366] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755991] ehci-pci: EHCI PCI platform driver
[ 4.760503] ehci-platform: EHCI generic platform driver
[ 4.766123] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772354] ohci-pci: OHCI PCI platform driver
[ 4.776971] ohci-platform: OHCI generic platform driver
[ 4.783196] mousedev: PS/2 mouse device common for all mice
[ 4.789001] usbcore: registered new interface driver xpad
[ 4.794511] usbcore: registered new interface driver usb_acecad
[ 4.800498] usbcore: registered new interface driver aiptek
[ 4.806181] usbcore: registered new interface driver gtco
[ 4.811651] usbcore: registered new interface driver hanwang
[ 4.817397] usbcore: registered new interface driver kbtabs
[ 4.823509] i2c /dev entries driver
[ 4.828095] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835234] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841432] gspca_main: v2.14.0 registered
[ 4.849232] device-mapper: uevent: version 1.0.3
[ 4.854033] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860148] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868662] vip 48970000.vip: VPDMA firmware loaded
[ 4.884950] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890605] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897073] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028353] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034430] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042666] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051045] usbcore: registered new interface driver usbhid
```

```
[ 5.056694] usbhid: USB HID core driver
[ 5.060839] ashmem: initialized
[ 5.069434] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076618] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082290] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091082] mmc0: new high speed SDIO card at address 0001
[ 5.096664] remoteproc0: 58820000.ipu is available
[ 5.101564] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111900] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122462] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130857] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138683] remoteproc0: Falling back to user helper
[ 5.143837] remoteproc1: 55020000.ipu is available
[ 5.148736] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157868] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168420] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176825] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184670] remoteproc1: Falling back to user helper
[ 5.189873] remoteproc2: 40800000.dsp is available
[ 5.194814] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204072] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214956] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222777] remoteproc3: 41000000.dsp is available
[ 5.227779] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236868] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247407] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259325] remoteproc2: Falling back to user helper
[ 5.275486] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284354] usbcore: registered new interface driver snd-usb-audio
[ 5.292250] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297589] remoteproc3: Falling back to user helper
[ 5.303838] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309292] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317173] u32 classifier
[ 5.319893]     input device check on
[ 5.323651]     Actions configured
[ 5.327077] Netfilter messages via NETLINK v0.30.
[ 5.331859] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338534] ctnetlink v0.93: registering with nfnetlink.
[ 5.345530] xt_time: kernel timezone is -0000
[ 5.350297] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355873] arp_tables: (C) 2002 David S. Miller
[ 5.360654] Initializing XFRM netlink socket
```

```
[ 5.365614] NET: Registered protocol family 10
[ 5.381188] mip6: Mobile IPv6
[ 5.384243] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.390001] sit: IPv6 over IPv4 tunneling driver
[ 5.395232] NET: Registered protocol family 17
[ 5.399719] NET: Registered protocol family 15
[ 5.404212] can: controller area network core (rev 20120528 abi 9)
[ 5.410477] NET: Registered protocol family 29
[ 5.415019] can: raw protocol (rev 20120528)
[ 5.419314] can: broadcast manager protocol (rev 20120528 t)
[ 5.425031] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430846] NET: Registered protocol family 41
[ 5.435670] omap_voltage_late_init: Voltage driver support not added
[ 5.442654] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448892] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455150] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461752] Power Management for TI OMAP4+ devices.
[ 5.466913] Registering SWP/SWPB emulation handler
[ 5.472174] registered taskstats version 1
[ 5.477175] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484759] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502280] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511248] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517263] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523719] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531397] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537665] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543945] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551488] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559366] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566917] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572886] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579423] hctosys: unable to open rtc device (rtc0)
[ 5.593488] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601425] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614047] evm_1v8: disabling
[ 5.617123] evm_3v3_sw: disabling
[ 5.620451] aic_dvdd: disabling
[ 5.623689] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629970] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636485] vmmcwl_fixed: disabling
[ 5.639999] evm_3v3_sd: disabling
[ 5.643586] ALSA device list:
[ 5.646566]   No soundcards found.
[ 5.651470] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658827] Freeing unused kernel memory: 2048K
[ 5.667339] init: init first stage started!
[ 5.671803] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799739] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815026] init: Wait for partitions returned after 1000ms
[ 15.820734] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833351] init: Failed to mount required partitions early ...
[ 15.839360] init: panic: rebooting to bootloader
[ 15.845169] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851952] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859704] init: Shutdown timeout: 6000 ms
```

```
[ 15.864001] init: terminating init services
[ 15.868225] init: waitid failed: No child processes
[ 15.873143] init: Terminating running services took 27ms with remaining
services:0
[ 15.880820] init: waitid failed: No child processes
[ 15.885772] init: vold not running, skipping vold shutdown
[ 15.991792] init: powerctl_shutdown_time_ms:146:0
[ 15.996554] init: Reboot ending, jumping to kernel
[ 16.001723] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007289] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012831] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018381] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025747] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
```

```
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xfff00000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
```



```

[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000318] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000327] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000739] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000753] pid_max: default: 32768 minimum: 301
[ 0.000829] Security Framework initialized
[ 0.000840] SELinux: Initializing.
[ 0.000914] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000925] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001497] Initializing cgroup subsys io
[ 0.001514] Initializing cgroup subsys memory
[ 0.001540] Initializing cgroup subsys devices
[ 0.001553] Initializing cgroup subsys freezer
[ 0.001564] Initializing cgroup subsys perf_event
[ 0.001576] Initializing cgroup subsys pids
[ 0.001615] CPU: Testing write buffer coherency: ok
[ 0.001863] /cpus/cpu@0 missing clock-frequency property
[ 0.001879] /cpus/cpu@1 missing clock-frequency property
[ 0.001889] CPU0: update cpu_capacity 1024
[ 0.001897] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080480] CPU1: failed to come online
[ 1.080512] Brought up 1 CPUs
[ 1.080521] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080527] CPU: All CPU(s) started in HYP mode.
[ 1.080533] CPU: Virtualization extensions available.
[ 1.080564] CPU0: update max cpu_capacity 1024
[ 1.110866] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111909] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210804] omap_hwmod: cal: no dt node
[ 1.210815] -----[ cut here ]-----
[ 1.210830] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.210837] omap_hwmod: cal: doesn't have mpu register target base
[ 1.210843] Modules linked in:
[ 1.210857] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.210865] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.210871] Backtrace:
[ 1.210888] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.210895] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.210925] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.210938] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.210944] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.210967] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)

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[ 1.210973] r3:c0e065f8 r2:c0e03fe0
[ 1.210984] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.211005] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.211012] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.211033] r4:c1217c48
[ 1.211046] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.211053] r5:c120bd68 r4:00000001
[ 1.211070] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.211076] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.211097] r4:00000001
[ 1.211111] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.211117] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211136] r4:00000000
[ 1.211150] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211156] r5:c0b46388 r4:00000000
[ 1.211182] ---[ end trace 16e2d6a5808ce7a8 ]---
[ 1.300033] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.300055] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304225] pinctrl core: initialized pinctrl subsystem
[ 1.305236] NET: Registered protocol family 16
[ 1.306357] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350895] cpuidle: using governor ladder
[ 1.410949] cpuidle: using governor menu
[ 1.419911] OMAP GPIO hardware version 0.1
[ 1.424103] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426461] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.443765] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443779] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450518] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450826] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451096] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455578] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455589] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456077] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456088] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456784] OMAP DMA hardware revision 0.0
[ 1.562069] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563338] edma 43300000.edma: memcpy is disabled
[ 1.568169] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572902] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573093] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573262] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573436] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573737] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573929] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575981] usbcore: registered new interface driver usbfs
[ 1.576042] usbcore: registered new interface driver hub
[ 1.576159] usbcore: registered new device driver usb

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[ 1.577679] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592166] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601650] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601762] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602612] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603344] pcf857x 0-0020: probed
[ 1.603957] pcf857x 0-0021: probed
[ 1.604105] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622775] omap_i2c 48072000.i2c: controller timed out
[ 2.642803] pcf857x: probe of 1-0026 failed with error -110
[ 2.643365] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643821] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.663022] pcf857x 3-0021: probed
[ 2.663049] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663278] media: Linux media interface: v0.10
[ 2.663331] Linux video capture interface: v2.00
[ 2.663373] pps_core: LinuxPPS API ver. 1 registered
[ 2.663381] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663406] PTP clock support registered
[ 2.663457] EDAC MC: Ver: 3.0.0
[ 2.673423] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673722] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674190] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683379] clocksource: Switched to clocksource arch_sys_counter
[ 2.726583] NET: Registered protocol family 2
[ 2.727183] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727248] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727373] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727428] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727460] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727614] NET: Registered protocol family 1
[ 2.728205] Trying to unpack rootfs image as initramfs...
[ 2.772369] Freeing initrd memory: 1092K
[ 2.773300] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776129] audit: initializing netlink subsys (disabled)
[ 2.776188] audit: type=2000 audit(2.769:1): initialized
[ 2.793585] VFS: Disk quotas dquot_6.6.0
[ 2.793759] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.804868] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805124] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805455] fuse init (API version 7.23)
[ 2.810442] bounce: pool size: 64 pages
[ 2.810601] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810616] io scheduler noop registered
[ 2.810628] io scheduler deadline registered
[ 2.810659] io scheduler cfq registered (default)
[ 2.815521] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.818887] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.818924]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.818946]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.850650] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850829] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850843] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850854] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850863] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
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[ 2.851281] PCI: bus0: Fast back to back transfers disabled
[ 2.851405] PCI: bus1: Fast back to back transfers enabled
[ 2.851495] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851511] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851525] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851751] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856686] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859141] console [ttyS0] disabled
[ 2.859203] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106074] console [ttyS0] enabled
[ 4.110110] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119453] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129495] [drm] Initialized drm 1.1.0 20060810
[ 4.135782] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312680] brd: module loaded
[ 4.401027] loop: module loaded
[ 4.415761] nand: No NAND device found
[ 4.419535] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429656] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435102] 7 ofpart partitions found on MTD device spi32766.0
[ 4.440960] Creating 7 MTD partitions on "spi32766.0":
[ 4.446142] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.462198] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.478505] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.495419] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.512039] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.529384] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.545713] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.563498] libphy: Fixed MDIO Bus: probed
[ 4.568175] tun: Universal TUN/TAP device driver, 1.6
[ 4.573247] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579583] CAN device driver interface
[ 4.584576] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643415] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649541] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670419] libphy: 48485000.mdio: probed
[ 4.674514] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682818] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691875] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698584] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705605] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713246] PPP generic driver version 2.4.2
[ 4.717744] PPP BSD Compression module registered
[ 4.722472] PPP Deflate Compression module registered
[ 4.727602] PPP MPPE Compression module registered
[ 4.732418] NET: Registered protocol family 24
[ 4.739332] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745955] ehci-pci: EHCI PCI platform driver
[ 4.750467] ehci-platform: EHCI generic platform driver
[ 4.756091] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762322] ohci-pci: OHCI PCI platform driver
[ 4.766933] ohci-platform: OHCI generic platform driver
[ 4.773164] mousedev: PS/2 mouse device common for all mice
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[ 4.778963] usbcore: registered new interface driver xpad
[ 4.784474] usbcore: registered new interface driver usb_acecad
[ 4.790462] usbcore: registered new interface driver aiptek
[ 4.796144] usbcore: registered new interface driver gtco
[ 4.801613] usbcore: registered new interface driver hanwang
[ 4.807360] usbcore: registered new interface driver kbtabs
[ 4.813475] i2c /dev entries driver
[ 4.818053] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825186] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831374] gspca_main: v2.14.0 registered
[ 4.839194] device-mapper: uevent: version 1.0.3
[ 4.843999] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.850115] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858630] vip 48970000.vip: VPDMA firmware loaded
[ 4.874917] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880563] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.887031] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018423] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024499] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032733] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.041037] usbcore: registered new interface driver usbhid
[ 5.046721] usbhid: USB HID core driver
[ 5.050868] ashmem: initialized
[ 5.059465] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.065657] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074609] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.080188] remoteproc0: 58820000.ipu is available
[ 5.086083] mmc0: new high speed SDIO card at address 0001
[ 5.092798] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101932] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112487] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120882] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128706] remoteproc0: Falling back to user helper
[ 5.133860] remoteproc1: 55020000.ipu is available
[ 5.138759] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147890] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158440] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166843] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174689] remoteproc1: Falling back to user helper
[ 5.179892] remoteproc2: 40800000.dsp is available
[ 5.184833] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.194092] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204975] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212794] remoteproc3: 41000000.dsp is available
[ 5.217795] remoteproc3: Note: remoteproc is still under development and
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considered experimental.

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[ 5.226884] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237422] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249344] remoteproc2: Falling back to user helper
[ 5.265481] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.274344] usbcore: registered new interface driver snd-usb-audio
[ 5.282231] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287568] remoteproc3: Falling back to user helper
[ 5.293817] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299272] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.307146] u32 classifier
[ 5.309866]     input device check on
[ 5.313621]     Actions configured
[ 5.317047] Netfilter messages via NETLINK v0.30.
[ 5.321826] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328496] ctnetlink v0.93: registering with nfnetlink.
[ 5.335488] xt_time: kernel timezone is -0000
[ 5.340258] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345835] arp_tables: (C) 2002 David S. Miller
[ 5.350617] Initializing XFRM netlink socket
[ 5.355581] NET: Registered protocol family 10
[ 5.371152] mip6: Mobile IPv6
[ 5.374210] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.379965] sit: IPv6 over IPv4 tunneling driver
[ 5.385185] NET: Registered protocol family 17
[ 5.389672] NET: Registered protocol family 15
[ 5.394165] can: controller area network core (rev 20120528 abi 9)
[ 5.400427] NET: Registered protocol family 29
[ 5.404970] can: raw protocol (rev 20120528)
[ 5.409264] can: broadcast manager protocol (rev 20120528 t)
[ 5.414979] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420800] NET: Registered protocol family 41
[ 5.425628] omap_voltage_late_init: Voltage driver support not added
[ 5.432615] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438856] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.445117] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.451719] Power Management for TI OMAP4+ devices.
[ 5.456879] Registering SWP/SWPB emulation handler
[ 5.462142] registered taskstats version 1
[ 5.467145] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474728] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492246] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501216] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507235] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513690] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521355] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527624] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533902] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541449] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.549314] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556868] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562824] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569362] hctosys: unable to open rtc device (rtc0)
[ 5.583459] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591394] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.603974] evm_1v8: disabling
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[ 5.607049] evm_3v3_sw: disabling
[ 5.610378] aic_dvdd: disabling
[ 5.613615] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619896] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.626413] vmmcw1_fixed: disabling
[ 5.629926] evm_3v3_sd: disabling
[ 5.633518] ALSA device list:
[ 5.636499]   No soundcards found.
[ 5.641412] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648778] Freeing unused kernel memory: 2048K
[ 5.657297] init: init first stage started!
[ 5.661762] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.789821] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.804998] init: Wait for partitions returned after 10001ms
[ 15.810706] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823324] init: Failed to mount required partitions early ...
[ 15.829334] init: panic: rebooting to bootloader
[ 15.835144] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841924] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849675] init: Shutdown timeout: 6000 ms
[ 15.853975] init: terminating init services
[ 15.858197] init: waitid failed: No child processes
[ 15.863117] init: Terminating running services took 27ms with remaining
services:0
[ 15.870792] init: waitid failed: No child processes
[ 15.875745] init: vold not running, skipping vold shutdown
[ 15.981767] init: powerctl_shutdown_time_ms:146:0
[ 15.986529] init: Reboot ending, jumping to kernel
[ 15.991700] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997264] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002807] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008356] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015718] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000

Hit any key to stop autoboot: 0

MMC: no card present

MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
```



```
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap    : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000315] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000323] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000732] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000747] pid_max: default: 32768 minimum: 301
[ 0.000821] Security Framework initialized
[ 0.000832] SELinux: Initializing.
[ 0.000905] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000915] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001483] Initializing cgroup subsys io
[ 0.001502] Initializing cgroup subsys memory
[ 0.001528] Initializing cgroup subsys devices
[ 0.001541] Initializing cgroup subsys freezer
[ 0.001552] Initializing cgroup subsys perf_event
[ 0.001563] Initializing cgroup subsys pids
[ 0.001603] CPU: Testing write buffer coherency: ok
[ 0.001853] /cpus/cpu@0 missing clock-frequency property
[ 0.001870] /cpus/cpu@1 missing clock-frequency property
[ 0.001879] CPU0: update cpu_capacity 1024
[ 0.001887] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001933] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080483] CPU1: failed to come online
[ 1.080513] Brought up 1 CPUs
[ 1.080523] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080529] CPU: All CPU(s) started in HYP mode.
[ 1.080535] CPU: Virtualization extensions available.
```

```

[ 1.080567] CPU0: update max cpu_capacity 1024
[ 1.120893] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121912] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220728] omap_hwmod: cal: no dt node
[ 1.220739] -----[ cut here ]-----
[ 1.220754] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220761] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220767] Modules linked in:
[ 1.220781] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220789] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220796] Backtrace:
[ 1.220812] [] (dump_backtrace) from [

```

```
[ 1.453806] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460573] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460883] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461161] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465692] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465702] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466187] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466197] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466894] OMAP DMA hardware revision 0.0
[ 1.572042] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573308] edma 43300000.edma: memcpy is disabled
[ 1.578125] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582848] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583039] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583209] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583384] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583685] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583878] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585924] usbcore: registered new interface driver usbfs
[ 1.585984] usbcore: registered new interface driver hub
[ 1.586100] usbcore: registered new device driver usb
[ 1.587622] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602117] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611603] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611715] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612565] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613296] pcf857x 0-0020: probed
[ 1.613915] pcf857x 0-0021: probed
[ 1.614063] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632729] omap_i2c 48072000.i2c: controller timed out
[ 2.652757] pcf857x: probe of 1-0026 failed with error -110
[ 2.653321] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653771] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672975] pcf857x 3-0021: probed
[ 2.673002] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673231] media: Linux media interface: v0.10
[ 2.673284] Linux video capture interface: v2.00
[ 2.673328] pps_core: LinuxPPS API ver. 1 registered
[ 2.673335] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673360] PTP clock support registered
[ 2.673412] EDAC MC: Ver: 3.0.0
[ 2.683376] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683677] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684144] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693323] clocksource: Switched to clocksource arch_sys_counter
[ 2.736270] NET: Registered protocol family 2
[ 2.736871] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.736936] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737061] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737117] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737148] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737303] NET: Registered protocol family 1
[ 2.737891] Trying to unpack rootfs image as initramfs...
[ 2.782077] Freeing initrd memory: 1092K
```

```
[ 2.783011] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.785861] audit: initializing netlink subsys (disabled)
[ 2.785919] audit: type=2000 audit(2.779:1): initialized
[ 2.803283] VFS: Disk quotas dquot_6.6.0
[ 2.803521] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814627] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814883] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815212] fuse init (API version 7.23)
[ 2.820172] bounce: pool size: 64 pages
[ 2.820332] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820347] io scheduler noop registered
[ 2.820358] io scheduler deadline registered
[ 2.820390] io scheduler cfq registered (default)
[ 2.825235] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828696] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828734]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828756]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860391] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860569] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860583] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860593] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860603] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861016] PCI: bus0: Fast back to back transfers disabled
[ 2.861139] PCI: bus1: Fast back to back transfers enabled
[ 2.861229] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861246] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861258] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861483] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866408] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868876] console [ttyS0] disabled
[ 2.868937] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115852] console [ttyS0] enabled
[ 4.119894] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129241] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139287] [drm] Initialized drm 1.1.0 20060810
[ 4.145567] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322451] brd: module loaded
[ 4.410780] loop: module loaded
[ 4.425524] nand: No NAND device found
[ 4.429299] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439437] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444882] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450740] Creating 7 MTD partitions on "spi32766.0":
[ 4.455922] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.471975] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488285] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505202] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521820] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539174] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555502] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573260] libphy: Fixed MDIO Bus: probed
[ 4.577987] tun: Universal TUN/TAP device driver, 1.6
[ 4.583060] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589372] CAN device driver interface
[ 4.594358] c_can_platform 4ae3c000.can: c_can_platform device registered
```

```
(regs=fce3c000, irq=365)
[ 4.653364] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659491] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680056] libphy: 48485000.mdio: probed
[ 4.684152] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692455] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701503] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708212] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715231] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.722871] PPP generic driver version 2.4.2
[ 4.727371] PPP BSD Compression module registered
[ 4.732100] PPP Deflate Compression module registered
[ 4.737229] PPP MPPE Compression module registered
[ 4.742046] NET: Registered protocol family 24
[ 4.748960] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755583] ehci-pci: EHCI PCI platform driver
[ 4.760095] ehci-platform: EHCI generic platform driver
[ 4.765715] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.771948] ohci-pci: OHCI PCI platform driver
[ 4.776571] ohci-platform: OHCI generic platform driver
[ 4.782802] mousedev: PS/2 mouse device common for all mice
[ 4.788605] usbcore: registered new interface driver xpad
[ 4.794114] usbcore: registered new interface driver usb_acecad
[ 4.800101] usbcore: registered new interface driver aiptek
[ 4.805782] usbcore: registered new interface driver gtco
[ 4.811249] usbcore: registered new interface driver hanwang
[ 4.816993] usbcore: registered new interface driver kbtap
[ 4.823082] i2c /dev entries driver
[ 4.827691] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834831] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841023] gspca_main: v2.14.0 registered
[ 4.848802] device-mapper: uevent: version 1.0.3
[ 4.853604] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859716] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868229] vip 48970000.vip: VPDMA firmware loaded
[ 4.884657] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890312] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896780] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028267] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034343] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042576] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050901] usbcore: registered new interface driver usbhid
[ 5.056552] usbhid: USB HID core driver
[ 5.060696] ashmem: initialized
[ 5.069288] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075473] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084436] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.090014] remoteproc0: 58820000.ipu is available
[ 5.095893] mmc0: new high speed SDIO card at address 0001
[ 5.102609] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111745] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122301] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
```

```
error -2
[ 5.130694] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138519] remoteproc0: Falling back to user helper
[ 5.143673] remoteproc1: 55020000.ipu is available
[ 5.148572] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157706] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168259] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176663] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184507] remoteproc1: Falling back to user helper
[ 5.189711] remoteproc2: 40800000.dsp is available
[ 5.194654] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203914] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214795] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222616] remoteproc3: 41000000.dsp is available
[ 5.227613] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236701] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247239] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259157] remoteproc2: Falling back to user helper
[ 5.275295] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284162] usbcore: registered new interface driver snd-usb-audio
[ 5.292057] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297395] remoteproc3: Falling back to user helper
[ 5.303639] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309093] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316974] u32 classifier
[ 5.319693]     input device check on
[ 5.323451]     Actions configured
[ 5.326878] Netfilter messages via NETLINK v0.30.
[ 5.331658] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338328] ctnetlink v0.93: registering with nfnetlink.
[ 5.345332] xt_time: kernel timezone is -0000
[ 5.350095] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355672] arp_tables: (C) 2002 David S. Miller
[ 5.360456] Initializing XFRM netlink socket
[ 5.365429] NET: Registered protocol family 10
[ 5.381008] mip6: Mobile IPv6
[ 5.384064] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389824] sit: IPv6 over IPv4 tunneling driver
[ 5.395054] NET: Registered protocol family 17
[ 5.399541] NET: Registered protocol family 15
[ 5.404034] can: controller area network core (rev 20120528 abi 9)
[ 5.410297] NET: Registered protocol family 29
[ 5.414839] can: raw protocol (rev 20120528)
[ 5.419135] can: broadcast manager protocol (rev 20120528 t)
[ 5.424849] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430673] NET: Registered protocol family 41
[ 5.435498] omap_voltage_late_init: Voltage driver support not added
```

```
[ 5.442481] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448721] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454980] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461582] Power Management for TI OMAP4+ devices.
[ 5.466747] Registering SWP/SWPB emulation handler
[ 5.472010] registered taskstats version 1
[ 5.477014] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484596] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502108] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511077] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517097] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523553] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531219] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537487] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543768] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551315] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559185] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566743] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572701] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579239] hctosys: unable to open rtc device (rtc0)
[ 5.593405] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601334] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613962] evm_1v8: disabling
[ 5.617038] evm_3v3_sw: disabling
[ 5.620367] aic_dvdd: disabling
[ 5.623606] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629891] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636406] vmmcwl_fixed: disabling
[ 5.639920] evm_3v3_sd: disabling
[ 5.644158] ALSA device list:
[ 5.647141]   No soundcards found.
[ 5.651452] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658814] Freeing unused kernel memory: 2048K
[ 5.667334] init: init first stage started!
[ 5.671800] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799668] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814942] init: Wait for partitions returned after 10001ms
[ 15.820650] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833270] init: Failed to mount required partitions early ...
[ 15.839278] init: panic: rebooting to bootloader
[ 15.845089] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851869] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859622] init: Shutdown timeout: 6000 ms
[ 15.863920] init: terminating init services
[ 15.868144] init: waitid failed: No child processes
[ 15.873062] init: Terminating running services took 27ms with remaining
services:0
[ 15.880740] init: waitid failed: No child processes
[ 15.885692] init: vold not running, skipping vold shutdown
[ 15.991713] init: powerctl_shutdown_time_ms:146:0
[ 15.996476] init: Reboot ending, jumping to kernel
[ 16.001643] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007207] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012749] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018299] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025654] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
```



```
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000328] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000336] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000748] Calibrating delay loop (skipped), value calculated using timer
```

```

frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000763] pid_max: default: 32768 minimum: 301
[ 0.000836] Security Framework initialized
[ 0.000848] SELinux: Initializing.
[ 0.000921] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000931] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001503] Initializing cgroup subsys io
[ 0.001522] Initializing cgroup subsys memory
[ 0.001547] Initializing cgroup subsys devices
[ 0.001560] Initializing cgroup subsys freezer
[ 0.001572] Initializing cgroup subsys perf_event
[ 0.001584] Initializing cgroup subsys pids
[ 0.001623] CPU: Testing write buffer coherency: ok
[ 0.001869] /cpus/cpu@0 missing clock-frequency property
[ 0.001886] /cpus/cpu@1 missing clock-frequency property
[ 0.001895] CPU0: update cpu_capacity 1024
[ 0.001904] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001950] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080479] CPU1: failed to come online
[ 1.080509] Brought up 1 CPUs
[ 1.080518] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080526] CPU: All CPU(s) started in HYP mode.
[ 1.080532] CPU: Virtualization extensions available.
[ 1.080563] CPU0: update max cpu_capacity 1024
[ 1.120886] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121906] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221719] omap_hwmod: cal: no dt node
[ 1.221730] -----[ cut here ]-----
[ 1.221744] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221751] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221758] Modules linked in:
[ 1.221772] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221780] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221786] Backtrace:
[ 1.221803] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.221810] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221838] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.221851] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221858] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221880] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.221886] r3:c0e065f8 r2:c0e03fe0
[ 1.221897] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221919] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221925] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221947] r4:c1217c48
[ 1.221960] [] (__omap_hwmod_setup_all) from []
(do_one_initcall+0xa8/0x204)
[ 1.221966] r5:c120bd68 r4:00000001
[ 1.221982] [] (do_one_initcall) from []
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221989] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000

```

```

r5:c1083db4
[ 1.222009] r4:00000001
[ 1.222022] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.222028] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.222048] r4:00000000
[ 1.222063] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.222068] r5:c0b46388 r4:00000000
[ 1.222094] ---[ end trace ac2052249525177f ]---
[ 1.310552] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310574] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.324257] pinctrl core: initialized pinctrl subsystem
[ 1.325273] NET: Registered protocol family 16
[ 1.326394] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.370923] cpuidle: using governor ladder
[ 1.430975] cpuidle: using governor menu
[ 1.439937] OMAP GPIO hardware version 0.1
[ 1.444105] GPIO line 161 (radio_rst) hogged as output/low
[ 1.446459] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.463748] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.463762] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.470525] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.470834] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.471107] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.475607] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.475618] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.476102] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.476113] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.476808] OMAP DMA hardware revision 0.0
[ 1.581978] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.583258] edma 43300000.edma: memcpy is disabled
[ 1.588088] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.592814] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.593008] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.593178] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.593353] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.593658] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.593849] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.595908] usbcore: registered new interface driver usbfs
[ 1.595969] usbcore: registered new interface driver hub
[ 1.596084] usbcore: registered new device driver usb
[ 1.597588] palmas 0-0058: IRQ missing: skipping irq request
[ 1.612087] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.621551] smps9: failed to apply 1800000uV constraint(-22)
[ 1.621662] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.622510] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.623240] pcf857x 0-0020: probed
[ 1.623854] pcf857x 0-0021: probed
[ 1.624000] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.642709] omap_i2c 48072000.i2c: controller timed out
[ 2.662737] pcf857x: probe of 1-0026 failed with error -110
[ 2.663299] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz

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[ 2.663753] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.682960] pcf857x 3-0021: probed
[ 2.682988] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.683217] media: Linux media interface: v0.10
[ 2.683272] Linux video capture interface: v2.00
[ 2.683314] pps_core: LinuxPPS API ver. 1 registered
[ 2.683321] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.683347] PTP clock support registered
[ 2.683397] EDAC MC: Ver: 3.0.0
[ 2.693354] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.693654] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.694119] Advanced Linux Sound Architecture Driver Initialized.
[ 2.703311] clocksource: Switched to clocksource arch_sys_counter
[ 2.746179] NET: Registered protocol family 2
[ 2.746778] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.746843] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.746968] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.747023] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747054] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747206] NET: Registered protocol family 1
[ 2.747799] Trying to unpack rootfs image as initramfs...
[ 2.791993] Freeing initrd memory: 1092K
[ 2.792932] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.795771] audit: initializing netlink subsys (disabled)
[ 2.795831] audit: type=2000 audit(2.789:1): initialized
[ 2.813117] VFS: Disk quotas dquot_6.6.0
[ 2.813285] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.824460] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.824714] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.825039] fuse init (API version 7.23)
[ 2.830004] bounce: pool size: 64 pages
[ 2.830162] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.830176] io scheduler noop registered
[ 2.830188] io scheduler deadline registered
[ 2.830219] io scheduler cfq registered (default)
[ 2.835073] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.838443] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.838482]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.838504]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.870063] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.870246] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.870260] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.870271] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.870281] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.870698] PCI: bus0: Fast back to back transfers disabled
[ 2.870822] PCI: bus1: Fast back to back transfers enabled
[ 2.870910] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.870926] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.870938] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.871165] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.876098] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.878569] console [ttyS0] disabled
[ 2.878631] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.125485] console [ttyS0] enabled
[ 4.129518] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
```

```
[ 4.138864] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.148914] [drm] Initialized drm 1.1.0 20060810
[ 4.155190] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.332069] brd: module loaded
[ 4.420403] loop: module loaded
[ 4.435136] nand: No NAND device found
[ 4.438909] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.449040] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.454483] 7 ofpart partitions found on MTD device spi32766.0
[ 4.460341] Creating 7 MTD partitions on "spi32766.0":
[ 4.465523] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.481585] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.497891] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.514800] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.531423] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.548769] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.565090] 0x0000009e0000-0x00000020000000 : "QSPI.file-system"
[ 4.582842] libphy: Fixed MDIO Bus: probed
[ 4.587571] tun: Universal TUN/TAP device driver, 1.6
[ 4.592644] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.598958] CAN device driver interface
[ 4.603945] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.663348] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.669474] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.690473] libphy: 48485000.mdio: probed
[ 4.694568] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.702870] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.711918] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.718628] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.725643] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.733278] PPP generic driver version 2.4.2
[ 4.737777] PPP BSD Compression module registered
[ 4.742505] PPP Deflate Compression module registered
[ 4.747635] PPP MPPE Compression module registered
[ 4.752450] NET: Registered protocol family 24
[ 4.759357] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.765984] ehci-pci: EHCI PCI platform driver
[ 4.770498] ehci-platform: EHCI generic platform driver
[ 4.776120] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.782351] ohci-pci: OHCI PCI platform driver
[ 4.786984] ohci-platform: OHCI generic platform driver
[ 4.793215] mousedev: PS/2 mouse device common for all mice
[ 4.799019] usbcore: registered new interface driver xpad
[ 4.804531] usbcore: registered new interface driver usb_acecad
[ 4.810518] usbcore: registered new interface driver aiptek
[ 4.816201] usbcore: registered new interface driver gtco
[ 4.821673] usbcore: registered new interface driver hanwang
[ 4.827422] usbcore: registered new interface driver kftab
[ 4.833535] i2c /dev entries driver
[ 4.838120] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.845251] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.851441] gspca_main: v2.14.0 registered
[ 4.859265] device-mapper: uevent: version 1.0.3
[ 4.864069] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.870185] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
```

devel@redhat.com

```
[ 4.878698] vip 48970000.vip: VPDMA firmware loaded
[ 4.894984] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.900639] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.907108] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.038250] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.044362] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.052595] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.060886] usbcore: registered new interface driver usbhid
[ 5.066535] usbhid: USB HID core driver
[ 5.070682] ashmem: initialized
[ 5.079266] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.085455] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.094416] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.099995] remoteproc0: 58820000.ipu is available
[ 5.105898] mmc0: new high speed SDIO card at address 0001
[ 5.112615] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.121751] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.132308] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.140704] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.148528] remoteproc0: Falling back to user helper
[ 5.153684] remoteproc1: 55020000.ipu is available
[ 5.158582] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.167716] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.178269] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.186676] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.194519] remoteproc1: Falling back to user helper
[ 5.199722] remoteproc2: 40800000.dsp is available
[ 5.204664] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.213923] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.224803] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.232622] remoteproc3: 41000000.dsp is available
[ 5.237623] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.246711] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.257248] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.269171] remoteproc2: Falling back to user helper
[ 5.285303] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.294164] usbcore: registered new interface driver snd-usb-audio
[ 5.302055] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.307393] remoteproc3: Falling back to user helper
[ 5.313643] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.319098] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
```

```
[ 5.326979] u32 classifier
[ 5.329698]     input device check on
[ 5.333456]     Actions configured
[ 5.336883] Netfilter messages via NETLINK v0.30.
[ 5.341663] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.348335] ctnetlink v0.93: registering with nfnetlink.
[ 5.355331] xt_time: kernel timezone is -0000
[ 5.360098] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.365676] arp_tables: (C) 2002 David S. Miller
[ 5.370458] Initializing XFRM netlink socket
[ 5.375425] NET: Registered protocol family 10
[ 5.391003] mip6: Mobile IPv6
[ 5.394059] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.399815] sit: IPv6 over IPv4 tunneling driver
[ 5.405043] NET: Registered protocol family 17
[ 5.409530] NET: Registered protocol family 15
[ 5.414024] can: controller area network core (rev 20120528 abi 9)
[ 5.420288] NET: Registered protocol family 29
[ 5.424830] can: raw protocol (rev 20120528)
[ 5.429126] can: broadcast manager protocol (rev 20120528 t)
[ 5.434841] can: netlink gateway (rev 20130117) max_hops=1
[ 5.440663] NET: Registered protocol family 41
[ 5.445484] omap_voltage_late_init: Voltage driver support not added
[ 5.452473] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.458714] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.464972] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.471574] Power Management for TI OMAP4+ devices.
[ 5.476732] Registering SWP/SWPB emulation handler
[ 5.481995] registered taskstats version 1
[ 5.486996] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.494582] dmm 4e000000.dmm: initialized all PAT entries
[ 5.512096] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.521069] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.527080] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.533536] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.541203] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.547468] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.553748] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.561282] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.569161] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.576706] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.582661] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.589204] hctosys: unable to open rtc device (rtc0)
[ 5.603396] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611327] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.623918] evm_1v8: disabling
[ 5.626994] evm_3v3_sw: disabling
[ 5.630323] aic_dvdd: disabling
[ 5.633563] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.639845] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.646360] vmmcwl_fixed: disabling
[ 5.649873] evm_3v3_sd: disabling
[ 5.654111] ALSA device list:
[ 5.657095]     No soundcards found.
[ 5.661396] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.668752] Freeing unused kernel memory: 2048K
[ 5.677259] init: init first stage started!
[ 5.681724] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.809922] init: bool android::init::FirstStageMount::InitRequiredDevices():
```

```
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.824932] init: Wait for partitions returned after 10001ms
[ 15.830640] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.843259] init: Failed to mount required partitions early ...
[ 15.849265] init: panic: rebooting to bootloader
[ 15.855076] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.861856] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.869608] init: Shutdown timeout: 6000 ms
[ 15.873906] init: terminating init services
[ 15.878130] init: waitid failed: No child processes
[ 15.883048] init: Terminating running services took 27ms with remaining
services:0
[ 15.890726] init: waitid failed: No child processes
[ 15.895679] init: vold not running, skipping vold shutdown
[ 16.001701] init: powerctl_shutdown_time_ms:146:0
[ 16.006462] init: Reboot ending, jumping to kernel
[ 16.011632] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.017195] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.022738] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.028289] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.035635] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
```



```
## Flattened Device Tree blob at 88000000
  Booting using the fdt blob at 0x88000000
  Loading Kernel Image ... OK
  Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
  Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbf000000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
```

```

[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000325] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000333] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000745] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000759] pid_max: default: 32768 minimum: 301
[ 0.000832] Security Framework initialized
[ 0.000843] SELinux: Initializing.
[ 0.000917] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000927] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001496] Initializing cgroup subsys io
[ 0.001515] Initializing cgroup subsys memory
[ 0.001539] Initializing cgroup subsys devices
[ 0.001552] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001575] Initializing cgroup subsys pids
[ 0.001614] CPU: Testing write buffer coherency: ok
[ 0.001861] /cpus/cpu@0 missing clock-frequency property
[ 0.001879] /cpus/cpu@1 missing clock-frequency property
[ 0.001888] CPU0: update cpu_capacity 1024
[ 0.001896] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080480] CPU1: failed to come online
[ 1.080510] Brought up 1 CPUs
[ 1.080519] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080526] CPU: All CPU(s) started in HYP mode.
[ 1.080532] CPU: Virtualization extensions available.
[ 1.080562] CPU0: update max cpu_capacity 1024
[ 1.120880] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121897] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221516] omap_hwmod: cal: no dt node
[ 1.221527] -----[ cut here ]-----
[ 1.221542] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221549] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221556] Modules linked in:
[ 1.221571] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221578] Hardware name: Generic DRA74X (Flattened Device Tree)

```

```

[ 1.221585] Backtrace:
[ 1.221602] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.221609] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221638] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221650] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221657] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221680] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221686] r3:c0e065f8 r2:c0e03fe0
[ 1.221697] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221719] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221725] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221746] r4:c1217c48
[ 1.221759] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221766] r5:c120bd68 r4:00000001
[ 1.221781] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221788] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221808] r4:00000001
[ 1.221822] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221828] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221847] r4:00000000
[ 1.221861] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221867] r5:c0b46388 r4:00000000
[ 1.221893] ---[ end trace fa025aae4b23a628 ]---
[ 1.310345] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310367] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314202] pinctrl core: initialized pinctrl subsystem
[ 1.315223] NET: Registered protocol family 16
[ 1.316348] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360906] cpuidle: using governor ladder
[ 1.420956] cpuidle: using governor menu
[ 1.429950] OMAP GPIO hardware version 0.1
[ 1.434151] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436506] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453845] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453860] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460629] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460937] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461210] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465701] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465712] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466198] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466207] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466905] OMAP DMA hardware revision 0.0
[ 1.572064] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573329] edma 43300000.edma: memcpy is disabled

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[ 1.578169] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582907] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583101] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583271] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583446] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583754] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583948] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586008] usbcore: registered new interface driver usbfs
[ 1.586069] usbcore: registered new interface driver hub
[ 1.586184] usbcore: registered new device driver usb
[ 1.587700] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602181] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611646] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611757] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612605] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613344] pcf857x 0-0020: probed
[ 1.613950] pcf857x 0-0021: probed
[ 1.614097] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632796] omap_i2c 48072000.i2c: controller timed out
[ 2.652824] pcf857x: probe of 1-0026 failed with error -110
[ 2.653384] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653841] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673050] pcf857x 3-0021: probed
[ 2.673078] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673303] media: Linux media interface: v0.10
[ 2.673356] Linux video capture interface: v2.00
[ 2.673400] pps_core: LinuxPPS API ver. 1 registered
[ 2.673408] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673434] PTP clock support registered
[ 2.673485] EDAC MC: Ver: 3.0.0
[ 2.683442] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683739] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684208] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693391] clocksource: Switched to clocksource arch_sys_counter
[ 2.736192] NET: Registered protocol family 2
[ 2.736802] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.736866] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.736991] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737045] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737076] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737231] NET: Registered protocol family 1
[ 2.737822] Trying to unpack rootfs image as initramfs...
[ 2.782004] Freeing initrd memory: 1092K
[ 2.782936] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.785777] audit: initializing netlink subsys (disabled)
[ 2.785835] audit: type=2000 audit(2.779:1): initialized
[ 2.803196] VFS: Disk quotas dquot_6.6.0
[ 2.803368] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814536] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814793] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815126] fuse init (API version 7.23)
[ 2.820085] bounce: pool size: 64 pages
[ 2.820244] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820259] io scheduler noop registered
[ 2.820270] io scheduler deadline registered
```

```
[ 2.820301] io scheduler cfq registered (default)
[ 2.825162] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828521] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.828560]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828582]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860269] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860449] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860464] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860475] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860485] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.860900] PCI: bus0: Fast back to back transfers disabled
[ 2.861023] PCI: bus1: Fast back to back transfers enabled
[ 2.861115] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861131] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861144] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861370] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866287] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868727] console [ttyS0] disabled
[ 2.868789] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115655] console [ttyS0] enabled
[ 4.119687] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129035] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139077] [drm] Initialized drm 1.1.0 20060810
[ 4.145358] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322243] brd: module loaded
[ 4.410587] loop: module loaded
[ 4.425331] nand: No NAND device found
[ 4.429104] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439236] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444681] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450539] Creating 7 MTD partitions on "spi32766.0":
[ 4.455720] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.471774] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.488081] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.504994] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.521621] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.538971] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555299] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573050] libphy: Fixed MDIO Bus: probed
[ 4.577780] tun: Universal TUN/TAP device driver, 1.6
[ 4.582853] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589165] CAN device driver interface
[ 4.594161] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653429] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659556] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680512] libphy: 48485000.mdio: probed
[ 4.684607] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692910] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701956] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708662] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715682] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723321] PPP generic driver version 2.4.2
[ 4.727818] PPP BSD Compression module registered
```

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[ 4.732548] PPP Deflate Compression module registered
[ 4.737679] PPP MPPE Compression module registered
[ 4.742496] NET: Registered protocol family 24
[ 4.749400] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.756023] ehci-pci: EHCI PCI platform driver
[ 4.760535] ehci-platform: EHCI generic platform driver
[ 4.766160] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772392] ohci-pci: OHCI PCI platform driver
[ 4.777026] ohci-platform: OHCI generic platform driver
[ 4.783247] mousedev: PS/2 mouse device common for all mice
[ 4.789047] usbcore: registered new interface driver xpad
[ 4.794558] usbcore: registered new interface driver usb_acecad
[ 4.800545] usbcore: registered new interface driver aiptek
[ 4.806228] usbcore: registered new interface driver gtco
[ 4.811697] usbcore: registered new interface driver hanwang
[ 4.817443] usbcore: registered new interface driver kbtabs
[ 4.823558] i2c /dev entries driver
[ 4.828144] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835282] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841478] gspca_main: v2.14.0 registered
[ 4.849270] device-mapper: uevent: version 1.0.3
[ 4.854074] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860188] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868702] vip 48970000.vip: VPDMA firmware loaded
[ 4.884984] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890641] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897111] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028441] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034517] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042751] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051077] usbcore: registered new interface driver usbhid
[ 5.056752] usbhid: USB HID core driver
[ 5.060895] ashmem: initialized
[ 5.069494] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076667] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082337] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091126] mmc0: new high speed SDIO card at address 0001
[ 5.096709] remoteproc0: 58820000.ipu is available
[ 5.101609] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111941] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122497] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130893] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138716] remoteproc0: Falling back to user helper
[ 5.143870] remoteproc1: 55020000.ipu is available
[ 5.148768] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157901] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168451] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176856] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
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[ 5.184702] remoteproc1: Falling back to user helper
[ 5.189905] remoteproc2: 40800000.dsp is available
[ 5.194847] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204106] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214981] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222801] remoteproc3: 41000000.dsp is available
[ 5.227800] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236890] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247430] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259349] remoteproc2: Falling back to user helper
[ 5.275496] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284363] usbcore: registered new interface driver snd-usb-audio
[ 5.292260] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297596] remoteproc3: Falling back to user helper
[ 5.303850] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309304] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317185] u32 classifier
[ 5.319905]     input device check on
[ 5.323662]     Actions configured
[ 5.327089] Netfilter messages via NETLINK v0.30.
[ 5.331869] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338543] ctnetlink v0.93: registering with nfnetlink.
[ 5.345541] xt_time: kernel timezone is -0000
[ 5.350302] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355877] arp_tables: (C) 2002 David S. Miller
[ 5.360660] Initializing XFRM netlink socket
[ 5.365617] NET: Registered protocol family 10
[ 5.381182] mip6: Mobile IPv6
[ 5.384237] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389991] sit: IPv6 over IPv4 tunneling driver
[ 5.395213] NET: Registered protocol family 17
[ 5.399701] NET: Registered protocol family 15
[ 5.404193] can: controller area network core (rev 20120528 abi 9)
[ 5.410458] NET: Registered protocol family 29
[ 5.414999] can: raw protocol (rev 20120528)
[ 5.419296] can: broadcast manager protocol (rev 20120528 t)
[ 5.425010] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430829] NET: Registered protocol family 41
[ 5.435652] omap_voltage_late_init: Voltage driver support not added
[ 5.442636] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448876] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455135] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461735] Power Management for TI OMAP4+ devices.
[ 5.466897] Registering SWP/SWPB emulation handler
[ 5.472166] registered taskstats version 1
[ 5.477161] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484744] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502254] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511226] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517235] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523688] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531362] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
```

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[ 5.537627] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543909] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551450] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559324] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566877] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572837] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579373] hctosys: unable to open rtc device (rtc0)
[ 5.593472] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601403] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613999] evm_1v8: disabling
[ 5.617075] evm_3v3_sw: disabling
[ 5.620402] aic_dvdd: disabling
[ 5.623642] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629923] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636439] vmmcwl_fixed: disabling
[ 5.639952] evm_3v3_sd: disabling
[ 5.643545] ALSA device list:
[ 5.646525]   No soundcards found.
[ 5.651438] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658792] Freeing unused kernel memory: 2048K
[ 5.667294] init: init first stage started!
[ 5.671761] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799643] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815012] init: Wait for partitions returned after 10001ms
[ 15.820720] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833339] init: Failed to mount required partitions early ...
[ 15.839346] init: panic: rebooting to bootloader
[ 15.845155] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851936] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859688] init: Shutdown timeout: 6000 ms
[ 15.863984] init: terminating init services
[ 15.868209] init: waitid failed: No child processes
[ 15.873129] init: Terminating running services took 27ms with remaining
services:0
[ 15.880807] init: waitid failed: No child processes
[ 15.885760] init: vold not running, skipping vold shutdown
[ 15.991785] init: powerctl_shutdown_time_ms:146:0
[ 15.996548] init: Reboot ending, jumping to kernel
[ 16.001716] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007282] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012825] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018375] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025737] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
```


DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
```

```

[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbf000000 - 0xc0000000   (  2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000323] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000331] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000739] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000753] pid_max: default: 32768 minimum: 301
[ 0.000828] Security Framework initialized
[ 0.000840] SELinux: Initializing.
[ 0.000916] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000926] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001500] Initializing cgroup subsys io
[ 0.001518] Initializing cgroup subsys memory
[ 0.001544] Initializing cgroup subsys devices
[ 0.001557] Initializing cgroup subsys freezer
[ 0.001568] Initializing cgroup subsys perf_event
[ 0.001580] Initializing cgroup subsys pids
[ 0.001618] CPU: Testing write buffer coherency: ok

```

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[ 0.001862] /cpus/cpu@0 missing clock-frequency property
[ 0.001879] /cpus/cpu@1 missing clock-frequency property
[ 0.001888] CPU0: update cpu_capacity 1024
[ 0.001896] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080494] CPU1: failed to come online
[ 1.080525] Brought up 1 CPUs
[ 1.080534] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080541] CPU: All CPU(s) started in HYP mode.
[ 1.080547] CPU: Virtualization extensions available.
[ 1.080579] CPU0: update max cpu_capacity 1024
[ 1.110879] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111910] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210869] omap_hwmod: cal: no dt node
[ 1.210879] -----[ cut here ]-----
[ 1.210894] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.210901] omap_hwmod: cal: doesn't have mpu register target base
[ 1.210907] Modules linked in:
[ 1.210921] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.210929] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.210936] Backtrace:
[ 1.210952] [

```

```

[ 1.299537] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304226] pinctrl core: initialized pinctrl subsystem
[ 1.305240] NET: Registered protocol family 16
[ 1.306371] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350901] cpuidle: using governor ladder
[ 1.410952] cpuidle: using governor menu
[ 1.419913] OMAP GPIO hardware version 0.1
[ 1.424079] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426434] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.443764] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443778] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450527] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450838] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451111] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455618] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455628] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456114] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456124] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456823] OMAP DMA hardware revision 0.0
[ 1.561998] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563264] edma 43300000.edma: memcpy is disabled
[ 1.568082] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572813] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573006] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573173] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573349] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573654] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573847] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575899] usbcore: registered new interface driver usbfs
[ 1.575959] usbcore: registered new interface driver hub
[ 1.576077] usbcore: registered new device driver usb
[ 1.577588] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592078] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601565] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601676] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602519] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603256] pcf857x 0-0020: probed
[ 1.603867] pcf857x 0-0021: probed
[ 1.604016] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622699] omap_i2c 48072000.i2c: controller timed out
[ 2.642727] pcf857x: probe of 1-0026 failed with error -110
[ 2.643285] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643740] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662944] pcf857x 3-0021: probed
[ 2.662972] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663201] media: Linux media interface: v0.10
[ 2.663254] Linux video capture interface: v2.00
[ 2.663298] pps_core: LinuxPPS API ver. 1 registered
[ 2.663305] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663331] PTP clock support registered
[ 2.663382] EDAC MC: Ver: 3.0.0
[ 2.673342] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673642] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674109] Advanced Linux Sound Architecture Driver Initialized.

```

```
[ 2.683294] clocksource: Switched to clocksource arch_sys_counter
[ 2.726680] NET: Registered protocol family 2
[ 2.727286] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727352] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727477] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727532] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727563] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727716] NET: Registered protocol family 1
[ 2.728307] Trying to unpack rootfs image as initramfs...
[ 2.772514] Freeing initrd memory: 1092K
[ 2.773571] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776267] audit: initializing netlink subsys (disabled)
[ 2.776325] audit: type=2000 audit(2.769:1): initialized
[ 2.793714] VFS: Disk quotas dquot_6.6.0
[ 2.793888] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.805014] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805272] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805600] fuse init (API version 7.23)
[ 2.810576] bounce: pool size: 64 pages
[ 2.810737] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810750] io scheduler noop registered
[ 2.810762] io scheduler deadline registered
[ 2.810794] io scheduler cfq registered (default)
[ 2.815652] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819012] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.819053]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819075]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.850600] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850782] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850796] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850806] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850815] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.851230] PCI: bus0: Fast back to back transfers disabled
[ 2.851352] PCI: bus1: Fast back to back transfers enabled
[ 2.851444] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851460] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851473] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851695] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856625] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859083] console [ttyS0] disabled
[ 2.859145] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.105975] console [ttyS0] enabled
[ 4.110007] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119354] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129401] [drm] Initialized drm 1.1.0 20060810
[ 4.135700] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312583] brd: module loaded
[ 4.400926] loop: module loaded
[ 4.415668] nand: No NAND device found
[ 4.419442] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429568] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435013] 7 ofpart partitions found on MTD device spi32766.0
[ 4.440873] Creating 7 MTD partitions on "spi32766.0":
[ 4.446055] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.462115] 0x000000040000-0x000000140000 : "QSPI.u-boot"
```

```
[ 4.478426] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495338] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.511959] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.529308] 0x0000001e0000-0x0000001e0000 : "QSPI.kernel"
[ 4.545628] 0x0000001e0000-0x000000200000 : "QSPI.file-system"
[ 4.563417] libphy: Fixed MDIO Bus: probed
[ 4.568085] tun: Universal TUN/TAP device driver, 1.6
[ 4.573156] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579495] CAN device driver interface
[ 4.584485] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643332] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649459] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670358] libphy: 48485000.mdio: probed
[ 4.674451] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682754] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691800] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698507] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705528] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713165] PPP generic driver version 2.4.2
[ 4.717664] PPP BSD Compression module registered
[ 4.722394] PPP Deflate Compression module registered
[ 4.727524] PPP MPPE Compression module registered
[ 4.732341] NET: Registered protocol family 24
[ 4.739249] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745875] ehci-pci: EHCI PCI platform driver
[ 4.750388] ehci-platform: EHCI generic platform driver
[ 4.756008] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762240] ohci-pci: OHCI PCI platform driver
[ 4.766869] ohci-platform: OHCI generic platform driver
[ 4.773100] mousedev: PS/2 mouse device common for all mice
[ 4.778904] usbcore: registered new interface driver xpad
[ 4.784413] usbcore: registered new interface driver usb_acecad
[ 4.790402] usbcore: registered new interface driver aiptek
[ 4.796085] usbcore: registered new interface driver gtco
[ 4.801556] usbcore: registered new interface driver hanwang
[ 4.807303] usbcore: registered new interface driver kbtap
[ 4.813414] i2c /dev entries driver
[ 4.817999] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825135] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831323] gspca_main: v2.14.0 registered
[ 4.839149] device-mapper: uevent: version 1.0.3
[ 4.843952] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.850065] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858578] vip 48970000.vip: VPDMA firmware loaded
[ 4.874860] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880510] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.886978] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018238] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024315] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032547] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040856] usbcore: registered new interface driver usbhid
[ 5.046543] usbhid: USB HID core driver
[ 5.050691] ashmem: initialized
[ 5.059278] hwspinlock_user gatemp: requested 20 hwspinlocks
```

```
[ 5.065470] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074442] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.080019] remoteproc0: 58820000.ipu is available
[ 5.085926] mmc0: new high speed SDIO card at address 0001
[ 5.092639] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101775] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112330] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120725] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128549] remoteproc0: Falling back to user helper
[ 5.133704] remoteproc1: 55020000.ipu is available
[ 5.138603] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147737] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158290] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166694] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174538] remoteproc1: Falling back to user helper
[ 5.179739] remoteproc2: 40800000.dsp is available
[ 5.184684] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.193943] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204825] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212645] remoteproc3: 41000000.dsp is available
[ 5.217646] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226734] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237271] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249185] remoteproc2: Falling back to user helper
[ 5.265326] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.274185] usbcore: registered new interface driver snd-usb-audio
[ 5.282084] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287420] remoteproc3: Falling back to user helper
[ 5.293681] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299138] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.307016] u32 classifier
[ 5.309736]     input device check on
[ 5.313493]     Actions configured
[ 5.316920] Netfilter messages via NETLINK v0.30.
[ 5.321700] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328376] ctnetlink v0.93: registering with nfnetlink.
[ 5.335379] xt_time: kernel timezone is -0000
[ 5.340144] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345719] arp_tables: (C) 2002 David S. Miller
[ 5.350500] Initializing XFRM netlink socket
[ 5.355469] NET: Registered protocol family 10
[ 5.371050] mip6: Mobile IPv6
[ 5.374107] ip6_tables: (C) 2000-2006 Netfilter Core Team
```

```
[ 5.379866] sit: IPv6 over IPv4 tunneling driver
[ 5.385090] NET: Registered protocol family 17
[ 5.389577] NET: Registered protocol family 15
[ 5.394072] can: controller area network core (rev 20120528 abi 9)
[ 5.400335] NET: Registered protocol family 29
[ 5.404878] can: raw protocol (rev 20120528)
[ 5.409173] can: broadcast manager protocol (rev 20120528 t)
[ 5.414889] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420709] NET: Registered protocol family 41
[ 5.425534] omap_voltage_late_init: Voltage driver support not added
[ 5.432517] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438757] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.445016] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.451619] Power Management for TI OMAP4+ devices.
[ 5.456781] Registering SWP/SWPB emulation handler
[ 5.462052] registered taskstats version 1
[ 5.467052] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474644] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492154] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501125] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507152] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513607] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521278] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527543] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533823] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541372] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.549245] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556796] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562754] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569295] hctosys: unable to open rtc device (rtc0)
[ 5.583376] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591322] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.603906] evm_1v8: disabling
[ 5.606982] evm_3v3_sw: disabling
[ 5.610310] aic_dvdd: disabling
[ 5.613547] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619828] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.626342] vmmcwl_fixed: disabling
[ 5.629856] evm_3v3_sd: disabling
[ 5.633449] ALSA device list:
[ 5.636428]   No soundcards found.
[ 5.641339] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648706] Freeing unused kernel memory: 2048K
[ 5.657218] init: init first stage started!
[ 5.661685] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.789669] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.804914] init: Wait for partitions returned after 10001ms
[ 15.810623] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823242] init: Failed to mount required partitions early ...
[ 15.829250] init: panic: rebooting to bootloader
[ 15.835061] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841841] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849595] init: Shutdown timeout: 6000 ms
[ 15.853894] init: terminating init services
[ 15.858119] init: waitid failed: No child processes
[ 15.863038] init: Terminating running services took 27ms with remaining
```



```
services:0
[ 15.870714] init: waitid failed: No child processes
[ 15.875665] init: vold not running, skipping vold shutdown
[ 15.981688] init: powerctl_shutdown_time_ms:146:0
[ 15.986451] init: Reboot ending, jumping to kernel
[ 15.991619] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997184] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002726] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008275] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015635] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
```

```
Kernel command line: buildvariant=userdebug
```

```
RAM disk load addr 0x83000000 size 1092 KiB
```

```
## Flattened Device Tree blob at 88000000
```

```
Booting using the fdt blob at 0x88000000
```

```
Loading Kernel Image ... OK
```

```
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
```

```
Loading Device Tree to 8fed1000, end 8feee946 ... OK
```

```
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
```

```
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size 64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size 32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size 8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved, 1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap    : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text    : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init    : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data    : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss     : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
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[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000325] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000333] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000746] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000760] pid_max: default: 32768 minimum: 301
[ 0.000833] Security Framework initialized
[ 0.000845] SELinux: Initializing.
[ 0.000917] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000927] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001497] Initializing cgroup subsys io
[ 0.001515] Initializing cgroup subsys memory
[ 0.001542] Initializing cgroup subsys devices
[ 0.001555] Initializing cgroup subsys freezer
[ 0.001567] Initializing cgroup subsys perf_event
[ 0.001579] Initializing cgroup subsys pids
[ 0.001617] CPU: Testing write buffer coherency: ok
[ 0.001867] /cpus/cpu@0 missing clock-frequency property
[ 0.001883] /cpus/cpu@1 missing clock-frequency property
[ 0.001892] CPU0: update cpu_capacity 1024
[ 0.001901] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001947] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080480] CPU1: failed to come online
[ 1.080511] Brought up 1 CPUs
[ 1.080520] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080527] CPU: All CPU(s) started in HYP mode.
[ 1.080533] CPU: Virtualization extensions available.
[ 1.080565] CPU0: update max cpu_capacity 1024
[ 1.120895] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121934] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220950] omap_hwmod: cal: no dt node
[ 1.220961] -----[ cut here ]-----
[ 1.220976] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220983] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220989] Modules linked in:
[ 1.221005] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221013] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221019] Backtrace:
[ 1.221036] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.221043] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221074] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.221087] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221094] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221117] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.221123] r3:c0e065f8 r2:c0e03fe0
[ 1.221134] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221156] [] (_init) from []

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(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221162] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221184] r4:c1217c48
[ 1.221197] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221203] r5:c120bd68 r4:00000001
[ 1.221220] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221226] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221246] r4:00000001
[ 1.221259] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221265] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221285] r4:00000000
[ 1.221299] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221305] r5:c0b46388 r4:00000000
[ 1.221331] ---[ end trace 5d1574a64256c957 ]---
[ 1.309761] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309783] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314232] pinctrl core: initialized pinctrl subsystem
[ 1.315250] NET: Registered protocol family 16
[ 1.316378] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360916] cpuidle: using governor ladder
[ 1.420964] cpuidle: using governor menu
[ 1.429944] OMAP GPIO hardware version 0.1
[ 1.434109] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436447] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453761] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453776] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460543] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460849] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461122] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465611] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465622] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466116] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466126] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466820] OMAP DMA hardware revision 0.0
[ 1.572025] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573294] edma 43300000.edma: memcpy is disabled
[ 1.578106] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582840] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583035] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583205] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583381] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583688] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583880] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585949] usbcore: registered new interface driver usbfs
[ 1.586009] usbcore: registered new interface driver hub
[ 1.586124] usbcore: registered new device driver usb
[ 1.587642] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602109] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611571] smps9: failed to apply 1800000uV constraint(-22)
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[ 1.611683] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612528] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613264] pcf857x 0-0020: probed
[ 1.613869] pcf857x 0-0021: probed
[ 1.614017] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632725] omap_i2c 48072000.i2c: controller timed out
[ 2.652753] pcf857x: probe of 1-0026 failed with error -110
[ 2.653317] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653771] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672970] pcf857x 3-0021: probed
[ 2.672998] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673229] media: Linux media interface: v0.10
[ 2.673283] Linux video capture interface: v2.00
[ 2.673326] pps_core: LinuxPPS API ver. 1 registered
[ 2.673334] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673360] PTP clock support registered
[ 2.673411] EDAC MC: Ver: 3.0.0
[ 2.683371] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683672] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684137] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693317] clocksource: Switched to clocksource arch_sys_counter
[ 2.736719] NET: Registered protocol family 2
[ 2.737319] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737385] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737510] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737563] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737595] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737747] NET: Registered protocol family 1
[ 2.738337] Trying to unpack rootfs image as initramfs...
[ 2.782521] Freeing initrd memory: 1092K
[ 2.783592] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786286] audit: initializing netlink subsys (disabled)
[ 2.786344] audit: type=2000 audit(2.779:1): initialized
[ 2.803764] VFS: Disk quotas dquot_6.6.0
[ 2.803935] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815058] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815316] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815645] fuse init (API version 7.23)
[ 2.820616] bounce: pool size: 64 pages
[ 2.820779] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820793] io scheduler noop registered
[ 2.820805] io scheduler deadline registered
[ 2.820836] io scheduler cfq registered (default)
[ 2.825675] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829122] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829161]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829183]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860858] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.861037] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.861051] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.861062] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.861072] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861485] PCI: bus0: Fast back to back transfers disabled
[ 2.861609] PCI: bus1: Fast back to back transfers enabled
[ 2.861699] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
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[ 2.861714] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861727] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861954] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866884] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869357] console [ttyS0] disabled
[ 2.869420] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116299] console [ttyS0] enabled
[ 4.120336] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129683] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139733] [drm] Initialized drm 1.1.0 20060810
[ 4.146007] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322883] brd: module loaded
[ 4.411233] loop: module loaded
[ 4.425972] nand: No NAND device found
[ 4.429746] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439866] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445312] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451169] Creating 7 MTD partitions on "spi32766.0":
[ 4.456351] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472415] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488731] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505644] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522266] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539611] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.555936] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.573733] libphy: Fixed MDIO Bus: probed
[ 4.578395] tun: Universal TUN/TAP device driver, 1.6
[ 4.583513] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589807] CAN device driver interface
[ 4.594793] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653354] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659481] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680441] libphy: 48485000.mdio: probed
[ 4.684537] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692841] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701883] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708590] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715610] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723254] PPP generic driver version 2.4.2
[ 4.727753] PPP BSD Compression module registered
[ 4.732482] PPP Deflate Compression module registered
[ 4.737612] PPP MPPE Compression module registered
[ 4.742427] NET: Registered protocol family 24
[ 4.749331] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755954] ehci-pci: EHCI PCI platform driver
[ 4.760466] ehci-platform: EHCI generic platform driver
[ 4.766084] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772316] ohci-pci: OHCI PCI platform driver
[ 4.776954] ohci-platform: OHCI generic platform driver
[ 4.783186] mousedev: PS/2 mouse device common for all mice
[ 4.788985] usbcore: registered new interface driver xpad
[ 4.794495] usbcore: registered new interface driver usb_acecad
[ 4.800484] usbcore: registered new interface driver aiptek
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[ 4.806168] usbcore: registered new interface driver gtco
[ 4.811637] usbcore: registered new interface driver hanwang
[ 4.817382] usbcore: registered new interface driver kbtabs
[ 4.823495] i2c /dev entries driver
[ 4.828083] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835226] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841421] gspca_main: v2.14.0 registered
[ 4.849247] device-mapper: uevent: version 1.0.3
[ 4.854050] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860164] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868677] vip 48970000.vip: VPDMA firmware loaded
[ 4.884968] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890618] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897087] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028360] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034436] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042670] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051024] usbcore: registered new interface driver usbhid
[ 5.056672] usbhid: USB HID core driver
[ 5.060816] ashmem: initialized
[ 5.069414] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076596] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082263] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091065] mmc0: new high speed SDIO card at address 0001
[ 5.096647] remoteproc0: 58820000.ipu is available
[ 5.101547] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111878] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122437] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130829] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138656] remoteproc0: Falling back to user helper
[ 5.143810] remoteproc1: 55020000.ipu is available
[ 5.148708] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157840] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168392] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176797] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184641] remoteproc1: Falling back to user helper
[ 5.189845] remoteproc2: 40800000.dsp is available
[ 5.194786] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204044] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214924] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222744] remoteproc3: 41000000.dsp is available
[ 5.227743] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236833] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
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[ 5.247368] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259283] remoteproc2: Falling back to user helper
[ 5.275420] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284286] usbcore: registered new interface driver snd-usb-audio
[ 5.292174] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297513] remoteproc3: Falling back to user helper
[ 5.303777] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309233] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317118] u32 classifier
[ 5.319837]     input device check on
[ 5.323594]     Actions configured
[ 5.327021] Netfilter messages via NETLINK v0.30.
[ 5.331800] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338475] ctnetlink v0.93: registering with nfnetlink.
[ 5.345476] xt_time: kernel timezone is -0000
[ 5.350243] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355819] arp_tables: (C) 2002 David S. Miller
[ 5.360602] Initializing XFRM netlink socket
[ 5.365569] NET: Registered protocol family 10
[ 5.381142] mip6: Mobile IPv6
[ 5.384200] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389958] sit: IPv6 over IPv4 tunneling driver
[ 5.395185] NET: Registered protocol family 17
[ 5.399673] NET: Registered protocol family 15
[ 5.404165] can: controller area network core (rev 20120528 abi 9)
[ 5.410429] NET: Registered protocol family 29
[ 5.414973] can: raw protocol (rev 20120528)
[ 5.419268] can: broadcast manager protocol (rev 20120528 t)
[ 5.424984] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430801] NET: Registered protocol family 41
[ 5.435627] omap_voltage_late_init: Voltage driver support not added
[ 5.442621] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448862] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455120] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461722] Power Management for TI OMAP4+ devices.
[ 5.466883] Registering SWP/SWPB emulation handler
[ 5.472147] registered taskstats version 1
[ 5.477133] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484711] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502240] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511222] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517249] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523704] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531371] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537639] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543918] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551466] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559331] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566892] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572840] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579378] hctosys: unable to open rtc device (rtc0)
[ 5.593403] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601327] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614005] evm_1v8: disabling
[ 5.617082] evm_3v3_sw: disabling
[ 5.620410] aic_dvdd: disabling
[ 5.623649] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
```



```
[ 5.629933] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636449] vmmcwl_fixed: disabling
[ 5.639964] evm_3v3_sd: disabling
[ 5.643552] ALSA device list:
[ 5.646533]   No soundcards found.
[ 5.651441] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658804] Freeing unused kernel memory: 2048K
[ 5.667315] init: init first stage started!
[ 5.671779] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799853] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814935] init: Wait for partitions returned after 10001ms
[ 15.820643] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833261] init: Failed to mount required partitions early ...
[ 15.839267] init: panic: rebooting to bootloader
[ 15.845074] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851854] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859607] init: Shutdown timeout: 6000 ms
[ 15.863906] init: terminating init services
[ 15.868130] init: waitid failed: No child processes
[ 15.873049] init: Terminating running services took 27ms with remaining
services:0
[ 15.880725] init: waitid failed: No child processes
[ 15.885677] init: vold not running, skipping vold shutdown
[ 15.991701] init: powerctl_shutdown_time_ms:146:0
[ 15.996462] init: Reboot ending, jumping to kernel
[ 16.001635] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007199] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012742] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018292] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025657] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000

Hit any key to stop autoboot: 0

MMC: no card present

MMC: no card present

MMC: no card present

switch to partitions #0, OK

mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size 64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size 32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size 8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
```

```
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xfff00000   (3072 kB)
[ 0.000000]   vmalloc   : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem    : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap    : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]   modules   : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]   .text    : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init    : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data    : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss    : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000314] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000323] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000732] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000746] pid_max: default: 32768 minimum: 301
[ 0.000820] Security Framework initialized
[ 0.000832] SELinux: Initializing.
[ 0.000904] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000914] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001484] Initializing cgroup subsys io
[ 0.001502] Initializing cgroup subsys memory
[ 0.001527] Initializing cgroup subsys devices
[ 0.001540] Initializing cgroup subsys freezer
[ 0.001552] Initializing cgroup subsys perf_event
[ 0.001564] Initializing cgroup subsys pids
[ 0.001603] CPU: Testing write buffer coherency: ok
[ 0.001849] /cpus/cpu@0 missing clock-frequency property
[ 0.001866] /cpus/cpu@1 missing clock-frequency property
[ 0.001875] CPU0: update cpu_capacity 1024
[ 0.001884] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001930] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080479] CPU1: failed to come online
[ 1.080512] Brought up 1 CPUs
[ 1.080521] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080527] CPU: All CPU(s) started in HYP mode.
[ 1.080534] CPU: Virtualization extensions available.
[ 1.080565] CPU0: update max cpu_capacity 1024
[ 1.110866] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
```

```
[ 1.111897] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.211229] omap_hwmod: cal: no dt node
[ 1.211239] -----[ cut here ]-----
[ 1.211254] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211262] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211268] Modules linked in:
[ 1.211282] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211289] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211296] Backtrace:
[ 1.211313] [
```

```
[ 1.451130] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455636] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455648] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456144] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456154] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456853] OMAP DMA hardware revision 0.0
[ 1.562003] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563265] edma 43300000.edma: memcpy is disabled
[ 1.568100] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572832] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573026] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573193] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573365] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573671] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573864] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575913] usbcore: registered new interface driver usbfs
[ 1.575974] usbcore: registered new interface driver hub
[ 1.576087] usbcore: registered new device driver usb
[ 1.577594] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592099] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601563] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601675] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602523] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603247] pcf857x 0-0020: probed
[ 1.603856] pcf857x 0-0021: probed
[ 1.604002] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622710] omap_i2c 48072000.i2c: controller timed out
[ 2.642738] pcf857x: probe of 1-0026 failed with error -110
[ 2.643299] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643753] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662956] pcf857x 3-0021: probed
[ 2.662983] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663215] media: Linux media interface: v0.10
[ 2.663269] Linux video capture interface: v2.00
[ 2.663313] pps_core: LinuxPPS API ver. 1 registered
[ 2.663320] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663346] PTP clock support registered
[ 2.663397] EDAC MC: Ver: 3.0.0
[ 2.673352] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673651] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674118] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683307] clocksource: Switched to clocksource arch_sys_counter
[ 2.726689] NET: Registered protocol family 2
[ 2.727288] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727352] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727477] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727532] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727563] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727719] NET: Registered protocol family 1
[ 2.728308] Trying to unpack rootfs image as initramfs...
[ 2.772519] Freeing initrd memory: 1092K
[ 2.773582] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776272] audit: initializing netlink subsys (disabled)
```

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[ 2.776331] audit: type=2000 audit(2.769:1): initialized
[ 2.793655] VFS: Disk quotas dquot_6.6.0
[ 2.793828] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.804936] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805193] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805526] fuse init (API version 7.23)
[ 2.810495] bounce: pool size: 64 pages
[ 2.810655] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810670] io scheduler noop registered
[ 2.810682] io scheduler deadline registered
[ 2.810712] io scheduler cfq registered (default)
[ 2.815561] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.818990] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.819028]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819051]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.850810] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850989] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.851003] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.851014] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.851024] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.851437] PCI: bus0: Fast back to back transfers disabled
[ 2.851562] PCI: bus1: Fast back to back transfers enabled
[ 2.851653] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851669] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851683] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851909] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856848] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859319] console [ttyS0] disabled
[ 2.859381] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106312] console [ttyS0] enabled
[ 4.110352] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119702] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129764] [drm] Initialized drm 1.1.0 20060810
[ 4.136063] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312955] brd: module loaded
[ 4.401276] loop: module loaded
[ 4.416018] nand: No NAND device found
[ 4.419790] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429911] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435357] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441215] Creating 7 MTD partitions on "spi32766.0":
[ 4.446397] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.462452] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.478767] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495685] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.512309] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.529659] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.545986] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.563783] libphy: Fixed MDIO Bus: probed
[ 4.568456] tun: Universal TUN/TAP device driver, 1.6
[ 4.573575] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579869] CAN device driver interface
[ 4.584869] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643346] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649472] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
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[ 4.670244] libphy: 48485000.mdio: probed
[ 4.674339] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682642] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691689] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698397] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705417] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713062] PPP generic driver version 2.4.2
[ 4.717558] PPP BSD Compression module registered
[ 4.722288] PPP Deflate Compression module registered
[ 4.727418] PPP MPPE Compression module registered
[ 4.732234] NET: Registered protocol family 24
[ 4.739140] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745764] ehci-pci: EHCI PCI platform driver
[ 4.750275] ehci-platform: EHCI generic platform driver
[ 4.755897] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762129] ohci-pci: OHCI PCI platform driver
[ 4.766756] ohci-platform: OHCI generic platform driver
[ 4.772985] mousedev: PS/2 mouse device common for all mice
[ 4.778784] usbcore: registered new interface driver xpad
[ 4.784294] usbcore: registered new interface driver usb_acecad
[ 4.790282] usbcore: registered new interface driver aiptek
[ 4.795965] usbcore: registered new interface driver gtco
[ 4.801435] usbcore: registered new interface driver hanwang
[ 4.807180] usbcore: registered new interface driver kbtabs
[ 4.813271] i2c /dev entries driver
[ 4.817876] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825016] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831213] gspca_main: v2.14.0 registered
[ 4.839024] device-mapper: uevent: version 1.0.3
[ 4.843826] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.849938] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858450] vip 48970000.vip: VPDMA firmware loaded
[ 4.874722] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880376] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.886843] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018249] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024324] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032556] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040854] usbcore: registered new interface driver usbhid
[ 5.046538] usbhid: USB HID core driver
[ 5.050685] ashmem: initialized
[ 5.059274] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.065462] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074425] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.080001] remoteproc0: 58820000.ipu is available
[ 5.085896] mmc0: new high speed SDIO card at address 0001
[ 5.092610] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101745] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112298] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120692] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
```

```
[ 5.128518] remoteproc0: Falling back to user helper
[ 5.133672] remoteproc1: 55020000.ipu is available
[ 5.138571] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147703] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158253] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166658] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174501] remoteproc1: Falling back to user helper
[ 5.179704] remoteproc2: 40800000.dsp is available
[ 5.184646] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.193906] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204788] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212608] remoteproc3: 41000000.dsp is available
[ 5.217609] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226697] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237234] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249159] remoteproc2: Falling back to user helper
[ 5.265300] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.274166] usbcore: registered new interface driver snd-usb-audio
[ 5.282057] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287392] remoteproc3: Falling back to user helper
[ 5.293641] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299097] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.306981] u32 classifier
[ 5.309700]     input device check on
[ 5.313458]     Actions configured
[ 5.316884] Netfilter messages via NETLINK v0.30.
[ 5.321663] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328337] ctnetlink v0.93: registering with nfnetlink.
[ 5.335339] xt_time: kernel timezone is -0000
[ 5.340104] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345679] arp_tables: (C) 2002 David S. Miller
[ 5.350460] Initializing XFRM netlink socket
[ 5.355423] NET: Registered protocol family 10
[ 5.371002] mip6: Mobile IPv6
[ 5.374058] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.379814] sit: IPv6 over IPv4 tunneling driver
[ 5.385031] NET: Registered protocol family 17
[ 5.389519] NET: Registered protocol family 15
[ 5.394012] can: controller area network core (rev 20120528 abi 9)
[ 5.400278] NET: Registered protocol family 29
[ 5.404821] can: raw protocol (rev 20120528)
[ 5.409116] can: broadcast manager protocol (rev 20120528 t)
[ 5.414832] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420653] NET: Registered protocol family 41
[ 5.425478] omap_voltage_late_init: Voltage driver support not added
[ 5.432461] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438699] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.444956] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
```



```

[ 5.451558] Power Management for TI OMAP4+ devices.
[ 5.456721] Registering SWP/SWPB emulation handler
[ 5.461984] registered taskstats version 1
[ 5.466987] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474568] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492084] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501057] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507076] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513531] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521205] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527472] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533751] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541300] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.549165] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556722] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562667] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569204] hctosys: unable to open rtc device (rtc0)
[ 5.583390] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591323] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.603875] evm_1v8: disabling
[ 5.606949] evm_3v3_sw: disabling
[ 5.610278] aic_dvdd: disabling
[ 5.613520] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619800] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.626312] vmmcw1_fixed: disabling
[ 5.629826] evm_3v3_sd: disabling
[ 5.634074] ALSA device list:
[ 5.637056]   No soundcards found.
[ 5.641354] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648709] Freeing unused kernel memory: 2048K
[ 5.657214] init: init first stage started!
[ 5.661678] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.789698] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.804928] init: Wait for partitions returned after 10001ms
[ 15.810636] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823255] init: Failed to mount required partitions early ...
[ 15.829264] init: panic: rebooting to bootloader
[ 15.835072] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841852] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849605] init: Shutdown timeout: 6000 ms
[ 15.853904] init: terminating init services
[ 15.858127] init: waitid failed: No child processes
[ 15.863047] init: Terminating running services took 27ms with remaining
services:0
[ 15.870725] init: waitid failed: No child processes
[ 15.875678] init: vold not running, skipping vold shutdown
[ 15.981701] init: powerctl_shutdown_time_ms:146:0
[ 15.986464] init: Reboot ending, jumping to kernel
[ 15.991636] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997199] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002742] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008293] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015660] reboot: Restarting system with command 'bootloader'

```

no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...

Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
```

```
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcbk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000323] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000331] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000740] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000754] pid_max: default: 32768 minimum: 301
[ 0.000829] Security Framework initialized
```

```

[ 0.000840] SELinux: Initializing.
[ 0.000915] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000925] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001496] Initializing cgroup subsys io
[ 0.001515] Initializing cgroup subsys memory
[ 0.001541] Initializing cgroup subsys devices
[ 0.001554] Initializing cgroup subsys freezer
[ 0.001566] Initializing cgroup subsys perf_event
[ 0.001577] Initializing cgroup subsys pids
[ 0.001616] CPU: Testing write buffer coherency: ok
[ 0.001865] /cpus/cpu@0 missing clock-frequency property
[ 0.001882] /cpus/cpu@1 missing clock-frequency property
[ 0.001890] CPU0: update cpu_capacity 1024
[ 0.001899] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001944] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080481] CPU1: failed to come online
[ 1.080513] Brought up 1 CPUs
[ 1.080522] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080529] CPU: All CPU(s) started in HYP mode.
[ 1.080534] CPU: Virtualization extensions available.
[ 1.080566] CPU0: update max cpu_capacity 1024
[ 1.120890] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121923] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221311] omap_hwmod: cal: no dt node
[ 1.221322] -----[ cut here ]-----
[ 1.221337] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221344] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221350] Modules linked in:
[ 1.221365] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221373] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221379] Backtrace:
[ 1.221396] [] (dump_backtrace) from [

```

```
(kernel_init+0x10/0x148)
[ 1.221624] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221644] r4:00000000
[ 1.221659] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221664] r5:c0b46388 r4:00000000
[ 1.221690] ---[ end trace dc7b50246217205a ]---
[ 1.310582] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310605] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.324274] pinctrl core: initialized pinctrl subsystem
[ 1.325293] NET: Registered protocol family 16
[ 1.326426] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.370924] cpuidle: using governor ladder
[ 1.430977] cpuidle: using governor menu
[ 1.439955] OMAP GPIO hardware version 0.1
[ 1.444124] GPIO line 161 (radio_rst) hogged as output/low
[ 1.446482] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.463747] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.463761] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.470534] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.470842] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.471116] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.475577] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.475587] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.476074] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.476085] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.476782] OMAP DMA hardware revision 0.0
[ 1.582026] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.583295] edma 43300000.edma: memcpy is disabled
[ 1.588105] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.592844] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.593037] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.593208] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.593384] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.593691] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.593886] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.595938] usbcore: registered new interface driver usbfs
[ 1.595999] usbcore: registered new interface driver hub
[ 1.596115] usbcore: registered new device driver usb
[ 1.597622] palmas 0-0058: IRQ missing: skipping irq request
[ 1.612117] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.621606] smps9: failed to apply 1800000uV constraint(-22)
[ 1.621720] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.622564] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.623297] pcf857x 0-0020: probed
[ 1.623906] pcf857x 0-0021: probed
[ 1.624053] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.642723] omap_i2c 48072000.i2c: controller timed out
[ 2.662751] pcf857x: probe of 1-0026 failed with error -110
[ 2.663310] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.663768] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.682969] pcf857x 3-0021: probed
[ 2.682996] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
```

```
[ 2.683227] media: Linux media interface: v0.10
[ 2.683282] Linux video capture interface: v2.00
[ 2.683324] pps_core: LinuxPPS API ver. 1 registered
[ 2.683331] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.683357] PTP clock support registered
[ 2.683408] EDAC MC: Ver: 3.0.0
[ 2.693367] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.693668] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.694132] Advanced Linux Sound Architecture Driver Initialized.
[ 2.703319] clocksource: Switched to clocksource arch_sys_counter
[ 2.746922] NET: Registered protocol family 2
[ 2.747523] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.747588] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.747714] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.747769] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747800] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.747954] NET: Registered protocol family 1
[ 2.748545] Trying to unpack rootfs image as initramfs...
[ 2.792750] Freeing initrd memory: 1092K
[ 2.793812] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.796516] audit: initializing netlink subsys (disabled)
[ 2.796574] audit: type=2000 audit(2.789:1): initialized
[ 2.814036] VFS: Disk quotas dquot_6.6.0
[ 2.814211] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.825328] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.825580] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.825904] fuse init (API version 7.23)
[ 2.830868] bounce: pool size: 64 pages
[ 2.831025] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.831040] io scheduler noop registered
[ 2.831051] io scheduler deadline registered
[ 2.831081] io scheduler cfq registered (default)
[ 2.835932] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.839244] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.839283]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.839304]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.870959] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.871138] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.871152] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.871163] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.871173] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.871587] PCI: bus0: Fast back to back transfers disabled
[ 2.871711] PCI: bus1: Fast back to back transfers enabled
[ 2.871801] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.871818] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.871831] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.872054] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.876987] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.879441] console [ttyS0] disabled
[ 2.879504] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.126438] console [ttyS0] enabled
[ 4.130477] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.139826] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.149871] [drm] Initialized drm 1.1.0 20060810
```

```
[ 4.156161] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.333022] brd: module loaded
[ 4.421357] loop: module loaded
[ 4.436090] nand: No NAND device found
[ 4.439864] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.449994] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.455438] 7 ofpart partitions found on MTD device spi32766.0
[ 4.461297] Creating 7 MTD partitions on "spi32766.0":
[ 4.466479] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.482542] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.498856] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.515770] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.532397] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.549744] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.566074] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.583873] libphy: Fixed MDIO Bus: probed
[ 4.588545] tun: Universal TUN/TAP device driver, 1.6
[ 4.593664] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.599957] CAN device driver interface
[ 4.604947] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.663357] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.669483] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.690253] libphy: 48485000.mdio: probed
[ 4.694351] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.702653] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.711698] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.718406] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.725420] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.733052] PPP generic driver version 2.4.2
[ 4.737549] PPP BSD Compression module registered
[ 4.742278] PPP Deflate Compression module registered
[ 4.747407] PPP MPPE Compression module registered
[ 4.752223] NET: Registered protocol family 24
[ 4.759133] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.765758] ehci-pci: EHCI PCI platform driver
[ 4.770271] ehci-platform: EHCI generic platform driver
[ 4.775893] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.782123] ohci-pci: OHCI PCI platform driver
[ 4.786765] ohci-platform: OHCI generic platform driver
[ 4.792995] mousedev: PS/2 mouse device common for all mice
[ 4.798795] usbcore: registered new interface driver xpad
[ 4.804306] usbcore: registered new interface driver usb_acecad
[ 4.810293] usbcore: registered new interface driver aiptek
[ 4.815976] usbcore: registered new interface driver gtco
[ 4.821446] usbcore: registered new interface driver hanwang
[ 4.827195] usbcore: registered new interface driver kbtap
[ 4.833285] i2c /dev entries driver
[ 4.837889] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.845018] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.851208] gspca_main: v2.14.0 registered
[ 4.859029] device-mapper: uevent: version 1.0.3
[ 4.863833] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.869947] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.878461] vip 48970000.vip: VPDMA firmware loaded
[ 4.894741] omap_hsmmc 4809c000.mmc: Got CD GPIO
```

```
[ 4.900394] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.906861] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.038261] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.044370] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.052603] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.060893] usbcore: registered new interface driver usbhid
[ 5.066547] usbhid: USB HID core driver
[ 5.070688] ashmem: initialized
[ 5.079289] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.085478] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.094445] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.100022] remoteproc0: 58820000.ipu is available
[ 5.105918] mmc0: new high speed SDIO card at address 0001
[ 5.112632] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.121770] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.132324] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.140720] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.148546] remoteproc0: Falling back to user helper
[ 5.153700] remoteproc1: 55020000.ipu is available
[ 5.158599] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.167730] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.178286] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.186692] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.194536] remoteproc1: Falling back to user helper
[ 5.199740] remoteproc2: 40800000.dsp is available
[ 5.204682] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.213941] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.224826] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.232645] remoteproc3: 41000000.dsp is available
[ 5.237646] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.246734] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.257272] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.269194] remoteproc2: Falling back to user helper
[ 5.285337] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.294201] usbcore: registered new interface driver snd-usb-audio
[ 5.302098] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.307433] remoteproc3: Falling back to user helper
[ 5.313690] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.319147] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.327026] u32 classifier
[ 5.329746]     input device check on
[ 5.333500]     Actions configured
```



```
[ 5.336927] Netfilter messages via NETLINK v0.30.
[ 5.341707] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.348377] ctnetlink v0.93: registering with nfnetlink.
[ 5.355378] xt_time: kernel timezone is -0000
[ 5.360144] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.365720] arp_tables: (C) 2002 David S. Miller
[ 5.370502] Initializing XFRM netlink socket
[ 5.375463] NET: Registered protocol family 10
[ 5.391035] mip6: Mobile IPv6
[ 5.394090] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.399845] sit: IPv6 over IPv4 tunneling driver
[ 5.405068] NET: Registered protocol family 17
[ 5.409556] NET: Registered protocol family 15
[ 5.414049] can: controller area network core (rev 20120528 abi 9)
[ 5.420314] NET: Registered protocol family 29
[ 5.424855] can: raw protocol (rev 20120528)
[ 5.429151] can: broadcast manager protocol (rev 20120528 t)
[ 5.434866] can: netlink gateway (rev 20130117) max_hops=1
[ 5.440681] NET: Registered protocol family 41
[ 5.445511] omap_voltage_late_init: Voltage driver support not added
[ 5.452496] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.458735] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.464994] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.471595] Power Management for TI OMAP4+ devices.
[ 5.476760] Registering SWP/SWPB emulation handler
[ 5.482025] registered taskstats version 1
[ 5.487021] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.494605] dmm 4e000000.dmm: initialized all PAT entries
[ 5.512125] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.521098] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.527117] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.533571] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.541231] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.547499] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.553777] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.561330] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.569195] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.576752] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.582708] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.589244] hctosys: unable to open rtc device (rtc0)
[ 5.603399] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.611331] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.623844] evm_1v8: disabling
[ 5.626921] evm_3v3_sw: disabling
[ 5.630248] aic_dvdd: disabling
[ 5.633483] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.639764] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.646278] vmmcw1_fixed: disabling
[ 5.649791] evm_3v3_sd: disabling
[ 5.654039] ALSA device list:
[ 5.657023]   No soundcards found.
[ 5.661321] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.668682] Freeing unused kernel memory: 2048K
[ 5.677196] init: init first stage started!
[ 5.681659] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.809834] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.824941] init: Wait for partitions returned after 10001ms
[ 15.830650] init: bool android::init::FirstStageMount::InitRequiredDevices():
```

```
partition(s) not found after polling timeout: system, vendor
[ 15.843267] init: Failed to mount required partitions early ...
[ 15.849274] init: panic: rebooting to bootloader
[ 15.855082] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.861863] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.869615] init: Shutdown timeout: 6000 ms
[ 15.873912] init: terminating init services
[ 15.878136] init: waitid failed: No child processes
[ 15.883056] init: Terminating running services took 27ms with remaining
services:0
[ 15.890733] init: waitid failed: No child processes
[ 15.895686] init: vold not running, skipping vold shutdown
[ 16.001709] init: powerctl_shutdown_time_ms:146:0
[ 16.006470] init: Reboot ending, jumping to kernel
[ 16.011643] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.017207] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.022748] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.028298] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.035655] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
```

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feeee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
```

```

[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000325] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000333] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000745] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000759] pid_max: default: 32768 minimum: 301
[ 0.000832] Security Framework initialized
[ 0.000843] SELinux: Initializing.
[ 0.000916] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000926] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001498] Initializing cgroup subsys io
[ 0.001517] Initializing cgroup subsys memory
[ 0.001543] Initializing cgroup subsys devices
[ 0.001556] Initializing cgroup subsys freezer
[ 0.001568] Initializing cgroup subsys perf_event
[ 0.001579] Initializing cgroup subsys pids
[ 0.001618] CPU: Testing write buffer coherency: ok
[ 0.001866] /cpus/cpu@0 missing clock-frequency property
[ 0.001882] /cpus/cpu@1 missing clock-frequency property
[ 0.001891] CPU0: update cpu_capacity 1024
[ 0.001900] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001946] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080473] CPU1: failed to come online
[ 1.080504] Brought up 1 CPUs
[ 1.080513] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080520] CPU: All CPU(s) started in HYP mode.
[ 1.080527] CPU: Virtualization extensions available.
[ 1.080558] CPU0: update max cpu_capacity 1024
[ 1.110861] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111883] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210890] omap_hwmod: cal: no dt node
[ 1.210900] -----[ cut here ]-----
[ 1.210916] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.210923] omap_hwmod: cal: doesn't have mpu register target base
[ 1.210930] Modules linked in:
[ 1.210944] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.210952] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.210958] Backtrace:
[ 1.210975] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)

```

```
[ 1.210982] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.211011] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.211023] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.211030] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.211052] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.211058] r3:c0e065f8 r2:c0e03fe0
[ 1.211069] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.211091] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.211098] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100f8e8
r5:c120e8d0
[ 1.211119] r4:c1217c48
[ 1.211132] [<c100f8e8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.211138] r5:c120bd68 r4:00000001
[ 1.211155] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.211161] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.211181] r4:00000001
[ 1.211194] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.211200] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211220] r4:00000000
[ 1.211234] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211240] r5:c0b46388 r4:00000000
[ 1.211267] ---[ end trace a7bd0dde964dc5a6 ]---
[ 1.299693] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.299716] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304213] pinctrl core: initialized pinctrl subsystem
[ 1.305227] NET: Registered protocol family 16
[ 1.306352] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350891] cpuidle: using governor ladder
[ 1.410940] cpuidle: using governor menu
[ 1.419915] OMAP GPIO hardware version 0.1
[ 1.424079] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426433] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.443768] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443783] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450554] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450864] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451137] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455640] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455651] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456136] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456146] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456844] OMAP DMA hardware revision 0.0
[ 1.562087] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563356] edma 43300000.edma: memcpy is disabled
[ 1.568230] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572968] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573164] omap-iommu 40d02000.mmu: 40d02000.mmu registered
```

```
[ 1.573332] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573507] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573812] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.574004] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.576059] usbcore: registered new interface driver usbfs
[ 1.576119] usbcore: registered new interface driver hub
[ 1.576234] usbcore: registered new device driver usb
[ 1.577742] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592234] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601755] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601868] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602679] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603408] pcf857x 0-0020: probed
[ 1.604015] pcf857x 0-0021: probed
[ 1.604161] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622848] omap_i2c 48072000.i2c: controller timed out
[ 2.642876] pcf857x: probe of 1-0026 failed with error -110
[ 2.643436] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643890] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.663096] pcf857x 3-0021: probed
[ 2.663123] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663353] media: Linux media interface: v0.10
[ 2.663408] Linux video capture interface: v2.00
[ 2.663450] pps_core: LinuxPPS API ver. 1 registered
[ 2.663458] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663484] PTP clock support registered
[ 2.663534] EDAC MC: Ver: 3.0.0
[ 2.673497] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673797] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674266] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683447] clocksource: Switched to clocksource arch_sys_counter
[ 2.726824] NET: Registered protocol family 2
[ 2.727423] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727488] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727613] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727668] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727699] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727854] NET: Registered protocol family 1
[ 2.728441] Trying to unpack rootfs image as initramfs...
[ 2.772614] Freeing initrd memory: 1092K
[ 2.773673] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776372] audit: initializing netlink subsys (disabled)
[ 2.776429] audit: type=2000 audit(2.769:1): initialized
[ 2.793866] VFS: Disk quotas dquot_6.6.0
[ 2.794038] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.805157] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805411] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805737] fuse init (API version 7.23)
[ 2.810701] bounce: pool size: 64 pages
[ 2.810863] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810878] io scheduler noop registered
[ 2.810890] io scheduler deadline registered
[ 2.810922] io scheduler cfq registered (default)
[ 2.815779] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819106] PCI host bridge /ocp/axi0/pcie_rc@51000000 ranges:
```

```
[ 2.819145] IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819167] MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.850672] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850855] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850870] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850880] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850890] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.851307] PCI: bus0: Fast back to back transfers disabled
[ 2.851430] PCI: bus1: Fast back to back transfers enabled
[ 2.851519] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851535] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851547] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851775] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856705] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859166] console [ttyS0] disabled
[ 2.859227] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106106] console [ttyS0] enabled
[ 4.110141] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119490] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129525] [drm] Initialized drm 1.1.0 20060810
[ 4.135832] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312719] brd: module loaded
[ 4.401052] loop: module loaded
[ 4.415806] nand: No NAND device found
[ 4.419580] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429721] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435166] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441024] Creating 7 MTD partitions on "spi32766.0":
[ 4.446205] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.462261] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.478575] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495493] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.512113] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.529462] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.545789] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.563574] libphy: Fixed MDIO Bus: probed
[ 4.568252] tun: Universal TUN/TAP device driver, 1.6
[ 4.573324] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579663] CAN device driver interface
[ 4.584658] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643484] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649610] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670203] libphy: 48485000.mdio: probed
[ 4.674297] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682600] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691650] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698355] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705379] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713021] PPP generic driver version 2.4.2
[ 4.717518] PPP BSD Compression module registered
[ 4.722247] PPP Deflate Compression module registered
[ 4.727375] PPP MPPE Compression module registered
[ 4.732191] NET: Registered protocol family 24
```

```
[ 4.739104] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745727] ehci-pci: EHCI PCI platform driver
[ 4.750239] ehci-platform: EHCI generic platform driver
[ 4.755860] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762091] ohci-pci: OHCI PCI platform driver
[ 4.766716] ohci-platform: OHCI generic platform driver
[ 4.772948] mousedev: PS/2 mouse device common for all mice
[ 4.778753] usbcore: registered new interface driver xpad
[ 4.784263] usbcore: registered new interface driver usb_acecad
[ 4.790251] usbcore: registered new interface driver aiptek
[ 4.795933] usbcore: registered new interface driver gtco
[ 4.801402] usbcore: registered new interface driver hanwang
[ 4.807148] usbcore: registered new interface driver kbtabs
[ 4.813233] i2c /dev entries driver
[ 4.817844] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.824977] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831173] gspca_main: v2.14.0 registered
[ 4.838989] device-mapper: uevent: version 1.0.3
[ 4.843795] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.849907] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858419] vip 48970000.vip: VPDMA firmware loaded
[ 4.874821] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880479] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.886946] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018396] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024471] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032704] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.041012] usbcore: registered new interface driver usbhid
[ 5.046698] usbhid: USB HID core driver
[ 5.050842] ashmem: initialized
[ 5.059434] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.065625] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074575] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.080153] remoteproc0: 58820000.ipu is available
[ 5.086047] mmc0: new high speed SDIO card at address 0001
[ 5.092761] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101897] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112450] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120850] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128675] remoteproc0: Falling back to user helper
[ 5.133832] remoteproc1: 55020000.ipu is available
[ 5.138730] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147863] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158414] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166817] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174662] remoteproc1: Falling back to user helper
[ 5.179865] remoteproc2: 40800000.dsp is available
[ 5.184807] remoteproc2: Note: remoteproc is still under development and
```


considered experimental.

```
[ 5.194064] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204949] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212769] remoteproc3: 41000000.dsp is available
[ 5.217771] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226859] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237399] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249322] remoteproc2: Falling back to user helper
[ 5.265464] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.274330] usbcore: registered new interface driver snd-usb-audio
[ 5.282228] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.287566] remoteproc3: Falling back to user helper
[ 5.293825] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.299279] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.307163] u32 classifier
[ 5.309883]     input device check on
[ 5.313640]     Actions configured
[ 5.317067] Netfilter messages via NETLINK v0.30.
[ 5.321848] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.328519] ctnetlink v0.93: registering with nfnetlink.
[ 5.335521] xt_time: kernel timezone is -0000
[ 5.340285] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.345861] arp_tables: (C) 2002 David S. Miller
[ 5.350642] Initializing XFRM netlink socket
[ 5.355601] NET: Registered protocol family 10
[ 5.371175] mip6: Mobile IPv6
[ 5.374231] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.379989] sit: IPv6 over IPv4 tunneling driver
[ 5.385212] NET: Registered protocol family 17
[ 5.389697] NET: Registered protocol family 15
[ 5.394191] can: controller area network core (rev 20120528 abi 9)
[ 5.400455] NET: Registered protocol family 29
[ 5.404997] can: raw protocol (rev 20120528)
[ 5.409291] can: broadcast manager protocol (rev 20120528 t)
[ 5.415009] can: netlink gateway (rev 20130117) max_hops=1
[ 5.420827] NET: Registered protocol family 41
[ 5.425651] omap_voltage_late_init: Voltage driver support not added
[ 5.432631] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.438869] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.445130] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.451734] Power Management for TI OMAP4+ devices.
[ 5.456894] Registering SWP/SWPB emulation handler
[ 5.462159] registered taskstats version 1
[ 5.467160] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.474741] dmm 4e000000.dmm: initialized all PAT entries
[ 5.492263] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.501225] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.507245] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.513700] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.521378] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.527643] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.533922] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.541462] omapdss_dss 58000000.dss: master bind failed: -517
```

```
[ 5.549331] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.556876] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.562828] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.569368] hctosys: unable to open rtc device (rtc0)
[ 5.583530] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.591466] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.604076] evm_1v8: disabling
[ 5.607151] evm_3v3_sw: disabling
[ 5.610479] aic_dvdd: disabling
[ 5.613717] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619998] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.626514] vmmcwl_fixed: disabling
[ 5.630028] evm_3v3_sd: disabling
[ 5.634269] ALSA device list:
[ 5.637253]   No soundcards found.
[ 5.641567] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.648921] Freeing unused kernel memory: 2048K
[ 5.657425] init: init first stage started!
[ 5.661892] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.790260] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.805065] init: Wait for partitions returned after 10000ms
[ 15.810774] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.823393] init: Failed to mount required partitions early ...
[ 15.829402] init: panic: rebooting to bootloader
[ 15.835213] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.841994] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.849746] init: Shutdown timeout: 6000 ms
[ 15.854044] init: terminating init services
[ 15.858268] init: waitid failed: No child processes
[ 15.863187] init: Terminating running services took 27ms with remaining
services:0
[ 15.870862] init: waitid failed: No child processes
[ 15.875814] init: vold not running, skipping vold shutdown
[ 15.981833] init: powerctl_shutdown_time_ms:146:0
[ 15.986594] init: Reboot ending, jumping to kernel
[ 15.991762] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.997329] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.002871] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.008420] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.015778] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
```

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
```

```

[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc   : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem    : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap    : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules   : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]     .text    : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init    : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data    : 0xc1200000 - 0xc129c1e4   (  625 kB)
[ 0.000000]     .bss    : 0xc129c1e4 - 0xc1343628   (  670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000326] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000335] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000749] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000763] pid_max: default: 32768 minimum: 301
[ 0.000837] Security Framework initialized
[ 0.000848] SELinux: Initializing.
[ 0.000922] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001502] Initializing cgroup subsys io
[ 0.001520] Initializing cgroup subsys memory
[ 0.001546] Initializing cgroup subsys devices
[ 0.001560] Initializing cgroup subsys freezer
[ 0.001571] Initializing cgroup subsys perf_event
[ 0.001582] Initializing cgroup subsys pids
[ 0.001621] CPU: Testing write buffer coherency: ok
[ 0.001867] /cpus/cpu@0 missing clock-frequency property
[ 0.001884] /cpus/cpu@1 missing clock-frequency property
[ 0.001893] CPU0: update cpu_capacity 1024

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[ 0.001902] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001948] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080480] CPU1: failed to come online
[ 1.080510] Brought up 1 CPUs
[ 1.080519] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080526] CPU: All CPU(s) started in HYP mode.
[ 1.080532] CPU: Virtualization extensions available.
[ 1.080564] CPU0: update max cpu_capacity 1024
[ 1.110870] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111893] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.211603] omap_hwmod: cal: no dt node
[ 1.211614] -----[ cut here ]-----
[ 1.211629] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211636] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211643] Modules linked in:
[ 1.211657] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211664] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211671] Backtrace:
[ 1.211687] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.211694] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.211722] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.211734] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.211740] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.211763] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.211769] r3:c0e065f8 r2:c0e03fe0
[ 1.211780] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.211801] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.211808] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.211829] r4:c1217c48
[ 1.211843] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.211849] r5:c120bd68 r4:00000001
[ 1.211866] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.211872] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.211893] r4:00000001
[ 1.211906] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.211912] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211931] r4:00000000
[ 1.211946] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211952] r5:c0b46388 r4:00000000
[ 1.211979] ---[ end trace dc544f9509f8f4c8 ]---
[ 1.300392] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.300414] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304186] pinctrl core: initialized pinctrl subsystem
[ 1.305203] NET: Registered protocol family 16

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[ 1.306328] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350885] cpuidle: using governor ladder
[ 1.410936] cpuidle: using governor menu
[ 1.419897] OMAP GPIO hardware version 0.1
[ 1.424078] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426411] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.443757] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443772] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450537] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450848] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451122] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455599] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455610] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456098] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456109] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456808] OMAP DMA hardware revision 0.0
[ 1.562006] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563277] edma 43300000.edma: memcpy is disabled
[ 1.568112] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572847] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573042] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573209] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573384] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573690] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573883] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575950] usbcore: registered new interface driver usbfs
[ 1.576010] usbcore: registered new interface driver hub
[ 1.576126] usbcore: registered new device driver usb
[ 1.577642] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592117] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601619] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601731] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602576] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603304] pcf857x 0-0020: probed
[ 1.603912] pcf857x 0-0021: probed
[ 1.604059] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622737] omap_i2c 48072000.i2c: controller timed out
[ 2.642765] pcf857x: probe of 1-0026 failed with error -110
[ 2.643326] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643778] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662990] pcf857x 3-0021: probed
[ 2.663017] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663252] media: Linux media interface: v0.10
[ 2.663306] Linux video capture interface: v2.00
[ 2.663349] pps_core: LinuxPPS API ver. 1 registered
[ 2.663357] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663382] PTP clock support registered
[ 2.663434] EDAC MC: Ver: 3.0.0
[ 2.673385] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673683] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674149] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683340] clocksource: Switched to clocksource arch_sys_counter
[ 2.726727] NET: Registered protocol family 2
[ 2.727330] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
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[ 2.727395] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727520] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727576] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727607] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727762] NET: Registered protocol family 1
[ 2.728353] Trying to unpack rootfs image as initramfs...
[ 2.772582] Freeing initrd memory: 1092K
[ 2.773649] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776352] audit: initializing netlink subsys (disabled)
[ 2.776411] audit: type=2000 audit(2.769:1): initialized
[ 2.793810] VFS: Disk quotas dquot_6.6.0
[ 2.793980] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.805096] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805351] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805679] fuse init (API version 7.23)
[ 2.810648] bounce: pool size: 64 pages
[ 2.810809] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810824] io scheduler noop registered
[ 2.810835] io scheduler deadline registered
[ 2.810866] io scheduler cfq registered (default)
[ 2.815712] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819082] PCI host bridge /ocp/axi0@/pcie_rc@51000000 ranges:
[ 2.819119]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819141]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.850730] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850910] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850924] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850934] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850944] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.851356] PCI: bus0: Fast back to back transfers disabled
[ 2.851481] PCI: bus1: Fast back to back transfers enabled
[ 2.851573] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851588] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851601] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851825] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856745] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859203] console [ttyS0] disabled
[ 2.859265] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106130] console [ttyS0] enabled
[ 4.110172] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119519] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129574] [drm] Initialized drm 1.1.0 20060810
[ 4.135882] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312781] brd: module loaded
[ 4.401104] loop: module loaded
[ 4.415858] nand: No NAND device found
[ 4.419632] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429760] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.435203] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441062] Creating 7 MTD partitions on "spi32766.0":
[ 4.446244] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.462308] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.478620] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495537] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.512161] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
```

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[ 4.529510] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.545838] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.563629] libphy: Fixed MDIO Bus: probed
[ 4.568302] tun: Universal TUN/TAP device driver, 1.6
[ 4.573420] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579715] CAN device driver interface
[ 4.584702] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643379] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649504] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670287] libphy: 48485000.mdio: probed
[ 4.674384] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682687] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691737] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698444] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705468] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713108] PPP generic driver version 2.4.2
[ 4.717603] PPP BSD Compression module registered
[ 4.722331] PPP Deflate Compression module registered
[ 4.727460] PPP MPPE Compression module registered
[ 4.732277] NET: Registered protocol family 24
[ 4.739183] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745803] ehci-pci: EHCI PCI platform driver
[ 4.750313] ehci-platform: EHCI generic platform driver
[ 4.755936] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762169] ohci-pci: OHCI PCI platform driver
[ 4.766803] ohci-platform: OHCI generic platform driver
[ 4.773032] mousedev: PS/2 mouse device common for all mice
[ 4.778833] usbcore: registered new interface driver xpad
[ 4.784344] usbcore: registered new interface driver usb_acecad
[ 4.790333] usbcore: registered new interface driver aiptek
[ 4.796016] usbcore: registered new interface driver gtco
[ 4.801485] usbcore: registered new interface driver hanwang
[ 4.807232] usbcore: registered new interface driver kbtap
[ 4.813320] i2c /dev entries driver
[ 4.817927] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825066] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831253] gspca_main: v2.14.0 registered
[ 4.839056] device-mapper: uevent: version 1.0.3
[ 4.843859] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.849975] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858487] vip 48970000.vip: VPDMA firmware loaded
[ 4.874765] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880416] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.886884] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018290] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024365] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032599] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040888] usbcore: registered new interface driver usbhid
[ 5.046569] usbhid: USB HID core driver
[ 5.050716] ashmem: initialized
[ 5.067420] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.073570] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.081432] remoteproc0: 58820000.ipu is available
```



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[ 5.086383] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.095426] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.106000] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.114412] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.122220] remoteproc0: Falling back to user helper
[ 5.127400] remoteproc1: 55020000.ipu is available
[ 5.132420] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.141478] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.152060] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.160491] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.168333] remoteproc1: Falling back to user helper
[ 5.173511] remoteproc2: 40800000.dsp is available
[ 5.178526] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.187585] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.199157] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.205162] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212987] remoteproc3: 41000000.dsp is available
[ 5.218986] mmc0: new high speed SDIO card at address 0001
[ 5.224539] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.233644] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.241856] remoteproc2: Falling back to user helper
[ 5.247301] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.269070] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.277938] usbcore: registered new interface driver snd-usb-audio
[ 5.285891] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.291527] remoteproc3: Falling back to user helper
[ 5.297367] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.302821] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.309606] u32 classifier
[ 5.312326]     input device check on
[ 5.316069]     Actions configured
[ 5.319555] Netfilter messages via NETLINK v0.30.
[ 5.324386] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.331007] ctnetlink v0.93: registering with nfnetlink.
[ 5.338009] xt_time: kernel timezone is -0000
[ 5.342771] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.348347] arp_tables: (C) 2002 David S. Miller
[ 5.353131] Initializing XFRM netlink socket
[ 5.358089] NET: Registered protocol family 10
[ 5.373693] mip6: Mobile IPv6
[ 5.376701] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.382476] sit: IPv6 over IPv4 tunneling driver
[ 5.387704] NET: Registered protocol family 17
[ 5.392192] NET: Registered protocol family 15
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[ 5.396686] can: controller area network core (rev 20120528 abi 9)
[ 5.402948] NET: Registered protocol family 29
[ 5.407448] can: raw protocol (rev 20120528)
[ 5.411741] can: broadcast manager protocol (rev 20120528 t)
[ 5.417455] can: netlink gateway (rev 20130117) max_hops=1
[ 5.423273] NET: Registered protocol family 41
[ 5.428102] omap_voltage_late_init: Voltage driver support not added
[ 5.435112] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.441321] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.447590] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.454210] Power Management for TI OMAP4+ devices.
[ 5.459352] Registering SWP/SWPB emulation handler
[ 5.464637] registered taskstats version 1
[ 5.469611] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.477197] dmm 4e000000.dmm: initialized all PAT entries
[ 5.494744] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.503717] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.509701] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.516156] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.523892] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.530102] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.536387] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.543971] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.551781] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.559330] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.564109] hctosys: unable to open rtc device (rtc0)
[ 5.574926] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.581314] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.598836] evm_1v8: disabling
[ 5.601914] evm_3v3_sw: disabling
[ 5.606886] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613098] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.619385] aic_dvdd: disabling
[ 5.622541] vmmcwl_fixed: disabling
[ 5.626144] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.633173] evm_3v3_sd: disabling
[ 5.636782] ALSA device list:
[ 5.639763]   No soundcards found.
[ 5.644111] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.652405] Freeing unused kernel memory: 2048K
[ 5.659861] init: init first stage started!
[ 5.664403] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.792077] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.806962] init: Wait for partitions returned after 10000ms
[ 15.812670] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.825289] init: Failed to mount required partitions early ...
[ 15.831248] init: panic: rebooting to bootloader
[ 15.837063] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.843887] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.851595] init: Shutdown timeout: 6000 ms
[ 15.855892] init: terminating init services
[ 15.860116] init: waitid failed: No child processes
[ 15.865085] init: Terminating running services took 28ms with remaining
services:0
[ 15.872702] init: waitid failed: No child processes
[ 15.877667] init: vold not running, skipping vold shutdown
```

```
[ 15.983741] init: powerctl_shutdown_time_ms:146:0
[ 15.988480] init: Reboot ending, jumping to kernel
[ 15.993672] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 15.999218] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.004778] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.010312] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.017661] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
```

```
[ 0.000000] CPU: ARMV7 Processor [412fc0f2] revision 2 (ARMV7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   (  625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   (  670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
```

```
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000318] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000325] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000739] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000752] pid_max: default: 32768 minimum: 301
[ 0.000828] Security Framework initialized
[ 0.000839] SELinux: Initializing.
[ 0.000911] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000921] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001494] Initializing cgroup subsys io
[ 0.001512] Initializing cgroup subsys memory
[ 0.001538] Initializing cgroup subsys devices
[ 0.001552] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001575] Initializing cgroup subsys pids
[ 0.001613] CPU: Testing write buffer coherency: ok
[ 0.001861] /cpus/cpu@0 missing clock-frequency property
[ 0.001878] /cpus/cpu@1 missing clock-frequency property
[ 0.001887] CPU0: update cpu_capacity 1024
[ 0.001895] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080490] CPU1: failed to come online
[ 1.080520] Brought up 1 CPUs
[ 1.080529] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080536] CPU: All CPU(s) started in HYP mode.
[ 1.080542] CPU: Virtualization extensions available.
[ 1.080574] CPU0: update max cpu_capacity 1024
[ 1.120895] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121922] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220946] omap_hwmod: cal: no dt node
[ 1.220958] -----[ cut here ]-----
[ 1.220973] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220980] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220987] Modules linked in:
[ 1.221001] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221009] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221016] Backtrace:
[ 1.221032] [
```

```
[ 1.221176] r4:c1217c48
[ 1.221189] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221195] r5:c120bd68 r4:00000001
[ 1.221212] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221218] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221239] r4:00000001
[ 1.221252] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221258] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221278] r4:00000000
[ 1.221292] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221298] r5:c0b46388 r4:00000000
[ 1.221324] ---[ end trace d2f4412eb7aaefbf ]---
[ 1.310033] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310056] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314273] pinctrl core: initialized pinctrl subsystem
[ 1.315288] NET: Registered protocol family 16
[ 1.316423] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360919] cpuidle: using governor ladder
[ 1.420971] cpuidle: using governor menu
[ 1.429932] OMAP GPIO hardware version 0.1
[ 1.434115] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436476] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453779] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453794] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460567] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460877] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461154] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465637] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465649] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466137] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466147] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466841] OMAP DMA hardware revision 0.0
[ 1.572041] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573313] edma 43300000.edma: memcpy is disabled
[ 1.578149] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582901] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583097] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583266] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583442] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583750] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583941] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585996] usbcore: registered new interface driver usbfs
[ 1.586056] usbcore: registered new interface driver hub
[ 1.586170] usbcore: registered new device driver usb
[ 1.587677] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602168] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611653] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611763] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612610] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
```

```
failed with error -22
[ 1.613350] pcf857x 0-0020: probed
[ 1.613959] pcf857x 0-0021: probed
[ 1.614106] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632782] omap_i2c 48072000.i2c: controller timed out
[ 2.652811] pcf857x: probe of 1-0026 failed with error -110
[ 2.653372] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653828] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673027] pcf857x 3-0021: probed
[ 2.673055] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673282] media: Linux media interface: v0.10
[ 2.673336] Linux video capture interface: v2.00
[ 2.673379] pps_core: LinuxPPS API ver. 1 registered
[ 2.673386] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673412] PTP clock support registered
[ 2.673463] EDAC MC: Ver: 3.0.0
[ 2.683428] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683726] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684191] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693379] clocksource: Switched to clocksource arch_sys_counter
[ 2.736494] NET: Registered protocol family 2
[ 2.737098] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737163] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737288] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737343] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737374] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737529] NET: Registered protocol family 1
[ 2.738119] Trying to unpack rootfs image as initramfs...
[ 2.782332] Freeing initrd memory: 1092K
[ 2.783265] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786097] audit: initializing netlink subsys (disabled)
[ 2.786155] audit: type=2000 audit(2.779:1): initialized
[ 2.803533] VFS: Disk quotas dquot_6.6.0
[ 2.803705] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814817] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815072] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815396] fuse init (API version 7.23)
[ 2.820365] bounce: pool size: 64 pages
[ 2.820524] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820538] io scheduler noop registered
[ 2.820549] io scheduler deadline registered
[ 2.820582] io scheduler cfq registered (default)
[ 2.825442] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828789] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828827]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828849]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860478] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860656] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860669] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860680] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860689] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.861105] PCI: bus0: Fast back to back transfers disabled
[ 2.861228] PCI: bus1: Fast back to back transfers enabled
[ 2.861320] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861336] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861349] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861573] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
```

```
[ 2.866513] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868958] console [ttyS0] disabled
[ 2.869020] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115961] console [ttyS0] enabled
[ 4.119999] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129347] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139398] [drm] Initialized drm 1.1.0 20060810
[ 4.145679] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322573] brd: module loaded
[ 4.410901] loop: module loaded
[ 4.425638] nand: No NAND device found
[ 4.429412] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439535] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444980] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450838] Creating 7 MTD partitions on "spi32766.0":
[ 4.456020] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472075] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488386] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505303] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.521920] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539261] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555585] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573335] libphy: Fixed MDIO Bus: probed
[ 4.578062] tun: Universal TUN/TAP device driver, 1.6
[ 4.583135] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589448] CAN device driver interface
[ 4.594441] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653417] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659544] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680519] libphy: 48485000.mdio: probed
[ 4.684614] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692917] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701966] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708673] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715691] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723331] PPP generic driver version 2.4.2
[ 4.727830] PPP BSD Compression module registered
[ 4.732558] PPP Deflate Compression module registered
[ 4.737688] PPP MPPE Compression module registered
[ 4.742505] NET: Registered protocol family 24
[ 4.749423] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.756048] ehci-pci: EHCI PCI platform driver
[ 4.760560] ehci-platform: EHCI generic platform driver
[ 4.766184] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772415] ohci-pci: OHCI PCI platform driver
[ 4.777028] ohci-platform: OHCI generic platform driver
[ 4.783258] mousedev: PS/2 mouse device common for all mice
[ 4.789060] usbcore: registered new interface driver xpad
[ 4.794572] usbcore: registered new interface driver usb_acecad
[ 4.800560] usbcore: registered new interface driver aiptek
[ 4.806242] usbcore: registered new interface driver gtco
[ 4.811712] usbcore: registered new interface driver hanwang
[ 4.817458] usbcore: registered new interface driver kbtap
```



```
[ 4.823571] i2c /dev entries driver
[ 4.828162] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835293] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841492] gspca_main: v2.14.0 registered
[ 4.849290] device-mapper: uevent: version 1.0.3
[ 4.854094] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860206] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868719] vip 48970000.vip: VPDMA firmware loaded
[ 4.885004] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890656] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897123] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028329] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034405] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042637] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051002] usbcore: registered new interface driver usbhid
[ 5.056651] usbhid: USB HID core driver
[ 5.060795] ashmem: initialized
[ 5.069392] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076569] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082234] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091029] mmc0: new high speed SDIO card at address 0001
[ 5.096613] remoteproc0: 58820000.ipu is available
[ 5.101512] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111843] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122401] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130795] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138619] remoteproc0: Falling back to user helper
[ 5.143772] remoteproc1: 55020000.ipu is available
[ 5.148670] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157800] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168354] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176757] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184602] remoteproc1: Falling back to user helper
[ 5.189806] remoteproc2: 40800000.dsp is available
[ 5.194748] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204006] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214887] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222707] remoteproc3: 41000000.dsp is available
[ 5.227708] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236798] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247336] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259249] remoteproc2: Falling back to user helper
```

```
[ 5.275388] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284247] usbcore: registered new interface driver snd-usb-audio
[ 5.292139] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297476] remoteproc3: Falling back to user helper
[ 5.303726] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309181] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317063] u32 classifier
[ 5.319783]     input device check on
[ 5.323540]     Actions configured
[ 5.326967] Netfilter messages via NETLINK v0.30.
[ 5.331748] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338419] ctnetlink v0.93: registering with nfnetlink.
[ 5.345415] xt_time: kernel timezone is -0000
[ 5.350178] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355753] arp_tables: (C) 2002 David S. Miller
[ 5.360532] Initializing XFRM netlink socket
[ 5.365488] NET: Registered protocol family 10
[ 5.381069] mip6: Mobile IPv6
[ 5.384123] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389877] sit: IPv6 over IPv4 tunneling driver
[ 5.395103] NET: Registered protocol family 17
[ 5.399590] NET: Registered protocol family 15
[ 5.404084] can: controller area network core (rev 20120528 abi 9)
[ 5.410346] NET: Registered protocol family 29
[ 5.414889] can: raw protocol (rev 20120528)
[ 5.419185] can: broadcast manager protocol (rev 20120528 t)
[ 5.424900] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430723] NET: Registered protocol family 41
[ 5.435553] omap_voltage_late_init: Voltage driver support not added
[ 5.442542] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448783] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455041] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461643] Power Management for TI OMAP4+ devices.
[ 5.466802] Registering SWP/SWPB emulation handler
[ 5.472069] registered taskstats version 1
[ 5.477076] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484659] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502178] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511167] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517185] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523641] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531309] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537575] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543854] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551399] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559257] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566814] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572777] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579317] hctosys: unable to open rtc device (rtc0)
[ 5.593459] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601382] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614001] evm_1v8: disabling
[ 5.617077] evm_3v3_sw: disabling
[ 5.620405] aic_dvdd: disabling
[ 5.623646] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629930] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636446] vmmcw1_fixed: disabling
[ 5.639962] evm_3v3_sd: disabling
```

```
[ 5.644206] ALSA device list:
[ 5.647189]   No soundcards found.
[ 5.651498] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658855] Freeing unused kernel memory: 2048K
[ 5.667376] init: init first stage started!
[ 5.671843] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799839] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814999] init: Wait for partitions returned after 10001ms
[ 15.820708] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833325] init: Failed to mount required partitions early ...
[ 15.839334] init: panic: rebooting to bootloader
[ 15.845144] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851924] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859676] init: Shutdown timeout: 6000 ms
[ 15.863973] init: terminating init services
[ 15.868196] init: waitid failed: No child processes
[ 15.873116] init: Terminating running services took 27ms with remaining
services:0
[ 15.880792] init: waitid failed: No child processes
[ 15.885744] init: vold not running, skipping vold shutdown
[ 15.991769] init: powerctl_shutdown_time_ms:146:0
[ 15.996530] init: Reboot ending, jumping to kernel
[ 16.001700] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007263] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012806] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018356] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025720] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
```

```

[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc   : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem    : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap     : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules   : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]         .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]         .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]         .data   : 0xc1200000 - 0xc129c1e4   (  625 kB)
[ 0.000000]         .bss    : 0xc129c1e4 - 0xc1343628   (  670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000319] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000327] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000738] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000752] pid_max: default: 32768 minimum: 301
[ 0.000826] Security Framework initialized
[ 0.000837] SELinux: Initializing.
[ 0.000913] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000922] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001494] Initializing cgroup subsys io
[ 0.001513] Initializing cgroup subsys memory
[ 0.001539] Initializing cgroup subsys devices
[ 0.001552] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001575] Initializing cgroup subsys pids
[ 0.001614] CPU: Testing write buffer coherency: ok
[ 0.001860] /cpus/cpu@0 missing clock-frequency property
[ 0.001878] /cpus/cpu@1 missing clock-frequency property
[ 0.001887] CPU0: update cpu_capacity 1024
[ 0.001895] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001941] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080471] CPU1: failed to come online
[ 1.080502] Brought up 1 CPUs
[ 1.080511] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080518] CPU: All CPU(s) started in HYP mode.
[ 1.080524] CPU: Virtualization extensions available.
[ 1.080556] CPU0: update max cpu_capacity 1024
[ 1.110862] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111893] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.211860] omap_hwmod: cal: no dt node
[ 1.211871] -----[ cut here ]-----

```

```
[ 1.211887] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211894] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211900] Modules linked in:
[ 1.211915] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211923] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211930] Backtrace:
[ 1.211947] [
```

```
[ 1.465703] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466194] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466204] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466903] OMAP DMA hardware revision 0.0
[ 1.571966] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573230] edma 43300000.edma: memcpy is disabled
[ 1.578067] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582791] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.582987] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583157] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583332] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583635] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583828] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585888] usbcore: registered new interface driver usbfs
[ 1.585949] usbcore: registered new interface driver hub
[ 1.586068] usbcore: registered new device driver usb
[ 1.587578] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602061] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611552] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611665] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612515] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613246] pcf857x 0-0020: probed
[ 1.613861] pcf857x 0-0021: probed
[ 1.614009] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632662] omap_i2c 48072000.i2c: controller timed out
[ 2.652691] pcf857x: probe of 1-0026 failed with error -110
[ 2.653252] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653701] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672909] pcf857x 3-0021: probed
[ 2.672937] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673167] media: Linux media interface: v0.10
[ 2.673222] Linux video capture interface: v2.00
[ 2.673263] pps_core: LinuxPPS API ver. 1 registered
[ 2.673271] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673296] PTP clock support registered
[ 2.673346] EDAC MC: Ver: 3.0.0
[ 2.683309] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683607] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684073] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693261] clocksource: Switched to clocksource arch_sys_counter
[ 2.736367] NET: Registered protocol family 2
[ 2.736973] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737038] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737164] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737217] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737248] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737404] NET: Registered protocol family 1
[ 2.737992] Trying to unpack rootfs image as initramfs...
[ 2.782223] Freeing initrd memory: 1092K
[ 2.783160] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.785996] audit: initializing netlink subsys (disabled)
[ 2.786055] audit: type=2000 audit(2.779:1): initialized
[ 2.803450] VFS: Disk quotas dquot_6.6.0
[ 2.803623] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
```

```
[ 2.814729] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814982] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815311] fuse init (API version 7.23)
[ 2.820293] bounce: pool size: 64 pages
[ 2.820450] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820465] io scheduler noop registered
[ 2.820476] io scheduler deadline registered
[ 2.820509] io scheduler cfq registered (default)
[ 2.825370] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828703] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828742]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828764]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860319] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860501] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860516] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860527] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860537] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.860951] PCI: bus0: Fast back to back transfers disabled
[ 2.861073] PCI: bus1: Fast back to back transfers enabled
[ 2.861164] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861180] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861193] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861418] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866341] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868803] console [ttyS0] disabled
[ 2.868865] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115735] console [ttyS0] enabled
[ 4.119770] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129122] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139176] [drm] Initialized drm 1.1.0 20060810
[ 4.145483] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322384] brd: module loaded
[ 4.410732] loop: module loaded
[ 4.425476] nand: No NAND device found
[ 4.429249] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439360] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444806] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450663] Creating 7 MTD partitions on "spi32766.0":
[ 4.455844] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.471905] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488214] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505133] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521748] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539097] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555420] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573170] libphy: Fixed MDIO Bus: probed
[ 4.577906] tun: Universal TUN/TAP device driver, 1.6
[ 4.582979] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589290] CAN device driver interface
[ 4.594282] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653299] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659424] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680183] libphy: 48485000.mdio: probed
[ 4.684280] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
```



```
[ 4.692585] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701634] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708341] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715364] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723002] PPP generic driver version 2.4.2
[ 4.727499] PPP BSD Compression module registered
[ 4.732228] PPP Deflate Compression module registered
[ 4.737360] PPP MPPE Compression module registered
[ 4.742175] NET: Registered protocol family 24
[ 4.749086] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755711] ehci-pci: EHCI PCI platform driver
[ 4.760223] ehci-platform: EHCI generic platform driver
[ 4.765845] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772075] ohci-pci: OHCI PCI platform driver
[ 4.776699] ohci-platform: OHCI generic platform driver
[ 4.782926] mousedev: PS/2 mouse device common for all mice
[ 4.788726] usbcore: registered new interface driver xpad
[ 4.794238] usbcore: registered new interface driver usb_acecad
[ 4.800225] usbcore: registered new interface driver aiptek
[ 4.805909] usbcore: registered new interface driver gtco
[ 4.811379] usbcore: registered new interface driver hanwang
[ 4.817126] usbcore: registered new interface driver kbtabs
[ 4.823211] i2c /dev entries driver
[ 4.827812] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834945] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841135] gspca_main: v2.14.0 registered
[ 4.848947] device-mapper: uevent: version 1.0.3
[ 4.853751] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859866] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868380] vip 48970000.vip: VPDMA firmware loaded
[ 4.884672] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890327] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896796] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028201] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034278] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042509] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050831] usbcore: registered new interface driver usbhid
[ 5.056482] usbhid: USB HID core driver
[ 5.060628] ashmem: initialized
[ 5.069223] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075419] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084383] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.089964] remoteproc0: 58820000.ipu is available
[ 5.095857] mmc0: new high speed SDIO card at address 0001
[ 5.102573] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111707] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122261] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130660] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138485] remoteproc0: Falling back to user helper
[ 5.143639] remoteproc1: 55020000.ipu is available
[ 5.148538] remoteproc1: Note: remoteproc is still under development and
```

considered experimental.

```
[ 5.157673] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168224] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176629] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184473] remoteproc1: Falling back to user helper
[ 5.189677] remoteproc2: 40800000.dsp is available
[ 5.194620] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203881] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214761] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222581] remoteproc3: 41000000.dsp is available
[ 5.227581] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236668] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247209] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259134] remoteproc2: Falling back to user helper
[ 5.275271] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284132] usbcore: registered new interface driver snd-usb-audio
[ 5.292031] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297367] remoteproc3: Falling back to user helper
[ 5.303616] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309072] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316955] u32 classifier
[ 5.319675]     input device check on
[ 5.323431]     Actions configured
[ 5.326858] Netfilter messages via NETLINK v0.30.
[ 5.331637] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338314] ctnetlink v0.93: registering with nfnetlink.
[ 5.345312] xt_time: kernel timezone is -0000
[ 5.350075] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355651] arp_tables: (C) 2002 David S. Miller
[ 5.360432] Initializing XFRM netlink socket
[ 5.365402] NET: Registered protocol family 10
[ 5.380974] mip6: Mobile IPv6
[ 5.384033] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389791] sit: IPv6 over IPv4 tunneling driver
[ 5.395019] NET: Registered protocol family 17
[ 5.399505] NET: Registered protocol family 15
[ 5.404000] can: controller area network core (rev 20120528 abi 9)
[ 5.410264] NET: Registered protocol family 29
[ 5.414805] can: raw protocol (rev 20120528)
[ 5.419100] can: broadcast manager protocol (rev 20120528 t)
[ 5.424815] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430634] NET: Registered protocol family 41
[ 5.435462] omap_voltage_late_init: Voltage driver support not added
[ 5.442441] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448680] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454938] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461541] Power Management for TI OMAP4+ devices.
[ 5.466703] Registering SWP/SWPB emulation handler
[ 5.471979] registered taskstats version 1
```

```

[ 5.476983] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484566] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502076] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511040] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517069] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523525] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531200] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537467] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543748] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551292] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559166] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566717] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572665] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579203] hctosys: unable to open rtc device (rtc0)
[ 5.593344] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601266] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613896] evm_1v8: disabling
[ 5.616971] evm_3v3_sw: disabling
[ 5.620301] aic_dvdd: disabling
[ 5.623537] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629819] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636333] vmmcwl_fixed: disabling
[ 5.639848] evm_3v3_sd: disabling
[ 5.644096] ALSA device list:
[ 5.647079]   No soundcards found.
[ 5.651383] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658740] Freeing unused kernel memory: 2048K
[ 5.667251] init: init first stage started!
[ 5.671716] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799970] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814880] init: Wait for partitions returned after 10001ms
[ 15.820587] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833207] init: Failed to mount required partitions early ...
[ 15.839215] init: panic: rebooting to bootloader
[ 15.845023] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851803] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859556] init: Shutdown timeout: 6000 ms
[ 15.863854] init: terminating init services
[ 15.868078] init: waitid failed: No child processes
[ 15.872997] init: Terminating running services took 27ms with remaining
services:0
[ 15.880672] init: waitid failed: No child processes
[ 15.885623] init: vold not running, skipping vold shutdown
[ 15.991641] init: powerctl_shutdown_time_ms:146:0
[ 15.996402] init: Reboot ending, jumping to kernel
[ 16.001575] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007140] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012681] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018232] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025596] reboot: Restarting system with command 'bootloader'

```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...

Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
```

```
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xfff00000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000326] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000334] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000745] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000760] pid_max: default: 32768 minimum: 301
[ 0.000835] Security Framework initialized
[ 0.000847] SELinux: Initializing.
[ 0.000923] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
```

```

[ 0.001504] Initializing cgroup subsys io
[ 0.001523] Initializing cgroup subsys memory
[ 0.001548] Initializing cgroup subsys devices
[ 0.001560] Initializing cgroup subsys freezer
[ 0.001571] Initializing cgroup subsys perf_event
[ 0.001582] Initializing cgroup subsys pids
[ 0.001620] CPU: Testing write buffer coherency: ok
[ 0.001867] /cpus/cpu@0 missing clock-frequency property
[ 0.001883] /cpus/cpu@1 missing clock-frequency property
[ 0.001892] CPU0: update cpu_capacity 1024
[ 0.001900] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001948] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080489] CPU1: failed to come online
[ 1.080519] Brought up 1 CPUs
[ 1.080528] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080535] CPU: All CPU(s) started in HYP mode.
[ 1.080541] CPU: Virtualization extensions available.
[ 1.080572] CPU0: update max cpu_capacity 1024
[ 1.120899] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121928] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220816] omap_hwmod: cal: no dt node
[ 1.220826] -----[ cut here ]-----
[ 1.220841] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220848] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220854] Modules linked in:
[ 1.220869] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220876] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220883] Backtrace:
[ 1.220899] [] (dump_backtrace) from [

```

```
[ 1.221144] r4:00000000
[ 1.221159] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221165] r5:c0b46388 r4:00000000
[ 1.221191] ---[ end trace 791271fe1e12efc1 ]---
[ 1.310029] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310051] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314250] pinctrl core: initialized pinctrl subsystem
[ 1.315263] NET: Registered protocol family 16
[ 1.316383] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360929] cpuidle: using governor ladder
[ 1.420982] cpuidle: using governor menu
[ 1.429977] OMAP GPIO hardware version 0.1
[ 1.434157] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436510] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453809] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453823] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x10000000
[ 1.460584] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460893] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461166] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465650] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465661] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466142] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466152] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466846] OMAP DMA hardware revision 0.0
[ 1.572089] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573350] edma 43300000.edma: memcpy is disabled
[ 1.578184] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582908] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583101] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583272] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583446] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583750] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583943] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585996] usbcore: registered new interface driver usbfs
[ 1.586056] usbcore: registered new interface driver hub
[ 1.586173] usbcore: registered new device driver usb
[ 1.587680] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602186] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611670] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611783] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612632] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613362] pcf857x 0-0020: probed
[ 1.613972] pcf857x 0-0021: probed
[ 1.614119] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632800] omap_i2c 48072000.i2c: controller timed out
[ 2.652828] pcf857x: probe of 1-0026 failed with error -110
[ 2.653387] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653839] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673046] pcf857x 3-0021: probed
[ 2.673073] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673303] media: Linux media interface: v0.10
[ 2.673358] Linux video capture interface: v2.00
[ 2.673400] pps_core: LinuxPPS API ver. 1 registered
```

```
[ 2.673408] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673434] PTP clock support registered
[ 2.673485] EDAC MC: Ver: 3.0.0
[ 2.683445] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683743] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684210] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693400] clocksource: Switched to clocksource arch_sys_counter
[ 2.736771] NET: Registered protocol family 2
[ 2.737368] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737433] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737558] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737612] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737644] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737797] NET: Registered protocol family 1
[ 2.738382] Trying to unpack rootfs image as initramfs...
[ 2.782547] Freeing initrd memory: 1092K
[ 2.783611] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786316] audit: initializing netlink subsys (disabled)
[ 2.786376] audit: type=2000 audit(2.779:1): initialized
[ 2.803825] VFS: Disk quotas dquot_6.6.0
[ 2.803999] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815118] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815371] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815699] fuse init (API version 7.23)
[ 2.820635] bounce: pool size: 64 pages
[ 2.820795] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820809] io scheduler noop registered
[ 2.820821] io scheduler deadline registered
[ 2.820853] io scheduler cfq registered (default)
[ 2.825709] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829093] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829133]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829154]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860798] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860976] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860991] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.861001] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.861011] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.861427] PCI: bus0: Fast back to back transfers disabled
[ 2.861552] PCI: bus1: Fast back to back transfers enabled
[ 2.861645] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861661] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861674] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861905] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866833] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869305] console [ttyS0] disabled
[ 2.869369] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116299] console [ttyS0] enabled
[ 4.120339] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129690] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139737] [drm] Initialized drm 1.1.0 20060810
[ 4.146017] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322911] brd: module loaded
[ 4.411237] loop: module loaded
```



```
[ 4.425972] nand: No NAND device found
[ 4.429745] omap2-nand 8000000.nand: scan failed, may be bus-width mismatch
[ 4.439860] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445306] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451164] Creating 7 MTD partitions on "spi32766.0":
[ 4.456346] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472407] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488728] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505643] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.522263] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539612] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555940] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573725] libphy: Fixed MDIO Bus: probed
[ 4.578391] tun: Universal TUN/TAP device driver, 1.6
[ 4.583509] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589803] CAN device driver interface
[ 4.594799] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653438] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659563] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680144] libphy: 48485000.mdio: probed
[ 4.684239] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692542] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701588] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708295] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715320] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.722961] PPP generic driver version 2.4.2
[ 4.727459] PPP BSD Compression module registered
[ 4.732189] PPP Deflate Compression module registered
[ 4.737318] PPP MPPE Compression module registered
[ 4.742134] NET: Registered protocol family 24
[ 4.749040] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755664] ehci-pci: EHCI PCI platform driver
[ 4.760177] ehci-platform: EHCI generic platform driver
[ 4.765799] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772031] ohci-pci: OHCI PCI platform driver
[ 4.776660] ohci-platform: OHCI generic platform driver
[ 4.782889] mousedev: PS/2 mouse device common for all mice
[ 4.788688] usbcore: registered new interface driver xpad
[ 4.794197] usbcore: registered new interface driver usb_acecad
[ 4.800186] usbcore: registered new interface driver aiptek
[ 4.805868] usbcore: registered new interface driver gtco
[ 4.811337] usbcore: registered new interface driver hanwang
[ 4.817084] usbcore: registered new interface driver kbtap
[ 4.823172] i2c /dev entries driver
[ 4.827781] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834911] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841101] gspca_main: v2.14.0 registered
[ 4.848897] device-mapper: uevent: version 1.0.3
[ 4.853700] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859816] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868329] vip 48970000.vip: VPDMA firmware loaded
[ 4.884756] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890400] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896868] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028343] ledtrig-cpu: registered to indicate activity on CPUs
```

```
[ 5.034420] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042654] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051014] usbcore: registered new interface driver usbhid
[ 5.056662] usbhid: USB HID core driver
[ 5.060806] ashmem: initialized
[ 5.077528] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.083675] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091536] remoteproc0: 58820000.ipu is available
[ 5.096486] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.105529] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.116107] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.124519] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.132327] remoteproc0: Falling back to user helper
[ 5.137504] remoteproc1: 55020000.ipu is available
[ 5.142522] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.151582] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.162164] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.170597] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.178438] remoteproc1: Falling back to user helper
[ 5.183616] remoteproc2: 40800000.dsp is available
[ 5.188630] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.198821] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.204372] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.215817] mmc0: new high speed SDIO card at address 0001
[ 5.221909] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.230017] remoteproc3: 41000000.dsp is available
[ 5.234963] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.245125] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.253338] remoteproc2: Falling back to user helper
[ 5.258459] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.280160] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.289021] usbcore: registered new interface driver snd-usb-audio
[ 5.296999] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.302634] remoteproc3: Falling back to user helper
[ 5.308471] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.314012] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.320723] u32 classifier
[ 5.323505]     input device check on
[ 5.327238]     Actions configured
[ 5.330664] Netfilter messages via NETLINK v0.30.
[ 5.335493] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.342109] ctnetlink v0.93: registering with nfnetlink.
```

```
[ 5.349126] xt_time: kernel timezone is -0000
[ 5.353941] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.359462] arp_tables: (C) 2002 David S. Miller
[ 5.364267] Initializing XFRM netlink socket
[ 5.369204] NET: Registered protocol family 10
[ 5.384812] mip6: Mobile IPv6
[ 5.387819] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.393621] sit: IPv6 over IPv4 tunneling driver
[ 5.398820] NET: Registered protocol family 17
[ 5.403307] NET: Registered protocol family 15
[ 5.407802] can: controller area network core (rev 20120528 abi 9)
[ 5.414082] NET: Registered protocol family 29
[ 5.418562] can: raw protocol (rev 20120528)
[ 5.422856] can: broadcast manager protocol (rev 20120528 t)
[ 5.428570] can: netlink gateway (rev 20130117) max_hops=1
[ 5.434406] NET: Registered protocol family 41
[ 5.439207] omap_voltage_late_init: Voltage driver support not added
[ 5.446215] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.452424] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.458693] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.465312] Power Management for TI OMAP4+ devices.
[ 5.470453] Registering SWP/SWPB emulation handler
[ 5.475741] registered taskstats version 1
[ 5.480714] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.488301] dmm 4e000000.dmm: initialized all PAT entries
[ 5.505856] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.514840] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.520822] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.527280] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.535011] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.541220] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.547510] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.555104] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.562908] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.570460] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.575241] hctosys: unable to open rtc device (rtc0)
[ 5.584969] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.591359] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.610078] evm_1v8: disabling
[ 5.613155] evm_3v3_sw: disabling
[ 5.618141] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.624433] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.630675] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.637214] aic_dvdd: disabling
[ 5.640370] vmmcwl_fixed: disabling
[ 5.643922] evm_3v3_sd: disabling
[ 5.647472] ALSA device list:
[ 5.650450]   No soundcards found.
[ 5.655084] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.663652] Freeing unused kernel memory: 2048K
[ 5.671038] init: init first stage started!
[ 5.675575] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.803571] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.818024] init: Wait for partitions returned after 10000ms
[ 15.823756] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.836371] init: Failed to mount required partitions early ...
[ 15.842330] init: panic: rebooting to bootloader
```

```
[ 15.848144] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.854968] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.862676] init: Shutdown timeout: 6000 ms
[ 15.866969] init: terminating init services
[ 15.871193] init: waitid failed: No child processes
[ 15.876163] init: Terminating running services took 28ms with remaining
services:0
[ 15.883835] init: waitid failed: No child processes
[ 15.888745] init: vold not running, skipping vold shutdown
[ 15.994806] init: powerctl_shutdown_time_ms:146:0
[ 15.999546] init: Reboot ending, jumping to kernel
[ 16.004737] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.010282] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.015846] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.021380] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.028742] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000

Hit any key to stop autoboot: 0

MMC: no card present

MMC: no card present

MMC: no card present

switch to partitions #0, OK

mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap    : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss    : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
```

```

[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000314] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000322] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000729] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000744] pid_max: default: 32768 minimum: 301
[ 0.000818] Security Framework initialized
[ 0.000830] SELinux: Initializing.
[ 0.000903] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000913] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001483] Initializing cgroup subsys io
[ 0.001501] Initializing cgroup subsys memory
[ 0.001527] Initializing cgroup subsys devices
[ 0.001540] Initializing cgroup subsys freezer
[ 0.001551] Initializing cgroup subsys perf_event
[ 0.001564] Initializing cgroup subsys pids
[ 0.001602] CPU: Testing write buffer coherency: ok
[ 0.001849] /cpus/cpu@0 missing clock-frequency property
[ 0.001866] /cpus/cpu@1 missing clock-frequency property
[ 0.001875] CPU0: update cpu_capacity 1024
[ 0.001884] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001933] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080491] CPU1: failed to come online
[ 1.080523] Brought up 1 CPUs
[ 1.080532] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080539] CPU: All CPU(s) started in HYP mode.
[ 1.080546] CPU: Virtualization extensions available.
[ 1.080578] CPU0: update max cpu_capacity 1024
[ 1.110884] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111916] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.211633] omap_hwmod: cal: no dt node
[ 1.211643] -----[ cut here ]-----
[ 1.211658] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211665] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211672] Modules linked in:
[ 1.211686] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211694] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211701] Backtrace:
[ 1.211718] [] (dump_backtrace) from [

```

```
(warn_slowpath_fmt+0xa8/0xec)
[ 1.211772] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.211795] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(__init+0x2d4/0x440)
[ 1.211802] r3:c0e065f8 r2:c0e03fe0
[ 1.211813] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.211835] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.211841] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.211862] r4:c1217c48
[ 1.211875] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.211882] r5:c120bd68 r4:00000001
[ 1.211898] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.211905] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.211925] r4:00000001
[ 1.211939] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.211945] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.211965] r4:00000000
[ 1.211979] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.211985] r5:c0b46388 r4:00000000
[ 1.212010] ---[ end trace f750e7111c2f56a5 ]---
[ 1.300523] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.300545] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304209] pinctrl core: initialized pinctrl subsystem
[ 1.305232] NET: Registered protocol family 16
[ 1.306369] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350905] cpuidle: using governor ladder
[ 1.410954] cpuidle: using governor menu
[ 1.419929] OMAP GPIO hardware version 0.1
[ 1.424106] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426447] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.443778] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443793] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450546] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450855] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451126] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455632] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455644] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456137] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456147] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456844] OMAP DMA hardware revision 0.0
[ 1.562081] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563349] edma 43300000.edma: memcpy is disabled
[ 1.568142] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572884] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573078] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573247] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573424] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573732] omap-iommu 41501000.mmu: 41501000.mmu registered
```

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[ 1.573925] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575988] usbcore: registered new interface driver usbfs
[ 1.576049] usbcore: registered new interface driver hub
[ 1.576165] usbcore: registered new device driver usb
[ 1.577670] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592154] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601630] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601741] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602584] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603318] pcf857x 0-0020: probed
[ 1.603927] pcf857x 0-0021: probed
[ 1.604074] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622765] omap_i2c 48072000.i2c: controller timed out
[ 2.642794] pcf857x: probe of 1-0026 failed with error -110
[ 2.643354] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643808] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.663012] pcf857x 3-0021: probed
[ 2.663039] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663271] media: Linux media interface: v0.10
[ 2.663326] Linux video capture interface: v2.00
[ 2.663368] pps_core: LinuxPPS API ver. 1 registered
[ 2.663376] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663402] PTP clock support registered
[ 2.663453] EDAC MC: Ver: 3.0.0
[ 2.673416] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673714] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674181] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683368] clocksource: Switched to clocksource arch_sys_counter
[ 2.726971] NET: Registered protocol family 2
[ 2.727570] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.727634] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727760] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727812] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727844] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.728000] NET: Registered protocol family 1
[ 2.728591] Trying to unpack rootfs image as initramfs...
[ 2.772798] Freeing initrd memory: 1092K
[ 2.773864] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.776574] audit: initializing netlink subsys (disabled)
[ 2.776632] audit: type=2000 audit(2.769:1): initialized
[ 2.794066] VFS: Disk quotas dquot_6.6.0
[ 2.794239] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.805361] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.805618] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805949] fuse init (API version 7.23)
[ 2.810924] bounce: pool size: 64 pages
[ 2.811084] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.811099] io scheduler noop registered
[ 2.811111] io scheduler deadline registered
[ 2.811142] io scheduler cfq registered (default)
[ 2.816007] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819365] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.819404] IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819426] MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.851017] dra7-pcie 51000000.pcie_rc: link is not up
```



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[ 2.851195] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.851210] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.851220] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.851230] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.851643] PCI: bus0: Fast back to back transfers disabled
[ 2.851765] PCI: bus1: Fast back to back transfers enabled
[ 2.851856] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851872] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851886] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.852109] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.857035] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859492] console [ttyS0] disabled
[ 2.859555] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.106431] console [ttyS0] enabled
[ 4.110470] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119819] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129871] [drm] Initialized drm 1.1.0 20060810
[ 4.136175] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.313071] brd: module loaded
[ 4.401409] loop: module loaded
[ 4.416149] nand: No NAND device found
[ 4.419923] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.430045] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.435491] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441349] Creating 7 MTD partitions on "spi32766.0":
[ 4.446529] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.462589] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.478903] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.495821] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.512447] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.529794] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.546122] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.563906] libphy: Fixed MDIO Bus: probed
[ 4.568577] tun: Universal TUN/TAP device driver, 1.6
[ 4.573696] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579989] CAN device driver interface
[ 4.584980] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643406] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649532] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670427] libphy: 48485000.mdio: probed
[ 4.674524] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682827] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691883] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698592] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705609] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713246] PPP generic driver version 2.4.2
[ 4.717743] PPP BSD Compression module registered
[ 4.722472] PPP Deflate Compression module registered
[ 4.727602] PPP MPPE Compression module registered
[ 4.732418] NET: Registered protocol family 24
[ 4.739327] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745954] ehci-pci: EHCI PCI platform driver
[ 4.750465] ehci-platform: EHCI generic platform driver
```

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[ 4.756088] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762319] ohci-pci: OHCI PCI platform driver
[ 4.766939] ohci-platform: OHCI generic platform driver
[ 4.773169] mousedev: PS/2 mouse device common for all mice
[ 4.778973] usbcore: registered new interface driver xpad
[ 4.784484] usbcore: registered new interface driver usb_acecad
[ 4.790472] usbcore: registered new interface driver aiptek
[ 4.796152] usbcore: registered new interface driver gtco
[ 4.801619] usbcore: registered new interface driver hanwang
[ 4.807365] usbcore: registered new interface driver kbtabs
[ 4.813480] i2c /dev entries driver
[ 4.818061] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825189] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.831386] gspca_main: v2.14.0 registered
[ 4.839198] device-mapper: uevent: version 1.0.3
[ 4.844003] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.850115] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858627] vip 48970000.vip: VPDMA firmware loaded
[ 4.874916] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880571] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.887040] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018415] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024492] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032725] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.041071] usbcore: registered new interface driver usbhid
[ 5.046754] usbhid: USB HID core driver
[ 5.050901] ashmem: initialized
[ 5.059501] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.066694] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.072359] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.081145] mmc0: new high speed SDIO card at address 0001
[ 5.086727] remoteproc0: 58820000.ipu is available
[ 5.091628] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101959] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112516] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120912] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128736] remoteproc0: Falling back to user helper
[ 5.133891] remoteproc1: 55020000.ipu is available
[ 5.138791] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147924] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158475] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166879] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174723] remoteproc1: Falling back to user helper
[ 5.179926] remoteproc2: 40800000.dsp is available
[ 5.184869] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.194127] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
```

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[ 5.205011] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212832] remoteproc3: 41000000.dsp is available
[ 5.217830] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226921] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237458] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249375] remoteproc2: Falling back to user helper
[ 5.273631] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.282474] usbcore: registered new interface driver snd-usb-audio
[ 5.290445] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.295755] remoteproc3: Falling back to user helper
[ 5.301948] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.307468] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.315341] u32 classifier
[ 5.318060]     input device check on
[ 5.321734]     Actions configured
[ 5.325234] Netfilter messages via NETLINK v0.30.
[ 5.330017] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.337807] ctnetlink v0.93: registering with nfnetlink.
[ 5.343698] xt_time: kernel timezone is -0000
[ 5.348460] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.354033] arp_tables: (C) 2002 David S. Miller
[ 5.358815] Initializing XFRM netlink socket
[ 5.363817] NET: Registered protocol family 10
[ 5.379400] mip6: Mobile IPv6
[ 5.382408] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.388209] sit: IPv6 over IPv4 tunneling driver
[ 5.393437] NET: Registered protocol family 17
[ 5.397925] NET: Registered protocol family 15
[ 5.402393] can: controller area network core (rev 20120528 abi 9)
[ 5.408674] NET: Registered protocol family 29
[ 5.413154] can: raw protocol (rev 20120528)
[ 5.417511] can: broadcast manager protocol (rev 20120528 t)
[ 5.423208] can: netlink gateway (rev 20130117) max_hops=1
[ 5.429048] NET: Registered protocol family 41
[ 5.433875] omap_voltage_late_init: Voltage driver support not added
[ 5.440855] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.447092] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.453333] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.459953] Power Management for TI OMAP4+ devices.
[ 5.465117] Registering SWP/SWPB emulation handler
[ 5.470387] registered taskstats version 1
[ 5.475394] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.482941] dmm 4e000000.dmm: initialized all PAT entries
[ 5.500497] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.509466] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.515498] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.521885] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.529625] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.535893] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.542133] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.549711] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.557577] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.565126] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.571078] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
```

```
[ 5.577617] hctosys: unable to open rtc device (rtc0)
[ 5.593453] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601402] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.612148] evm_1v8: disabling
[ 5.615304] evm_3v3_sw: disabling
[ 5.618636] aic_dvdd: disabling
[ 5.621790] vmmcw1_fixed: disabling
[ 5.625365] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.631639] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.638162] evm_3v3_sd: disabling
[ 5.641712] ALSA device list:
[ 5.645993] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.652839] No soundcards found.
[ 5.657967] Freeing unused kernel memory: 2048K
[ 5.665433] init: init first stage started!
[ 5.669898] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.797971] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.812995] init: Wait for partitions returned after 10001ms
[ 15.818727] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.831342] init: Failed to mount required partitions early ...
[ 15.838460] init: panic: rebooting to bootloader
[ 15.843114] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.849937] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.857689] init: Shutdown timeout: 6000 ms
[ 15.861940] init: terminating init services
[ 15.866212] init: waitid failed: No child processes
[ 15.871133] init: Terminating running services took 28ms with remaining
services:0
[ 15.878806] init: waitid failed: No child processes
[ 15.883759] init: vold not running, skipping vold shutdown
[ 15.989780] init: powerctl_shutdown_time_ms:146:0
[ 15.994540] init: Reboot ending, jumping to kernel
[ 15.999713] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.005278] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.010819] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.016368] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.023733] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
```

516416

```
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000324] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000331] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000741] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000755] pid_max: default: 32768 minimum: 301
[ 0.000831] Security Framework initialized
[ 0.000842] SELinux: Initializing.
[ 0.000915] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000924] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001495] Initializing cgroup subsys io
[ 0.001513] Initializing cgroup subsys memory
[ 0.001539] Initializing cgroup subsys devices
[ 0.001551] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001574] Initializing cgroup subsys pids
[ 0.001613] CPU: Testing write buffer coherency: ok
[ 0.001858] /cpus/cpu@0 missing clock-frequency property
[ 0.001875] /cpus/cpu@1 missing clock-frequency property
[ 0.001885] CPU0: update cpu_capacity 1024
[ 0.001893] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001940] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080479] CPU1: failed to come online
```

```
[ 1.080510] Brought up 1 CPUs
[ 1.080519] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080526] CPU: All CPU(s) started in HYP mode.
[ 1.080532] CPU: Virtualization extensions available.
[ 1.080563] CPU0: update max cpu_capacity 1024
[ 1.120884] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121907] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221422] omap_hwmod: cal: no dt node
[ 1.221432] -----[ cut here ]-----
[ 1.221447] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221454] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221460] Modules linked in:
[ 1.221474] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221481] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221488] Backtrace:
[ 1.221505] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.221512] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221539] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221551] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221558] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221581] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221587] r3:c0e065f8 r2:c0e03fe0
[ 1.221598] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221619] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221626] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221647] r4:c1217c48
[ 1.221660] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221666] r5:c120bd68 r4:00000001
[ 1.221682] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221689] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221709] r4:00000001
[ 1.221723] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221729] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221749] r4:00000000
[ 1.221763] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221769] r5:c0b46388 r4:00000000
[ 1.221794] ---[ end trace 52f54381bf54d832 ]---
[ 1.310217] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310239] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314188] pinctrl core: initialized pinctrl subsystem
[ 1.315204] NET: Registered protocol family 16
[ 1.316331] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360904] cpuidle: using governor ladder
[ 1.420954] cpuidle: using governor menu
```

```
[ 1.429934] OMAP GPIO hardware version 0.1
[ 1.434104] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436466] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453774] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453789] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460543] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460852] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461126] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465624] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465635] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466126] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466136] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466835] OMAP DMA hardware revision 0.0
[ 1.572006] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573276] edma 43300000.edma: memcpy is disabled
[ 1.578129] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582860] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583056] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583225] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583399] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583706] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583898] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585948] usbcore: registered new interface driver usbfs
[ 1.586008] usbcore: registered new interface driver hub
[ 1.586126] usbcore: registered new device driver usb
[ 1.587633] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602127] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611621] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611734] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612582] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613313] pcf857x 0-0020: probed
[ 1.613930] pcf857x 0-0021: probed
[ 1.614080] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632732] omap_i2c 48072000.i2c: controller timed out
[ 2.652760] pcf857x: probe of 1-0026 failed with error -110
[ 2.653322] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653775] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672979] pcf857x 3-0021: probed
[ 2.673006] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673238] media: Linux media interface: v0.10
[ 2.673292] Linux video capture interface: v2.00
[ 2.673335] pps_core: LinuxPPS API ver. 1 registered
[ 2.673343] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673369] PTP clock support registered
[ 2.673421] EDAC MC: Ver: 3.0.0
[ 2.683381] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683682] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684143] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693334] clocksource: Switched to clocksource arch_sys_counter
[ 2.736749] NET: Registered protocol family 2
[ 2.737343] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737408] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737533] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737588] UDP hash table entries: 512 (order: 2, 16384 bytes)
```



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[ 2.737619] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737772] NET: Registered protocol family 1
[ 2.738360] Trying to unpack rootfs image as initramfs...
[ 2.782520] Freeing initrd memory: 1092K
[ 2.783592] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786290] audit: initializing netlink subsys (disabled)
[ 2.786349] audit: type=2000 audit(2.779:1): initialized
[ 2.803718] VFS: Disk quotas dquot_6.6.0
[ 2.803890] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815010] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815264] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815591] fuse init (API version 7.23)
[ 2.820546] bounce: pool size: 64 pages
[ 2.820703] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820717] io scheduler noop registered
[ 2.820728] io scheduler deadline registered
[ 2.820761] io scheduler cfq registered (default)
[ 2.825627] pinctrl-single 4a003400.pinxmux: 282 pins at pa fc003400 size 1128
[ 2.829002] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829042]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829063]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860568] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860751] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860766] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860777] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860787] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.861204] PCI: bus0: Fast back to back transfers disabled
[ 2.861329] PCI: bus1: Fast back to back transfers enabled
[ 2.861420] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861436] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861449] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861676] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866601] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869051] console [ttyS0] disabled
[ 2.869113] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116023] console [ttyS0] enabled
[ 4.120059] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129406] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139463] [drm] Initialized drm 1.1.0 20060810
[ 4.145770] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322663] brd: module loaded
[ 4.410998] loop: module loaded
[ 4.425744] nand: No NAND device found
[ 4.429517] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439623] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445067] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450925] Creating 7 MTD partitions on "spi32766.0":
[ 4.456108] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472166] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488482] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505396] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522017] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539368] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555696] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573488] libphy: Fixed MDIO Bus: probed
```

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[ 4.578167] tun: Universal TUN/TAP device driver, 1.6
[ 4.583239] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589575] CAN device driver interface
[ 4.594571] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653374] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659501] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680186] libphy: 48485000.mdio: probed
[ 4.684279] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692582] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701630] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708340] cpsw 48484000.ethernet: cpsw: overflow check period 800
[ 4.715362] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723007] PPP generic driver version 2.4.2
[ 4.727508] PPP BSD Compression module registered
[ 4.732237] PPP Deflate Compression module registered
[ 4.737369] PPP MPPE Compression module registered
[ 4.742184] NET: Registered protocol family 24
[ 4.749102] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755726] ehci-pci: EHCI PCI platform driver
[ 4.760239] ehci-platform: EHCI generic platform driver
[ 4.765863] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772094] ohci-pci: OHCI PCI platform driver
[ 4.776701] ohci-platform: OHCI generic platform driver
[ 4.782924] mousedev: PS/2 mouse device common for all mice
[ 4.788725] usbcore: registered new interface driver xpad
[ 4.794235] usbcore: registered new interface driver usb_acecad
[ 4.800222] usbcore: registered new interface driver aiptek
[ 4.805904] usbcore: registered new interface driver gtco
[ 4.811374] usbcore: registered new interface driver hanwang
[ 4.817120] usbcore: registered new interface driver kbtap
[ 4.823211] i2c /dev entries driver
[ 4.827823] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834951] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841142] gspca_main: v2.14.0 registered
[ 4.848968] device-mapper: uevent: version 1.0.3
[ 4.853769] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859879] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868391] vip 48970000.vip: VPDMA firmware loaded
[ 4.884723] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890381] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896850] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028281] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034354] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042586] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050942] usbcore: registered new interface driver usbhid
[ 5.056591] usbhid: USB HID core driver
[ 5.060740] ashmem: initialized
[ 5.069339] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076525] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082198] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090993] mmc0: new high speed SDIO card at address 0001
[ 5.096576] remoteproc0: 58820000.ipu is available
[ 5.101476] remoteproc0: Note: remoteproc is still under development and
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considered experimental.

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[ 5.111811] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122370] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130766] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138591] remoteproc0: Falling back to user helper
[ 5.143745] remoteproc1: 55020000.ipu is available
[ 5.148644] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157775] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168327] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176731] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184577] remoteproc1: Falling back to user helper
[ 5.189782] remoteproc2: 40800000.dsp is available
[ 5.194723] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203983] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214869] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222688] remoteproc3: 41000000.dsp is available
[ 5.227688] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236777] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247313] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259230] remoteproc2: Falling back to user helper
[ 5.275374] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284238] usbcore: registered new interface driver snd-usb-audio
[ 5.292125] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297462] remoteproc3: Falling back to user helper
[ 5.303717] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309174] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317055] u32 classifier
[ 5.319775]     input device check on
[ 5.323534]     Actions configured
[ 5.326961] Netfilter messages via NETLINK v0.30.
[ 5.331741] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338414] ctnetlink v0.93: registering with nfnetlink.
[ 5.345418] xt_time: kernel timezone is -0000
[ 5.350183] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355757] arp_tables: (C) 2002 David S. Miller
[ 5.360540] Initializing XFRM netlink socket
[ 5.365498] NET: Registered protocol family 10
[ 5.381076] mip6: Mobile IPv6
[ 5.384132] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389890] sit: IPv6 over IPv4 tunneling driver
[ 5.395111] NET: Registered protocol family 17
[ 5.399599] NET: Registered protocol family 15
[ 5.404092] can: controller area network core (rev 20120528 abi 9)
[ 5.410357] NET: Registered protocol family 29
[ 5.414898] can: raw protocol (rev 20120528)
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[ 5.419194] can: broadcast manager protocol (rev 20120528 t)
[ 5.424910] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430729] NET: Registered protocol family 41
[ 5.435562] omap_voltage_late_init: Voltage driver support not added
[ 5.442544] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448784] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455040] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461642] Power Management for TI OMAP4+ devices.
[ 5.466810] Registering SWP/SWPB emulation handler
[ 5.472077] registered taskstats version 1
[ 5.477076] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484663] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502175] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511152] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517177] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523631] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531307] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537573] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543853] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551396] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559269] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566818] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572780] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579318] hctosys: unable to open rtc device (rtc0)
[ 5.593421] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601351] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613956] evm_1v8: disabling
[ 5.617034] evm_3v3_sw: disabling
[ 5.620362] aic_dvdd: disabling
[ 5.623600] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629884] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636399] vmmcwl_fixed: disabling
[ 5.639912] evm_3v3_sd: disabling
[ 5.643507] ALSA device list:
[ 5.646487]   No soundcards found.
[ 5.651389] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658745] Freeing unused kernel memory: 2048K
[ 5.667256] init: init first stage started!
[ 5.671721] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799460] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.813953] init: Wait for partitions returned after 10000ms
[ 15.819662] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.832278] init: Failed to mount required partitions early ...
[ 15.838286] init: panic: rebooting to bootloader
[ 15.842940] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.850877] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.858629] init: Shutdown timeout: 6000 ms
[ 15.862881] init: terminating init services
[ 15.867154] init: waitid failed: No child processes
[ 15.872075] init: Terminating running services took 29ms with remaining
services:0
[ 15.879751] init: waitid failed: No child processes
[ 15.884703] init: vold not running, skipping vold shutdown
[ 15.990727] init: powerctl_shutdown_time_ms:147:0
[ 15.995488] init: Reboot ending, jumping to kernel
[ 16.000659] remoteproc3: failed to load dra7-dsp2-fw.xe66
```

```
[ 16.006223] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.011766] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.017317] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.024683] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
```

```
Kernel command line: buildvariant=userdebug
```

```
RAM disk load addr 0x83000000 size 1092 KiB
```

```
## Flattened Device Tree blob at 88000000
```

```
Booting using the fdt blob at 0x88000000
```

```
Loading Kernel Image ... OK
```

```
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
```

```
Loading Device Tree to 8fed1000, end 8feee946 ... OK
```

```
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
```

```
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]       .text  : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]       .init  : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]       .data  : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]       .bss  : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
```

```
[ 0.000323] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000331] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000741] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000755] pid_max: default: 32768 minimum: 301
[ 0.000830] Security Framework initialized
[ 0.000841] SELinux: Initializing.
[ 0.000917] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000926] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001497] Initializing cgroup subsys io
[ 0.001516] Initializing cgroup subsys memory
[ 0.001541] Initializing cgroup subsys devices
[ 0.001553] Initializing cgroup subsys freezer
[ 0.001565] Initializing cgroup subsys perf_event
[ 0.001577] Initializing cgroup subsys pids
[ 0.001616] CPU: Testing write buffer coherency: ok
[ 0.001863] /cpus/cpu@0 missing clock-frequency property
[ 0.001880] /cpus/cpu@1 missing clock-frequency property
[ 0.001890] CPU0: update cpu_capacity 1024
[ 0.001898] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001943] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080476] CPU1: failed to come online
[ 1.080507] Brought up 1 CPUs
[ 1.080517] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080524] CPU: All CPU(s) started in HYP mode.
[ 1.080530] CPU: Virtualization extensions available.
[ 1.080563] CPU0: update max cpu_capacity 1024
[ 1.110864] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111897] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.209483] omap_hwmod: cal: no dt node
[ 1.209494] -----[ cut here ]-----
[ 1.209509] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.209516] omap_hwmod: cal: doesn't have mpu register target base
[ 1.209522] Modules linked in:
[ 1.209536] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.209544] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.209551] Backtrace:
[ 1.209568] [] (dump_backtrace) from [
```

```
[ 1.209732] r5:c120bd68 r4:00000001
[ 1.209748] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.209754] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.209774] r4:00000001
[ 1.209787] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.209793] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.209812] r4:00000000
[ 1.209826] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.209832] r5:c0b46388 r4:00000000
[ 1.209858] ---[ end trace 35a85433f49db619 ]---
[ 1.298657] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.298679] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304200] pinctrl core: initialized pinctrl subsystem
[ 1.305222] NET: Registered protocol family 16
[ 1.306353] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.350890] cpuidle: using governor ladder
[ 1.410942] cpuidle: using governor menu
[ 1.419917] OMAP GPIO hardware version 0.1
[ 1.424099] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426438] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.443749] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.443764] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450527] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.450838] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451109] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455621] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.455632] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456117] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456127] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.456825] OMAP DMA hardware revision 0.0
[ 1.562031] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563300] edma 43300000.edma: memcpy is disabled
[ 1.568072] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.572790] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.572983] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573151] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573326] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.573632] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.573826] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.575874] usbcore: registered new interface driver usbfs
[ 1.575935] usbcore: registered new interface driver hub
[ 1.576050] usbcore: registered new device driver usb
[ 1.577558] palmas 0-0058: IRQ missing: skipping irq request
[ 1.592061] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.601564] smps9: failed to apply 1800000uV constraint(-22)
[ 1.601677] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.602524] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.603254] pcf857x 0-0020: probed
[ 1.603867] pcf857x 0-0021: probed
```



```
[ 1.604014] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.622674] omap_i2c 48072000.i2c: controller timed out
[ 2.642702] pcf857x: probe of 1-0026 failed with error -110
[ 2.643266] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.643719] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.662921] pcf857x 3-0021: probed
[ 2.662949] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.663181] media: Linux media interface: v0.10
[ 2.663235] Linux video capture interface: v2.00
[ 2.663277] pps_core: LinuxPPS API ver. 1 registered
[ 2.663285] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.663310] PTP clock support registered
[ 2.663360] EDAC MC: Ver: 3.0.0
[ 2.673317] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.673615] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.674085] Advanced Linux Sound Architecture Driver Initialized.
[ 2.683274] clocksource: Switched to clocksource arch_sys_counter
[ 2.726249] NET: Registered protocol family 2
[ 2.726850] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.726916] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.727041] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.727096] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727127] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.727278] NET: Registered protocol family 1
[ 2.727863] Trying to unpack rootfs image as initramfs...
[ 2.772040] Freeing initrd memory: 1092K
[ 2.772975] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.775810] audit: initializing netlink subsys (disabled)
[ 2.775868] audit: type=2000 audit(2.769:1): initialized
[ 2.793363] VFS: Disk quotas dquot_6.6.0
[ 2.793536] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.804645] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.804900] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.805227] fuse init (API version 7.23)
[ 2.810195] bounce: pool size: 64 pages
[ 2.810354] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.810368] io scheduler noop registered
[ 2.810379] io scheduler deadline registered
[ 2.810411] io scheduler cfq registered (default)
[ 2.815272] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.818751] PCI host bridge /ocp/axi0/pcie_rc@51000000 ranges:
[ 2.818790]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.818812]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.850299] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.850481] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.850495] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.850506] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.850516] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.850932] PCI: bus0: Fast back to back transfers disabled
[ 2.851055] PCI: bus1: Fast back to back transfers enabled
[ 2.851145] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.851161] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.851174] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.851401] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.856355] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.858822] console [ttyS0] disabled
[ 2.858884] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
```

```
3000000) is a 8250
[ 4.105756] console [ttyS0] enabled
[ 4.109796] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.119143] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.129193] [drm] Initialized drm 1.1.0 20060810
[ 4.135470] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.312349] brd: module loaded
[ 4.400676] loop: module loaded
[ 4.415419] nand: No NAND device found
[ 4.419192] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.429313] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.434760] 7 ofpart partitions found on MTD device spi32766.0
[ 4.440618] Creating 7 MTD partitions on "spi32766.0":
[ 4.445801] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.461860] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.478168] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.495082] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.511699] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.529044] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.545367] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.563119] libphy: Fixed MDIO Bus: probed
[ 4.567849] tun: Universal TUN/TAP kernel driver, 1.6
[ 4.572922] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.579235] CAN device driver interface
[ 4.584231] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.643313] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.649440] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.670402] libphy: 48485000.mdio: probed
[ 4.674498] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.682800] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.691851] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.698559] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.705583] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.713224] PPP generic driver version 2.4.2
[ 4.717720] PPP BSD Compression module registered
[ 4.722450] PPP Deflate Compression module registered
[ 4.727580] PPP MPPE Compression module registered
[ 4.732396] NET: Registered protocol family 24
[ 4.739306] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.745930] ehci-pci: EHCI PCI platform driver
[ 4.750444] ehci-platform: EHCI generic platform driver
[ 4.756070] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.762301] ohci-pci: OHCI PCI platform driver
[ 4.766916] ohci-platform: OHCI generic platform driver
[ 4.773155] mousedev: PS/2 mouse device common for all mice
[ 4.778956] usbcore: registered new interface driver xpad
[ 4.784468] usbcore: registered new interface driver usb_acecad
[ 4.790455] usbcore: registered new interface driver aiptek
[ 4.796138] usbcore: registered new interface driver gtco
[ 4.801607] usbcore: registered new interface driver hanwang
[ 4.807354] usbcore: registered new interface driver kbtap
[ 4.813462] i2c /dev entries driver
[ 4.818047] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.825177] vip 48970000.vip: loading firmware vpdma-1b8.bin
```

```
[ 4.831371] gspca_main: v2.14.0 registered
[ 4.839172] device-mapper: uevent: version 1.0.3
[ 4.843975] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.850090] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.858604] vip 48970000.vip: VPDMA firmware loaded
[ 4.874887] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.880542] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.887009] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.018315] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.024389] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.032621] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.040882] usbcore: registered new interface driver usbhid
[ 5.046566] usbhid: USB HID core driver
[ 5.050708] ashmem: initialized
[ 5.059308] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.065497] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.074425] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.080002] remoteproc0: 58820000.ipu is available
[ 5.085881] mmc0: new high speed SDIO card at address 0001
[ 5.092598] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.101731] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.112287] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.120683] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.128509] remoteproc0: Falling back to user helper
[ 5.133663] remoteproc1: 55020000.ipu is available
[ 5.138562] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.147694] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.158247] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.166651] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.174496] remoteproc1: Falling back to user helper
[ 5.179698] remoteproc2: 40800000.dsp is available
[ 5.184641] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.193901] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.204783] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.212604] remoteproc3: 41000000.dsp is available
[ 5.217606] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.226695] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.237230] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.249144] remoteproc2: Falling back to user helper
[ 5.264560] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.272776] remoteproc3: Falling back to user helper
```

[6.243292] omap_i2c 48070000.i2c: controller timed out
[6.263313] extcon-usb-gpio: probe of extcon_usb1 failed with error -110
[6.294662] usbcore: registered new interface driver snd-usb-audio
[6.302564] davinci-mcasp 48464000.mcasp: DAI is shared
[6.308801] davinci-mcasp 48474000.mcasp: DAI is shared
[6.314316] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[6.321035] u32 classifier
[6.323816] input device check on
[6.327492] Actions configured
[6.330916] Netfilter messages via NETLINK v0.30.
[6.336839] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[6.343490] ctnetlink v0.93: registering with nfnetlink.
[6.349318] xt_time: kernel timezone is -0000
[6.354106] ip_tables: (C) 2000-2006 Netfilter Core Team
[6.359630] arp_tables: (C) 2002 David S. Miller
[6.364430] Initializing XFRM netlink socket
[6.369384] NET: Registered protocol family 10
[6.384991] mip6: Mobile IPv6
[6.387998] ip6_tables: (C) 2000-2006 Netfilter Core Team
[6.393807] sit: IPv6 over IPv4 tunneling driver
[6.399008] NET: Registered protocol family 17
[6.403524] NET: Registered protocol family 15
[6.407992] can: controller area network core (rev 20120528 abi 9)
[6.414269] NET: Registered protocol family 29
[6.418749] can: raw protocol (rev 20120528)
[6.423042] can: broadcast manager protocol (rev 20120528 t)
[6.428756] can: netlink gateway (rev 20130117) max_hops=1
[6.434595] NET: Registered protocol family 41
[6.439398] omap_voltage_late_init: Voltage driver support not added
[6.446400] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[6.452610] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[6.458877] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[6.465497] Power Management for TI OMAP4+ devices.
[6.470647] Registering SWP/SWPB emulation handler
[6.475941] registered taskstats version 1
[6.480919] dmm 4e000000.dmm: workaround for errata i878 in use
[6.488501] dmm 4e000000.dmm: initialized all PAT entries
[6.506040] omapdss_dss 58000000.dss: master bind failed: -517
[6.514256] omap_hsmmc 4809c000.mmc: Got CD GPIO
[6.520219] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[6.526675] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[6.534399] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[6.540609] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[6.546893] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[6.554479] omapdss_dss 58000000.dss: master bind failed: -517
[6.562226] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[6.569787] omap_hsmmc 4809c000.mmc: Got CD GPIO
[6.574568] hctosys: unable to open rtc device (rtc0)
[6.584881] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[6.591269] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[6.609260] evm_1v8: disabling
[6.612338] evm_3v3_sw: disabling
[6.617316] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[6.623607] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[6.629849] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[6.636387] aic_dvdd: disabling
[6.639543] vmmcwl_fixed: disabling
[6.643055] evm_3v3_sd: disabling
[6.646648] ALSA device list:

```
[ 6.649628] No soundcards found.
[ 6.654510] omapdss_dss 58000000.dss: master bind failed: -517
[ 6.662717] Freeing unused kernel memory: 2048K
[ 6.670151] init: init first stage started!
[ 6.674690] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 6.801872] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 16.817904] init: Wait for partitions returned after 10002ms
[ 16.823635] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 16.837368] init: Failed to mount required partitions early ...
[ 16.843375] init: panic: rebooting to bootloader
[ 16.848027] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 16.854851] init: android::WriteStringToFile open failed: No such file or
directory
[ 16.862557] init: Shutdown timeout: 6000 ms
[ 16.866852] init: terminating init services
[ 16.871073] init: waitid failed: No child processes
[ 16.876043] init: Terminating running services took 28ms with remaining
services:0
[ 16.883717] init: waitid failed: No child processes
[ 16.888628] init: vold not running, skipping vold shutdown
[ 16.994687] init: powerctl_shutdown_time_ms:146:0
[ 16.999427] init: Reboot ending, jumping to kernel
[ 17.004614] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 17.010157] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 17.015721] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 17.021256] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 17.028599] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
```

```

[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xffff0000 (3072 kB)
[ 0.000000] vmalloc : 0xf0800000 - 0xff800000 ( 240 MB)
[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000318] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000326] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000733] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000748] pid_max: default: 32768 minimum: 301
[ 0.000822] Security Framework initialized
[ 0.000834] SELinux: Initializing.
[ 0.000908] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000919] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001490] Initializing cgroup subsys io
[ 0.001508] Initializing cgroup subsys memory
[ 0.001534] Initializing cgroup subsys devices
[ 0.001547] Initializing cgroup subsys freezer
[ 0.001558] Initializing cgroup subsys perf_event
[ 0.001569] Initializing cgroup subsys pids
[ 0.001609] CPU: Testing write buffer coherency: ok
[ 0.001858] /cpus/cpu@0 missing clock-frequency property
[ 0.001876] /cpus/cpu@1 missing clock-frequency property
[ 0.001885] CPU0: update cpu_capacity 1024
[ 0.001893] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001938] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080487] CPU1: failed to come online
[ 1.080517] Brought up 1 CPUs
[ 1.080527] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080533] CPU: All CPU(s) started in HYP mode.
[ 1.080540] CPU: Virtualization extensions available.
[ 1.080572] CPU0: update max cpu_capacity 1024
[ 1.120892] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121916] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220908] omap_hwmod: cal: no dt node
[ 1.220919] -----[ cut here ]-----
[ 1.220934] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523

```

```

_init+0x2d4/0x440()
[ 1.220941] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220947] Modules linked in:
[ 1.220962] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220969] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220976] Backtrace:
[ 1.220993] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.221000] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221028] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221041] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221047] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221070] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221076] r3:c0e065f8 r2:c0e03fe0
[ 1.221087] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221108] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221115] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221136] r4:c1217c48
[ 1.221149] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221155] r5:c120bd68 r4:00000001
[ 1.221172] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221178] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221198] r4:00000001
[ 1.221212] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221218] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221238] r4:00000000
[ 1.221252] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221258] r5:c0b46388 r4:00000000
[ 1.221283] ---[ end trace febf0072fe3e5a9d ]---
[ 1.310162] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310185] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314241] pinctrl core: initialized pinctrl subsystem
[ 1.315261] NET: Registered protocol family 16
[ 1.316394] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360920] cpuidle: using governor ladder
[ 1.420973] cpuidle: using governor menu
[ 1.429950] OMAP GPIO hardware version 0.1
[ 1.434135] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436494] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453849] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453863] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460628] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460937] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461212] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465710] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465721] hw-breakpoint: maximum watchpoint size is 8 bytes.

```



```
[ 1.466215] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466225] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466924] OMAP DMA hardware revision 0.0
[ 1.572060] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573326] edma 43300000.edma: memcpy is disabled
[ 1.578160] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582893] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583088] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583257] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583431] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583737] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583930] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585984] usbcore: registered new interface driver usbfs
[ 1.586043] usbcore: registered new interface driver hub
[ 1.586162] usbcore: registered new device driver usb
[ 1.587675] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602179] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611656] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611768] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612611] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613345] pcf857x 0-0020: probed
[ 1.613956] pcf857x 0-0021: probed
[ 1.614102] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632785] omap_i2c 48072000.i2c: controller timed out
[ 2.652813] pcf857x: probe of 1-0026 failed with error -110
[ 2.653373] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653827] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673031] pcf857x 3-0021: probed
[ 2.673058] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673286] media: Linux media interface: v0.10
[ 2.673340] Linux video capture interface: v2.00
[ 2.673383] pps_core: LinuxPPS API ver. 1 registered
[ 2.673391] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673416] PTP clock support registered
[ 2.673466] EDAC MC: Ver: 3.0.0
[ 2.683432] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683732] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684201] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693383] clocksource: Switched to clocksource arch_sys_counter
[ 2.736553] NET: Registered protocol family 2
[ 2.737153] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737219] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737344] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737400] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737431] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737585] NET: Registered protocol family 1
[ 2.738173] Trying to unpack rootfs image as initramfs...
[ 2.782390] Freeing initrd memory: 1092K
[ 2.783326] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786156] audit: initializing netlink subsys (disabled)
[ 2.786214] audit: type=2000 audit(2.779:1): initialized
[ 2.803660] VFS: Disk quotas dquot_6.6.0
[ 2.803833] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814939] squashfs: version 4.0 (2009/01/31) Phillip Lougher
```

```
[ 2.815196] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815525] fuse init (API version 7.23)
[ 2.820496] bounce: pool size: 64 pages
[ 2.820655] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820670] io scheduler noop registered
[ 2.820681] io scheduler deadline registered
[ 2.820713] io scheduler cfq registered (default)
[ 2.825574] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828957] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828995]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829016]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860518] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860696] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860710] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860721] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860731] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.861146] PCI: bus0: Fast back to back transfers disabled
[ 2.861270] PCI: bus1: Fast back to back transfers enabled
[ 2.861362] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861378] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861391] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861616] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866556] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868999] console [ttyS0] disabled
[ 2.869060] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115930] console [ttyS0] enabled
[ 4.119970] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129319] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139368] [drm] Initialized drm 1.1.0 20060810
[ 4.145640] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322520] brd: module loaded
[ 4.410857] loop: module loaded
[ 4.425610] nand: No NAND device found
[ 4.429384] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439510] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444954] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450814] Creating 7 MTD partitions on "spi32766.0":
[ 4.455995] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472049] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488362] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505279] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521904] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539249] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.555575] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.573338] libphy: Fixed MDIO Bus: probed
[ 4.578063] tun: Universal TUN/TAP device driver, 1.6
[ 4.583137] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589450] CAN device driver interface
[ 4.594443] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653420] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659546] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680273] libphy: 48485000.mdio: probed
[ 4.684368] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692671] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
```

TI DP83867

```
[ 4.701716] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708422] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715442] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723088] PPP generic driver version 2.4.2
[ 4.727587] PPP BSD Compression module registered
[ 4.732315] PPP Deflate Compression module registered
[ 4.737446] PPP MPPE Compression module registered
[ 4.742262] NET: Registered protocol family 24
[ 4.749176] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755800] ehci-pci: EHCI PCI platform driver
[ 4.760312] ehci-platform: EHCI generic platform driver
[ 4.765935] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772165] ohci-pci: OHCI PCI platform driver
[ 4.776787] ohci-platform: OHCI generic platform driver
[ 4.783019] mousedev: PS/2 mouse device common for all mice
[ 4.788824] usbcore: registered new interface driver xpad
[ 4.794334] usbcore: registered new interface driver usb_acecad
[ 4.800322] usbcore: registered new interface driver aiptek
[ 4.806003] usbcore: registered new interface driver gtco
[ 4.811473] usbcore: registered new interface driver hanwang
[ 4.817220] usbcore: registered new interface driver kbtabs
[ 4.823311] i2c /dev entries driver
[ 4.827925] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835058] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841250] gspca_main: v2.14.0 registered
[ 4.849061] device-mapper: uevent: version 1.0.3
[ 4.853866] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859976] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868489] vip 48970000.vip: VPDMA firmware loaded
[ 4.884768] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890417] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896885] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028332] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034406] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042638] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050958] usbcore: registered new interface driver usbhid
[ 5.056608] usbhid: USB HID core driver
[ 5.060751] ashmem: initialized
[ 5.069352] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075541] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084501] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.090080] remoteproc0: 58820000.ipu is available
[ 5.095974] mmc0: new high speed SDIO card at address 0001
[ 5.102689] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111824] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122381] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130778] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138603] remoteproc0: Falling back to user helper
[ 5.143758] remoteproc1: 55020000.ipu is available
[ 5.148657] remoteproc1: Note: remoteproc is still under development and
considered experimental.
```

```
[ 5.157791] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168344] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176749] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184592] remoteproc1: Falling back to user helper
[ 5.189794] remoteproc2: 40800000.dsp is available
[ 5.194737] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203996] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214883] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222701] remoteproc3: 41000000.dsp is available
[ 5.227703] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236792] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247330] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259247] remoteproc2: Falling back to user helper
[ 5.275394] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284258] usbcore: registered new interface driver snd-usb-audio
[ 5.292150] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297488] remoteproc3: Falling back to user helper
[ 5.303741] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309196] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317074] u32 classifier
[ 5.319794]     input device check on
[ 5.323552]     Actions configured
[ 5.326978] Netfilter messages via NETLINK v0.30.
[ 5.331758] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338425] ctnetlink v0.93: registering with nfnetlink.
[ 5.345420] xt_time: kernel timezone is -0000
[ 5.350186] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355764] arp_tables: (C) 2002 David S. Miller
[ 5.360545] Initializing XFRM netlink socket
[ 5.365503] NET: Registered protocol family 10
[ 5.381072] mip6: Mobile IPv6
[ 5.384128] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389884] sit: IPv6 over IPv4 tunneling driver
[ 5.395108] NET: Registered protocol family 17
[ 5.399595] NET: Registered protocol family 15
[ 5.404088] can: controller area network core (rev 20120528 abi 9)
[ 5.410353] NET: Registered protocol family 29
[ 5.414897] can: raw protocol (rev 20120528)
[ 5.419191] can: broadcast manager protocol (rev 20120528 t)
[ 5.424910] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430728] NET: Registered protocol family 41
[ 5.435558] omap_voltage_late_init: Voltage driver support not added
[ 5.442549] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448789] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455047] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461652] Power Management for TI OMAP4+ devices.
[ 5.466814] Registering SWP/SWPB emulation handler
[ 5.472081] registered taskstats version 1
[ 5.477091] dmm 4e000000.dmm: workaround for errata i878 in use
```

```
[ 5.484680] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502195] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511162] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517184] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523639] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531302] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537567] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543847] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551389] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559254] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566804] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572762] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579300] hctosys: unable to open rtc device (rtc0)
[ 5.593466] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601395] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613969] evm_1v8: disabling
[ 5.617046] evm_3v3_sw: disabling
[ 5.620373] aic_dvdd: disabling
[ 5.623610] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629891] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636406] vmmcwl_fixed: disabling
[ 5.639921] evm_3v3_sd: disabling
[ 5.644170] ALSA device list:
[ 5.647153]   No soundcards found.
[ 5.651458] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658813] Freeing unused kernel memory: 2048K
[ 5.667331] init: init first stage started!
[ 5.671798] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799835] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815003] init: Wait for partitions returned after 10001ms
[ 15.820711] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833328] init: Failed to mount required partitions early ...
[ 15.839336] init: panic: rebooting to bootloader
[ 15.845144] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851924] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859677] init: Shutdown timeout: 6000 ms
[ 15.863974] init: terminating init services
[ 15.868198] init: waitid failed: No child processes
[ 15.873117] init: Terminating running services took 27ms with remaining
services:0
[ 15.880793] init: waitid failed: No child processes
[ 15.885747] init: vold not running, skipping vold shutdown
[ 15.991769] init: powerctl_shutdown_time_ms:146:0
[ 15.996531] init: Reboot ending, jumping to kernel
[ 16.001704] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007269] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012811] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018361] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025726] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size 64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size 32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
```

```
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000319] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000327] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000736] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000750] pid_max: default: 32768 minimum: 301
[ 0.000824] Security Framework initialized
[ 0.000835] SELinux: Initializing.
[ 0.000908] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000918] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001490] Initializing cgroup subsys io
```

```

[ 0.001508] Initializing cgroup subsys memory
[ 0.001533] Initializing cgroup subsys devices
[ 0.001545] Initializing cgroup subsys freezer
[ 0.001557] Initializing cgroup subsys perf_event
[ 0.001569] Initializing cgroup subsys pids
[ 0.001607] CPU: Testing write buffer coherency: ok
[ 0.001851] /cpus/cpu@0 missing clock-frequency property
[ 0.001869] /cpus/cpu@1 missing clock-frequency property
[ 0.001878] CPU0: update cpu_capacity 1024
[ 0.001886] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001932] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080484] CPU1: failed to come online
[ 1.080515] Brought up 1 CPUs
[ 1.080524] SMP: Total of 1 processors activated (12.29 BogomIPS).
[ 1.080531] CPU: All CPU(s) started in HYP mode.
[ 1.080537] CPU: Virtualization extensions available.
[ 1.080569] CPU0: update max cpu_capacity 1024
[ 1.120896] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121928] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220977] omap_hwmod: cal: no dt node
[ 1.220988] -----[ cut here ]-----
[ 1.221003] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221010] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221016] Modules linked in:
[ 1.221031] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221039] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221046] Backtrace:
[ 1.221062] [

```



```
[ 1.221322] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221328] r5:c0b46388 r4:00000000
[ 1.221354] ---[ end trace 72e7d2217cb93dfd ]---
[ 1.309727] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309750] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314200] pinctrl core: initialized pinctrl subsystem
[ 1.315213] NET: Registered protocol family 16
[ 1.316347] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360920] cpuidle: using governor ladder
[ 1.420971] cpuidle: using governor menu
[ 1.429955] OMAP GPIO hardware version 0.1
[ 1.434140] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436489] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453803] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453817] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460583] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460891] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461165] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465657] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465669] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466156] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466166] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466866] OMAP DMA hardware revision 0.0
[ 1.572068] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573343] edma 43300000.edma: memcpy is disabled
[ 1.578216] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582955] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583151] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583320] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583496] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583801] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583993] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586047] usbcore: registered new interface driver usbfs
[ 1.586109] usbcore: registered new interface driver hub
[ 1.586226] usbcore: registered new device driver usb
[ 1.587741] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602223] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611686] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611797] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612636] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613366] pcf857x 0-0020: probed
[ 1.613973] pcf857x 0-0021: probed
[ 1.614118] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632827] omap_i2c 48072000.i2c: controller timed out
[ 2.652855] pcf857x: probe of 1-0026 failed with error -110
[ 2.653413] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653869] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673073] pcf857x 3-0021: probed
[ 2.673100] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673332] media: Linux media interface: v0.10
[ 2.673385] Linux video capture interface: v2.00
[ 2.673427] pps_core: LinuxPPS API ver. 1 registered
[ 2.673435] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
```

```
<giometti@linux.it>
[ 2.673461] PTP clock support registered
[ 2.673512] EDAC MC: Ver: 3.0.0
[ 2.683472] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683769] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684235] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693421] clocksource: Switched to clocksource arch_sys_counter
[ 2.736795] NET: Registered protocol family 2
[ 2.737395] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737460] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737585] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737639] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737670] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737825] NET: Registered protocol family 1
[ 2.738415] Trying to unpack rootfs image as initramfs...
[ 2.782544] Freeing initrd memory: 1092K
[ 2.783616] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786327] audit: initializing netlink subsys (disabled)
[ 2.786385] audit: type=2000 audit(2.779:1): initialized
[ 2.803753] VFS: Disk quotas dquot_6.6.0
[ 2.803924] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815044] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815302] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815633] fuse init (API version 7.23)
[ 2.820599] bounce: pool size: 64 pages
[ 2.820757] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820771] io scheduler noop registered
[ 2.820784] io scheduler deadline registered
[ 2.820816] io scheduler cfq registered (default)
[ 2.825676] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829044] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829083]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829104]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860565] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860744] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860757] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860768] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860778] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861195] PCI: bus0: Fast back to back transfers disabled
[ 2.861317] PCI: bus1: Fast back to back transfers enabled
[ 2.861409] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861424] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861437] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861662] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866587] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869056] console [ttyS0] disabled
[ 2.869117] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116020] console [ttyS0] enabled
[ 4.120052] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129399] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139456] [drm] Initialized drm 1.1.0 20060810
[ 4.145735] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322598] brd: module loaded
[ 4.410928] loop: module loaded
[ 4.425675] nand: No NAND device found
```

```
[ 4.429449] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439578] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445025] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450882] Creating 7 MTD partitions on "spi32766.0":
[ 4.456063] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.472123] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.488439] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505352] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.521970] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539315] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555640] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573396] libphy: Fixed MDIO Bus: probed
[ 4.578129] tun: Universal TUN/TAP device driver, 1.6
[ 4.583203] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589514] CAN device driver interface
[ 4.594505] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653460] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659586] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680148] libphy: 48485000.mdio: probed
[ 4.684245] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692549] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701597] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708304] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715322] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.722963] PPP generic driver version 2.4.2
[ 4.727460] PPP BSD Compression module registered
[ 4.732189] PPP Deflate Compression module registered
[ 4.737319] PPP MPPE Compression module registered
[ 4.742135] NET: Registered protocol family 24
[ 4.749040] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755662] ehci-pci: EHCI PCI platform driver
[ 4.760174] ehci-platform: EHCI generic platform driver
[ 4.765794] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772025] ohci-pci: OHCI PCI platform driver
[ 4.776658] ohci-platform: OHCI generic platform driver
[ 4.782888] mousedev: PS/2 mouse device common for all mice
[ 4.788690] usbcore: registered new interface driver xpad
[ 4.794200] usbcore: registered new interface driver usb_acecad
[ 4.800187] usbcore: registered new interface driver aiptek
[ 4.805869] usbcore: registered new interface driver gtco
[ 4.811338] usbcore: registered new interface driver hanwang
[ 4.817085] usbcore: registered new interface driver kftab
[ 4.823172] i2c /dev entries driver
[ 4.827778] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834913] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841106] gspca_main: v2.14.0 registered
[ 4.848930] device-mapper: uevent: version 1.0.3
[ 4.853732] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859844] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868356] vip 48970000.vip: VPDMA firmware loaded
[ 4.884783] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890438] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896904] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028368] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034444] omap_hsmmc 480d1000.mmc: card claims to support voltages below
```

```
defined range
[ 5.042679] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051041] usbcore: registered new interface driver usbhid
[ 5.056689] usbhid: USB HID core driver
[ 5.060835] ashmem: initialized
[ 5.069437] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076629] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082295] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091094] mmc0: new high speed SDIO card at address 0001
[ 5.096676] remoteproc0: 58820000.ipu is available
[ 5.101575] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111907] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122467] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130859] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138685] remoteproc0: Falling back to user helper
[ 5.143838] remoteproc1: 55020000.ipu is available
[ 5.148736] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157869] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168421] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176826] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184671] remoteproc1: Falling back to user helper
[ 5.189875] remoteproc2: 40800000.dsp is available
[ 5.194817] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204076] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214951] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222771] remoteproc3: 41000000.dsp is available
[ 5.227769] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236857] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247396] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259316] remoteproc2: Falling back to user helper
[ 5.275455] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284316] usbcore: registered new interface driver snd-usb-audio
[ 5.292214] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297547] remoteproc3: Falling back to user helper
[ 5.303796] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309252] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317127] u32 classifier
[ 5.319846] input device check on
[ 5.323602] Actions configured
[ 5.327028] Netfilter messages via NETLINK v0.30.
[ 5.331809] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338477] ctnetlink v0.93: registering with nfnetlink.
[ 5.345475] xt_time: kernel timezone is -0000
```

```
[ 5.350239] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355817] arp_tables: (C) 2002 David S. Miller
[ 5.360599] Initializing XFRM netlink socket
[ 5.365568] NET: Registered protocol family 10
[ 5.381138] mip6: Mobile IPv6
[ 5.384193] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389946] sit: IPv6 over IPv4 tunneling driver
[ 5.395172] NET: Registered protocol family 17
[ 5.399660] NET: Registered protocol family 15
[ 5.404151] can: controller area network core (rev 20120528 abi 9)
[ 5.410415] NET: Registered protocol family 29
[ 5.414957] can: raw protocol (rev 20120528)
[ 5.419251] can: broadcast manager protocol (rev 20120528 t)
[ 5.424967] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430784] NET: Registered protocol family 41
[ 5.435614] omap_voltage_late_init: Voltage driver support not added
[ 5.442599] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448838] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455096] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461699] Power Management for TI OMAP4+ devices.
[ 5.466864] Registering SWP/SWPB emulation handler
[ 5.472132] registered taskstats version 1
[ 5.477138] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484725] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502253] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511238] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517269] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523725] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531404] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537670] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543949] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551493] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559354] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566907] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572864] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579401] hctosys: unable to open rtc device (rtc0)
[ 5.593506] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601431] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614087] evm_1v8: disabling
[ 5.617163] evm_3v3_sw: disabling
[ 5.620491] aic_dvdd: disabling
[ 5.623729] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.630014] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636529] vmmcw1_fixed: disabling
[ 5.640044] evm_3v3_sd: disabling
[ 5.644282] ALSA device list:
[ 5.647265]   No soundcards found.
[ 5.651578] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658932] Freeing unused kernel memory: 2048K
[ 5.667449] init: init first stage started!
[ 5.671914] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799992] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815044] init: Wait for partitions returned after 10001ms
[ 15.820753] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833372] init: Failed to mount required partitions early ...
[ 15.839379] init: panic: rebooting to bootloader
[ 15.845189] init: Reboot start, reason: reboot, rebootTarget: bootloader
```

```
[ 15.851971] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859724] init: Shutdown timeout: 6000 ms
[ 15.864021] init: terminating init services
[ 15.868244] init: waitid failed: No child processes
[ 15.873163] init: Terminating running services took 27ms with remaining
services:0
[ 15.880839] init: waitid failed: No child processes
[ 15.885792] init: vold not running, skipping vold shutdown
[ 15.991812] init: powerctl_shutdown_time_ms:146:0
[ 15.996574] init: Reboot ending, jumping to kernel
[ 16.001744] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007309] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012849] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018402] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025760] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector  : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap  : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
```

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[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000318] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000326] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000730] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000743] pid_max: default: 32768 minimum: 301
[ 0.000817] Security Framework initialized
[ 0.000829] SELinux: Initializing.
[ 0.000903] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000914] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001484] Initializing cgroup subsys io
[ 0.001502] Initializing cgroup subsys memory
[ 0.001527] Initializing cgroup subsys devices
[ 0.001540] Initializing cgroup subsys freezer
[ 0.001551] Initializing cgroup subsys perf_event
[ 0.001563] Initializing cgroup subsys pids
[ 0.001601] CPU: Testing write buffer coherency: ok
[ 0.001846] /cpus/cpu@0 missing clock-frequency property
[ 0.001864] /cpus/cpu@1 missing clock-frequency property
[ 0.001873] CPU0: update cpu_capacity 1024
[ 0.001882] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001927] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080481] CPU1: failed to come online
[ 1.080512] Brought up 1 CPUs
[ 1.080521] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080528] CPU: All CPU(s) started in HYP mode.
[ 1.080535] CPU: Virtualization extensions available.
[ 1.080567] CPU0: update max cpu_capacity 1024
[ 1.120893] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121925] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220770] omap_hwmod: cal: no dt node
[ 1.220781] -----[ cut here ]-----
[ 1.220796] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220803] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220809] Modules linked in:
[ 1.220823] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220831] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220837] Backtrace:
[ 1.220854] [] (dump_backtrace) from [

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[ 1.220909] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220932] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.220938] r3:c0e065f8 r2:c0e03fe0
[ 1.220949] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.220970] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.220976] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.220998] r4:c1217c48
[ 1.221012] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221018] r5:c120bd68 r4:00000001
[ 1.221035] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221041] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221062] r4:00000001
[ 1.221075] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221081] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221101] r4:00000000
[ 1.221115] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221121] r5:c0b46388 r4:00000000
[ 1.221147] ---[ end trace cb633f8532a3aa59 ]---
[ 1.309513] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309535] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314220] pinctrl core: initialized pinctrl subsystem
[ 1.315239] NET: Registered protocol family 16
[ 1.316357] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360919] cpuidle: using governor ladder
[ 1.420971] cpuidle: using governor menu
[ 1.429969] OMAP GPIO hardware version 0.1
[ 1.434162] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436520] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453845] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453859] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460631] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460943] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461213] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465697] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465707] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466193] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466203] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466900] OMAP DMA hardware revision 0.0
[ 1.572056] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573322] edma 43300000.edma: memcpy is disabled
[ 1.578160] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582886] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583081] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583250] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583426] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583729] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583920] omap-iommu 41502000.mmu: 41502000.mmu registered
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[ 1.585979] usbcore: registered new interface driver usbfs
[ 1.586040] usbcore: registered new interface driver hub
[ 1.586155] usbcore: registered new device driver usb
[ 1.587666] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602161] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611643] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611755] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612597] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613339] pcf857x 0-0020: probed
[ 1.613953] pcf857x 0-0021: probed
[ 1.614099] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632789] omap_i2c 48072000.i2c: controller timed out
[ 2.652817] pcf857x: probe of 1-0026 failed with error -110
[ 2.653374] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653830] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673035] pcf857x 3-0021: probed
[ 2.673062] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673291] media: Linux media interface: v0.10
[ 2.673347] Linux video capture interface: v2.00
[ 2.673390] pps_core: LinuxPPS API ver. 1 registered
[ 2.673397] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673423] PTP clock support registered
[ 2.673473] EDAC MC: Ver: 3.0.0
[ 2.683431] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683732] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684200] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693386] clocksource: Switched to clocksource arch_sys_counter
[ 2.736564] NET: Registered protocol family 2
[ 2.737164] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737229] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737355] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737410] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737442] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737595] NET: Registered protocol family 1
[ 2.738186] Trying to unpack rootfs image as initramfs...
[ 2.782383] Freeing initrd memory: 1092K
[ 2.783309] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786148] audit: initializing netlink subsys (disabled)
[ 2.786206] audit: type=2000 audit(2.779:1): initialized
[ 2.803605] VFS: Disk quotas dquot_6.6.0
[ 2.803777] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814891] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815147] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815476] fuse init (API version 7.23)
[ 2.820437] bounce: pool size: 64 pages
[ 2.820597] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820611] io scheduler noop registered
[ 2.820622] io scheduler deadline registered
[ 2.820653] io scheduler cfq registered (default)
[ 2.825504] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828950] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.828987] IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829008] MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860528] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860707] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
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[ 2.860721] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860731] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860741] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861155] PCI: bus0: Fast back to back transfers disabled
[ 2.861280] PCI: bus1: Fast back to back transfers enabled
[ 2.861371] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861387] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861400] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861625] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866563] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869011] console [ttyS0] disabled
[ 2.869073] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115971] console [ttyS0] enabled
[ 4.120007] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129352] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139393] [drm] Initialized drm 1.1.0 20060810
[ 4.145673] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322566] brd: module loaded
[ 4.410903] loop: module loaded
[ 4.425657] nand: No NAND device found
[ 4.429430] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439563] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445008] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450866] Creating 7 MTD partitions on "spi32766.0":
[ 4.456048] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472106] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488416] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505329] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.521950] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539298] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555625] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573415] libphy: Fixed MDIO Bus: probed
[ 4.578081] tun: Universal TUN/TAP device driver, 1.6
[ 4.583154] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589491] CAN device driver interface
[ 4.594486] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653422] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659549] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680334] libphy: 48485000.mdio: probed
[ 4.684429] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692732] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701781] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708485] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715509] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723151] PPP generic driver version 2.4.2
[ 4.727648] PPP BSD Compression module registered
[ 4.732377] PPP Deflate Compression module registered
[ 4.737507] PPP MPPE Compression module registered
[ 4.742323] NET: Registered protocol family 24
[ 4.749238] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755862] ehci-pci: EHCI PCI platform driver
[ 4.760373] ehci-platform: EHCI generic platform driver
[ 4.765994] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
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[ 4.772226] ohci-pci: OHCI PCI platform driver
[ 4.776850] ohci-platform: OHCI generic platform driver
[ 4.783080] mousedev: PS/2 mouse device common for all mice
[ 4.788882] usbcore: registered new interface driver xpad
[ 4.794391] usbcore: registered new interface driver usb_acecad
[ 4.800380] usbcore: registered new interface driver aiptek
[ 4.806061] usbcore: registered new interface driver gtco
[ 4.811531] usbcore: registered new interface driver hanwang
[ 4.817277] usbcore: registered new interface driver kbtabs
[ 4.823361] i2c /dev entries driver
[ 4.827966] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835092] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841288] gspca_main: v2.14.0 registered
[ 4.849109] device-mapper: uevent: version 1.0.3
[ 4.853918] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860031] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868543] vip 48970000.vip: VPDMA firmware loaded
[ 4.884829] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890486] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896953] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028336] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034413] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042646] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051021] usbcore: registered new interface driver usbhid
[ 5.056669] usbhid: USB HID core driver
[ 5.060816] ashmem: initialized
[ 5.069402] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076599] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082275] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091061] mmc0: new high speed SDIO card at address 0001
[ 5.096643] remoteproc0: 58820000.ipu is available
[ 5.101542] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111878] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122433] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130831] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138656] remoteproc0: Falling back to user helper
[ 5.143809] remoteproc1: 55020000.ipu is available
[ 5.148707] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157841] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168394] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176799] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184644] remoteproc1: Falling back to user helper
[ 5.189848] remoteproc2: 40800000.dsp is available
[ 5.194788] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204048] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214933] omap-rproc 41000000.dsp: assigned reserved memory node
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dsp2_cma@9f000000
[ 5.222753] remoteproc3: 41000000.dsp is available
[ 5.227755] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236843] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247382] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259298] remoteproc2: Falling back to user helper
[ 5.275436] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284301] usbcore: registered new interface driver snd-usb-audio
[ 5.292197] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297533] remoteproc3: Falling back to user helper
[ 5.303784] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309239] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317120] u32 classifier
[ 5.319841]     input device check on
[ 5.323598]     Actions configured
[ 5.327024] Netfilter messages via NETLINK v0.30.
[ 5.331806] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338479] ctnetlink v0.93: registering with nfnetlink.
[ 5.345478] xt_time: kernel timezone is -0000
[ 5.350242] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355821] arp_tables: (C) 2002 David S. Miller
[ 5.360603] Initializing XFRM netlink socket
[ 5.365559] NET: Registered protocol family 10
[ 5.381135] mip6: Mobile IPv6
[ 5.384192] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389953] sit: IPv6 over IPv4 tunneling driver
[ 5.395179] NET: Registered protocol family 17
[ 5.399665] NET: Registered protocol family 15
[ 5.404160] can: controller area network core (rev 20120528 abi 9)
[ 5.410426] NET: Registered protocol family 29
[ 5.414969] can: raw protocol (rev 20120528)
[ 5.419264] can: broadcast manager protocol (rev 20120528 t)
[ 5.424980] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430805] NET: Registered protocol family 41
[ 5.435633] omap_voltage_late_init: Voltage driver support not added
[ 5.442621] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448859] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455119] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461721] Power Management for TI OMAP4+ devices.
[ 5.466886] Registering SWP/SWPB emulation handler
[ 5.472152] registered taskstats version 1
[ 5.477160] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484741] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502251] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511219] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517245] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523703] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531371] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537638] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543918] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551466] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559338] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566898] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572850] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579387] hctosys: unable to open rtc device (rtc0)
```

```
[ 5.593468] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601400] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614021] evm_1v8: disabling
[ 5.617096] evm_3v3_sw: disabling
[ 5.620425] aic_dvdd: disabling
[ 5.623665] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629947] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636460] vmmcwl_fixed: disabling
[ 5.639973] evm_3v3_sd: disabling
[ 5.643563] ALSA device list:
[ 5.646543]   No soundcards found.
[ 5.651459] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658823] Freeing unused kernel memory: 2048K
[ 5.667338] init: init first stage started!
[ 5.671805] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799737] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815006] init: Wait for partitions returned after 10001ms
[ 15.820716] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833335] init: Failed to mount required partitions early ...
[ 15.839343] init: panic: rebooting to bootloader
[ 15.845154] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851935] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859688] init: Shutdown timeout: 6000 ms
[ 15.863985] init: terminating init services
[ 15.868208] init: waitid failed: No child processes
[ 15.873127] init: Terminating running services took 27ms with remaining
services:0
[ 15.880804] init: waitid failed: No child processes
[ 15.885758] init: vold not running, skipping vold shutdown
[ 15.991774] init: powerctl_shutdown_time_ms:146:0
[ 15.996534] init: Reboot ending, jumping to kernel
[ 16.001702] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007268] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012810] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018360] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025723] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...

Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
```

```
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbf000000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbf000000   (   14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000318] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000326] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000727] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000742] pid_max: default: 32768 minimum: 301
[ 0.000816] Security Framework initialized
[ 0.000827] SELinux: Initializing.
[ 0.000901] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000911] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001482] Initializing cgroup subsys io
[ 0.001500] Initializing cgroup subsys memory
[ 0.001525] Initializing cgroup subsys devices
[ 0.001537] Initializing cgroup subsys freezer
[ 0.001548] Initializing cgroup subsys perf_event
[ 0.001560] Initializing cgroup subsys pids
[ 0.001599] CPU: Testing write buffer coherency: ok
[ 0.001847] /cpus/cpu@0 missing clock-frequency property
[ 0.001864] /cpus/cpu@1 missing clock-frequency property
[ 0.001873] CPU0: update cpu_capacity 1024
[ 0.001883] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001928] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080500] CPU1: failed to come online
[ 1.080531] Brought up 1 CPUs
```



```
[ 1.080540] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080547] CPU: All CPU(s) started in HYP mode.
[ 1.080553] CPU: Virtualization extensions available.
[ 1.080585] CPU0: update max cpu_capacity 1024
[ 1.120911] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121928] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220756] omap_hwmod: cal: no dt node
[ 1.220767] -----[ cut here ]-----
[ 1.220782] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220789] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220795] Modules linked in:
[ 1.220810] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220818] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220824] Backtrace:
[ 1.220841] [
```

```

[ 1.434086] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436429] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453695] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453709] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460460] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460769] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461010] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465545] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465557] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466042] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466052] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466753] OMAP DMA hardware revision 0.0
[ 1.572018] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573288] edma 43300000.edma: memcpy is disabled
[ 1.578104] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582833] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583028] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583197] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583374] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583681] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583873] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585930] usbcore: registered new interface driver usbfs
[ 1.585989] usbcore: registered new interface driver hub
[ 1.586103] usbcore: registered new device driver usb
[ 1.587614] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602103] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611579] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611690] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612537] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613265] pcf857x 0-0020: probed
[ 1.613881] pcf857x 0-0021: probed
[ 1.614028] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632714] omap_i2c 48072000.i2c: controller timed out
[ 2.652742] pcf857x: probe of 1-0026 failed with error -110
[ 2.653305] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653760] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672962] pcf857x 3-0021: probed
[ 2.672989] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673220] media: Linux media interface: v0.10
[ 2.673275] Linux video capture interface: v2.00
[ 2.673319] pps_core: LinuxPPS API ver. 1 registered
[ 2.673326] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673352] PTP clock support registered
[ 2.673403] EDAC MC: Ver: 3.0.0
[ 2.683355] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683654] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684118] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693310] clocksource: Switched to clocksource arch_sys_counter
[ 2.736642] NET: Registered protocol family 2
[ 2.737248] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737313] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737439] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737492] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737524] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)

```

```
[ 2.737679] NET: Registered protocol family 1
[ 2.738266] Trying to unpack rootfs image as initramfs...
[ 2.782449] Freeing initrd memory: 1092K
[ 2.783512] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786210] audit: initializing netlink subsys (disabled)
[ 2.786269] audit: type=2000 audit(2.779:1): initialized
[ 2.803671] VFS: Disk quotas dquot_6.6.0
[ 2.803844] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814969] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815224] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815552] fuse init (API version 7.23)
[ 2.820538] bounce: pool size: 64 pages
[ 2.820701] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820715] io scheduler noop registered
[ 2.820727] io scheduler deadline registered
[ 2.820759] io scheduler cfq registered (default)
[ 2.825614] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828989] PCI host bridge /ocp/axi0@/pcie_rc@51000000 ranges:
[ 2.829026]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829049]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860662] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860841] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860855] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860865] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860875] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861288] PCI: bus0: Fast back to back transfers disabled
[ 2.861412] PCI: bus1: Fast back to back transfers enabled
[ 2.861503] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861519] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861532] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861757] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866650] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869106] console [ttyS0] disabled
[ 2.869168] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116041] console [ttyS0] enabled
[ 4.120083] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129431] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139487] [drm] Initialized drm 1.1.0 20060810
[ 4.145793] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322695] brd: module loaded
[ 4.411039] loop: module loaded
[ 4.425778] nand: No NAND device found
[ 4.429551] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439675] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445121] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450979] Creating 7 MTD partitions on "spi32766.0":
[ 4.456162] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472216] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488525] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505440] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522061] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539402] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555733] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573514] libphy: Fixed MDIO Bus: probed
[ 4.578186] tun: Universal TUN/TAP device driver, 1.6
```

```
[ 4.583259] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589594] CAN device driver interface
[ 4.594587] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653348] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659475] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680320] libphy: 48485000.mdio: probed
[ 4.684415] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692719] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701765] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708472] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715499] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723135] PPP generic driver version 2.4.2
[ 4.727632] PPP BSD Compression module registered
[ 4.732360] PPP Deflate Compression module registered
[ 4.737488] PPP MPPE Compression module registered
[ 4.742305] NET: Registered protocol family 24
[ 4.749240] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755865] ehci-pci: EHCI PCI platform driver
[ 4.760378] ehci-platform: EHCI generic platform driver
[ 4.766000] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772233] ohci-pci: OHCI PCI platform driver
[ 4.776832] ohci-platform: OHCI generic platform driver
[ 4.783061] mousedev: PS/2 mouse device common for all mice
[ 4.788860] usbcore: registered new interface driver xpad
[ 4.794369] usbcore: registered new interface driver usb_acecad
[ 4.800356] usbcore: registered new interface driver aiptek
[ 4.806039] usbcore: registered new interface driver gtco
[ 4.811507] usbcore: registered new interface driver hanwang
[ 4.817255] usbcore: registered new interface driver kbtabs
[ 4.823373] i2c /dev entries driver
[ 4.827965] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835097] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841286] gspca_main: v2.14.0 registered
[ 4.849072] device-mapper: uevent: version 1.0.3
[ 4.853880] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859994] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868506] vip 48970000.vip: VPDMA firmware loaded
[ 4.884799] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890453] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896919] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028250] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034325] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042560] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050918] usbcore: registered new interface driver usbhid
[ 5.056565] usbhid: USB HID core driver
[ 5.060709] ashmem: initialized
[ 5.069313] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076483] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082150] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090945] mmc0: new high speed SDIO card at address 0001
[ 5.096528] remoteproc0: 58820000.ipu is available
[ 5.101427] remoteproc0: Note: remoteproc is still under development and
considered experimental.
```

```
[ 5.111759] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122316] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130711] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138536] remoteproc0: Falling back to user helper
[ 5.143690] remoteproc1: 55020000.ipu is available
[ 5.148589] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157723] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168274] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176677] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184522] remoteproc1: Falling back to user helper
[ 5.189726] remoteproc2: 40800000.dsp is available
[ 5.194667] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203926] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214805] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222624] remoteproc3: 41000000.dsp is available
[ 5.227624] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236711] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247252] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259171] remoteproc2: Falling back to user helper
[ 5.275333] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284198] usbcore: registered new interface driver snd-usb-audio
[ 5.292090] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297430] remoteproc3: Falling back to user helper
[ 5.303682] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309137] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317020] u32 classifier
[ 5.319741]     input device check on
[ 5.323499]     Actions configured
[ 5.326925] Netfilter messages via NETLINK v0.30.
[ 5.331704] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338374] ctnetlink v0.93: registering with nfnetlink.
[ 5.345371] xt_time: kernel timezone is -0000
[ 5.350136] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355716] arp_tables: (C) 2002 David S. Miller
[ 5.360498] Initializing XFRM netlink socket
[ 5.365450] NET: Registered protocol family 10
[ 5.381028] mip6: Mobile IPv6
[ 5.384084] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389837] sit: IPv6 over IPv4 tunneling driver
[ 5.395056] NET: Registered protocol family 17
[ 5.399544] NET: Registered protocol family 15
[ 5.404038] can: controller area network core (rev 20120528 abi 9)
[ 5.410302] NET: Registered protocol family 29
[ 5.414844] can: raw protocol (rev 20120528)
[ 5.419138] can: broadcast manager protocol (rev 20120528 t)
```

```
[ 5.424854] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430675] NET: Registered protocol family 41
[ 5.435499] omap_voltage_late_init: Voltage driver support not added
[ 5.442486] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448723] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454981] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461581] Power Management for TI OMAP4+ devices.
[ 5.466748] Registering SWP/SWPB emulation handler
[ 5.472015] registered taskstats version 1
[ 5.477007] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484592] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502111] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511078] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517102] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523558] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531233] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537501] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543780] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551329] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559187] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566739] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572700] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579238] hctosys: unable to open rtc device (rtc0)
[ 5.593394] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601322] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613975] evm_1v8: disabling
[ 5.617053] evm_3v3_sw: disabling
[ 5.620380] aic_dvdd: disabling
[ 5.623619] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629900] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636414] vmmcwl_fixed: disabling
[ 5.639928] evm_3v3_sd: disabling
[ 5.644167] ALSA device list:
[ 5.647150]   No soundcards found.
[ 5.651457] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658812] Freeing unused kernel memory: 2048K
[ 5.667339] init: init first stage started!
[ 5.671807] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799734] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814930] init: Wait for partitions returned after 10001ms
[ 15.820638] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833257] init: Failed to mount required partitions early ...
[ 15.839264] init: panic: rebooting to bootloader
[ 15.845075] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851855] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859607] init: Shutdown timeout: 6000 ms
[ 15.863906] init: terminating init services
[ 15.868128] init: waitid failed: No child processes
[ 15.873047] init: Terminating running services took 27ms with remaining
services:0
[ 15.880723] init: waitid failed: No child processes
[ 15.885675] init: vold not running, skipping vold shutdown
[ 15.991695] init: powerctl_shutdown_time_ms:146:0
[ 15.996457] init: Reboot ending, jumping to kernel
[ 16.001627] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007191] remoteproc2: failed to load dra7-dsp1-fw.xe66
```

```
[ 16.012734] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018283] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025652] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
```

```
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
```

```
Kernel command line: buildvariant=userdebug
```

```
RAM disk load addr 0x83000000 size 1092 KiB
```

```
## Flattened Device Tree blob at 88000000
```

```
Booting using the fdt blob at 0x88000000
```

```
Loading Kernel Image ... OK
```

```
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
```

```
Loading Device Tree to 8fed1000, end 8feee946 ... OK
```

```
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
```

```

56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000326] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,

```



```
max_idle_ns: 58327039986419 ns
[ 0.000334] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000748] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000762] pid_max: default: 32768 minimum: 301
[ 0.000835] Security Framework initialized
[ 0.000847] SELinux: Initializing.
[ 0.000923] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001502] Initializing cgroup subsys io
[ 0.001521] Initializing cgroup subsys memory
[ 0.001546] Initializing cgroup subsys devices
[ 0.001559] Initializing cgroup subsys freezer
[ 0.001570] Initializing cgroup subsys perf_event
[ 0.001582] Initializing cgroup subsys pids
[ 0.001621] CPU: Testing write buffer coherency: ok
[ 0.001868] /cpus/cpu@0 missing clock-frequency property
[ 0.001886] /cpus/cpu@1 missing clock-frequency property
[ 0.001895] CPU0: update cpu_capacity 1024
[ 0.001904] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001952] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080492] CPU1: failed to come online
[ 1.080524] Brought up 1 CPUs
[ 1.080533] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080540] CPU: All CPU(s) started in HYP mode.
[ 1.080546] CPU: Virtualization extensions available.
[ 1.080579] CPU0: update max cpu_capacity 1024
[ 1.120899] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121932] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.221631] omap_hwmod: cal: no dt node
[ 1.221643] -----[ cut here ]-----
[ 1.221658] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221666] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221672] Modules linked in:
[ 1.221686] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.221694] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221700] Backtrace:
[ 1.221717] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.221724] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221755] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221768] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.221775] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221797] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.221803] r3:c0e065f8 r2:c0e03fe0
[ 1.221814] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221836] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221842] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221863] r4:c1217c48
[ 1.221877] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221884] r5:c120bd68 r4:00000001
```

```
[ 1.221900] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221906] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221927] r4:00000001
[ 1.221941] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221947] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221967] r4:00000000
[ 1.221981] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221987] r5:c0b46388 r4:00000000
[ 1.222012] ---[ end trace 2778f3555235d41a ]---
[ 1.310217] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310239] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314214] pinctrl core: initialized pinctrl subsystem
[ 1.315240] NET: Registered protocol family 16
[ 1.316366] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360927] cpuidle: using governor ladder
[ 1.420980] cpuidle: using governor menu
[ 1.429957] OMAP GPIO hardware version 0.1
[ 1.434136] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436499] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453847] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453860] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460608] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460916] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461188] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465659] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465669] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466155] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466166] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466859] OMAP DMA hardware revision 0.0
[ 1.572091] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573359] edma 43300000.edma: memcpy is disabled
[ 1.578188] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582910] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583102] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583271] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583444] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583750] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583940] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586008] usbcore: registered new interface driver usbfs
[ 1.586069] usbcore: registered new interface driver hub
[ 1.586186] usbcore: registered new device driver usb
[ 1.587691] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602172] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611643] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611757] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612604] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613348] pcf857x 0-0020: probed
[ 1.613960] pcf857x 0-0021: probed
[ 1.614104] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
```

```
[ 2.632785] omap_i2c 48072000.i2c: controller timed out
[ 2.652812] pcf857x: probe of 1-0026 failed with error -110
[ 2.653378] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653837] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673030] pcf857x 3-0021: probed
[ 2.673058] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673284] media: Linux media interface: v0.10
[ 2.673338] Linux video capture interface: v2.00
[ 2.673381] pps_core: LinuxPPS API ver. 1 registered
[ 2.673389] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673415] PTP clock support registered
[ 2.673466] EDAC MC: Ver: 3.0.0
[ 2.683432] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683734] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684202] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693385] clocksource: Switched to clocksource arch_sys_counter
[ 2.736662] NET: Registered protocol family 2
[ 2.737265] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737331] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737456] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737511] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737541] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737695] NET: Registered protocol family 1
[ 2.738280] Trying to unpack rootfs image as initramfs...
[ 2.782471] Freeing initrd memory: 1092K
[ 2.783533] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786251] audit: initializing netlink subsys (disabled)
[ 2.786309] audit: type=2000 audit(2.779:1): initialized
[ 2.803834] VFS: Disk quotas dquot_6.6.0
[ 2.804006] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815131] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815387] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815716] fuse init (API version 7.23)
[ 2.820686] bounce: pool size: 64 pages
[ 2.820846] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820860] io scheduler noop registered
[ 2.820872] io scheduler deadline registered
[ 2.820904] io scheduler cfq registered (default)
[ 2.825769] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829112] PCI host bridge /ocp/axi0/pcie_rc@51000000 ranges:
[ 2.829151]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829173]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860726] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860902] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860917] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860927] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860937] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.861352] PCI: bus0: Fast back to back transfers disabled
[ 2.861474] PCI: bus1: Fast back to back transfers enabled
[ 2.861564] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861580] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861593] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861819] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866726] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869192] console [ttyS0] disabled
[ 2.869253] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
```

```
[ 4.116094] console [ttyS0] enabled
[ 4.120135] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129485] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139533] [drm] Initialized drm 1.1.0 20060810
[ 4.145812] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322706] brd: module loaded
[ 4.411041] loop: module loaded
[ 4.425792] nand: No NAND device found
[ 4.429566] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439702] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445147] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451004] Creating 7 MTD partitions on "spi32766.0":
[ 4.456186] 0x00000000000000-0x00000000400000 : "QSPI.SPL"
[ 4.472240] 0x00000000400000-0x00000001400000 : "QSPI.u-boot"
[ 4.488563] 0x00000001400000-0x00000001c00000 : "QSPI.u-boot-spl-os"
[ 4.505481] 0x00000001c00000-0x00000001d00000 : "QSPI.u-boot-env"
[ 4.522101] 0x00000001d00000-0x00000001e00000 : "QSPI.u-boot-env.backup1"
[ 4.539444] 0x00000001e00000-0x00000009e00000 : "QSPI.kernel"
[ 4.555771] 0x00000009e00000-0x00000020000000 : "QSPI.file-system"
[ 4.573559] libphy: Fixed MDIO Bus: probed
[ 4.578232] tun: Universal TUN/TAP device driver, 1.6
[ 4.583305] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589643] CAN device interface
[ 4.594641] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653424] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659550] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680276] libphy: 48485000.mdio: probed
[ 4.684372] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692674] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701723] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708431] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715447] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723084] PPP generic driver version 2.4.2
[ 4.727581] PPP BSD Compression module registered
[ 4.732311] PPP Deflate Compression module registered
[ 4.737440] PPP MPPE Compression module registered
[ 4.742256] NET: Registered protocol family 24
[ 4.749167] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755789] ehci-pci: EHCI PCI platform driver
[ 4.760299] ehci-platform: EHCI generic platform driver
[ 4.765922] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772154] ohci-pci: OHCI PCI platform driver
[ 4.776790] ohci-platform: OHCI generic platform driver
[ 4.783020] mousedev: PS/2 mouse device common for all mice
[ 4.788819] usbcore: registered new interface driver xpad
[ 4.794329] usbcore: registered new interface driver usb_acecad
[ 4.800315] usbcore: registered new interface driver aiptek
[ 4.805999] usbcore: registered new interface driver gtco
[ 4.811469] usbcore: registered new interface driver hanwang
[ 4.817216] usbcore: registered new interface driver kbtap
[ 4.823300] i2c /dev entries driver
[ 4.827910] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835044] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841234] gspca_main: v2.14.0 registered
```

```
[ 4.849051] device-mapper: uevent: version 1.0.3
[ 4.853859] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859972] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868486] vip 48970000.vip: VPDMA firmware loaded
[ 4.884770] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890428] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896897] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028337] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034412] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042645] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051018] usbcore: registered new interface driver usbhid
[ 5.056667] usbhid: USB HID core driver
[ 5.060811] ashmem: initialized
[ 5.069399] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076572] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082232] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091016] mmc0: new high speed SDIO card at address 0001
[ 5.096598] remoteproc0: 58820000.ipu is available
[ 5.101497] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111829] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122386] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130784] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138607] remoteproc0: Falling back to user helper
[ 5.143760] remoteproc1: 55020000.ipu is available
[ 5.148659] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157792] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168344] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176750] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184595] remoteproc1: Falling back to user helper
[ 5.189800] remoteproc2: 40800000.dsp is available
[ 5.194743] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204003] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214888] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222708] remoteproc3: 41000000.dsp is available
[ 5.227706] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236796] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247332] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259249] remoteproc2: Falling back to user helper
[ 5.275388] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284256] usbcore: registered new interface driver snd-usb-audio
[ 5.292152] davinci-mcasp 48464000.mcasp: DAI is shared
```

```
[ 5.297488] remoteproc3: Falling back to user helper
[ 5.303744] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309200] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317080] u32 classifier
[ 5.319799]     input device check on
[ 5.323557]     Actions configured
[ 5.326983] Netfilter messages via NETLINK v0.30.
[ 5.331765] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338440] ctnetlink v0.93: registering with nfnetlink.
[ 5.345442] xt_time: kernel timezone is -0000
[ 5.350211] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355785] arp_tables: (C) 2002 David S. Miller
[ 5.360570] Initializing XFRM netlink socket
[ 5.365538] NET: Registered protocol family 10
[ 5.381113] mip6: Mobile IPv6
[ 5.384168] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389930] sit: IPv6 over IPv4 tunneling driver
[ 5.395160] NET: Registered protocol family 17
[ 5.399647] NET: Registered protocol family 15
[ 5.404139] can: controller area network core (rev 20120528 abi 9)
[ 5.410403] NET: Registered protocol family 29
[ 5.414945] can: raw protocol (rev 20120528)
[ 5.419240] can: broadcast manager protocol (rev 20120528 t)
[ 5.424954] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430778] NET: Registered protocol family 41
[ 5.435605] omap_voltage_late_init: Voltage driver support not added
[ 5.442592] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448832] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455091] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461693] Power Management for TI OMAP4+ devices.
[ 5.466857] Registering SWP/SWPB emulation handler
[ 5.472124] registered taskstats version 1
[ 5.477124] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484709] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502226] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511197] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517213] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523669] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531342] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537611] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543889] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551442] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559331] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566879] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572838] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579378] hctosys: unable to open rtc device (rtc0)
[ 5.593468] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601389] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614035] evm_1v8: disabling
[ 5.617109] evm_3v3_sw: disabling
[ 5.620437] aic_dvdd: disabling
[ 5.623675] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629957] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636472] vmmcw1_fixed: disabling
[ 5.639985] evm_3v3_sd: disabling
[ 5.644229] ALSA device list:
[ 5.647211]   No soundcards found.
[ 5.651520] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658882] Freeing unused kernel memory: 2048K
```

```
[ 5.667407] init: init first stage started!
[ 5.671876] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799719] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815005] init: Wait for partitions returned after 10001ms
[ 15.820714] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833332] init: Failed to mount required partitions early ...
[ 15.839338] init: panic: rebooting to bootloader
[ 15.845148] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851928] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859680] init: Shutdown timeout: 6000 ms
[ 15.863981] init: terminating init services
[ 15.868205] init: waitid failed: No child processes
[ 15.873123] init: Terminating running services took 27ms with remaining
services:0
[ 15.880801] init: waitid failed: No child processes
[ 15.885754] init: vold not running, skipping vold shutdown
[ 15.991773] init: powerctl_shutdown_time_ms:146:0
[ 15.996533] init: Reboot ending, jumping to kernel
[ 16.001702] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007267] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012808] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018358] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025721] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
```

```
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Kernel Image ... OK
   Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
   Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcb1k0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
```



```

[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000325] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000333] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000747] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000762] pid_max: default: 32768 minimum: 301
[ 0.000837] Security Framework initialized
[ 0.000848] SELinux: Initializing.
[ 0.000923] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001505] Initializing cgroup subsys io
[ 0.001523] Initializing cgroup subsys memory
[ 0.001549] Initializing cgroup subsys devices
[ 0.001562] Initializing cgroup subsys freezer
[ 0.001573] Initializing cgroup subsys perf_event
[ 0.001585] Initializing cgroup subsys pids
[ 0.001625] CPU: Testing write buffer coherency: ok
[ 0.001872] /cpus/cpu@0 missing clock-frequency property
[ 0.001890] /cpus/cpu@1 missing clock-frequency property
[ 0.001899] CPU0: update cpu_capacity 1024
[ 0.001907] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001955] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080483] CPU1: failed to come online
[ 1.080514] Brought up 1 CPUs
[ 1.080523] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080530] CPU: All CPU(s) started in HYP mode.
[ 1.080536] CPU: Virtualization extensions available.
[ 1.080568] CPU0: update max cpu_capacity 1024
[ 1.120896] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121928] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220766] omap_hwmod: cal: no dt node
[ 1.220777] -----[ cut here ]-----
[ 1.220793] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220800] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220806] Modules linked in:

```

```
[ 1.220820] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220828] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220835] Backtrace:
[ 1.220852] [
```

```
[ 1.572074] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573347] edma 43300000.edma: memcpy is disabled
[ 1.578185] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582929] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583125] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583295] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583470] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583776] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583968] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586023] usbcore: registered new interface driver usbfs
[ 1.586082] usbcore: registered new interface driver hub
[ 1.586198] usbcore: registered new device driver usb
[ 1.587706] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602202] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611685] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611797] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612637] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613370] pcf857x 0-0020: probed
[ 1.613980] pcf857x 0-0021: probed
[ 1.614129] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632813] omap_i2c 48072000.i2c: controller timed out
[ 2.652841] pcf857x: probe of 1-0026 failed with error -110
[ 2.653408] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653865] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673057] pcf857x 3-0021: probed
[ 2.673084] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673315] media: Linux media interface: v0.10
[ 2.673369] Linux video capture interface: v2.00
[ 2.673412] pps_core: LinuxPPS API ver. 1 registered
[ 2.673419] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673444] PTP clock support registered
[ 2.673493] EDAC MC: Ver: 3.0.0
[ 2.683458] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683756] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684224] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693416] clocksource: Switched to clocksource arch_sys_counter
[ 2.736642] NET: Registered protocol family 2
[ 2.737242] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737308] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737433] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737488] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737520] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737672] NET: Registered protocol family 1
[ 2.738263] Trying to unpack rootfs image as initramfs...
[ 2.782453] Freeing initrd memory: 1092K
[ 2.783386] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786216] audit: initializing netlink subsys (disabled)
[ 2.786275] audit: type=2000 audit(2.779:1): initialized
[ 2.803627] VFS: Disk quotas dquot_6.6.0
[ 2.803800] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814905] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815164] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815493] fuse init (API version 7.23)
[ 2.820470] bounce: pool size: 64 pages
```

```
[ 2.820630] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820644] io scheduler noop registered
[ 2.820655] io scheduler deadline registered
[ 2.820686] io scheduler cfq registered (default)
[ 2.825545] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828989] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829028]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829050]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860683] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860862] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860876] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860887] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860897] pci_bus 0000:00: root bus resource [mem 0x20013000-0xffffffff]
[ 2.861314] PCI: bus0: Fast back to back transfers disabled
[ 2.861439] PCI: bus1: Fast back to back transfers enabled
[ 2.861530] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861546] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861558] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861783] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866714] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869179] console [ttyS0] disabled
[ 2.869242] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116119] console [ttyS0] enabled
[ 4.120154] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129500] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139549] [drm] Initialized drm 1.1.0 20060810
[ 4.145849] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322740] brd: module loaded
[ 4.411073] loop: module loaded
[ 4.425807] nand: No NAND device found
[ 4.429581] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439706] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445152] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451010] Creating 7 MTD partitions on "spi32766.0":
[ 4.456192] 0x000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.472246] 0x0000000040000-0x00000000140000 : "QSPI.u-boot"
[ 4.488561] 0x00000000140000-0x000000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505477] 0x000000001c0000-0x000000001d0000 : "QSPI.u-boot-env"
[ 4.522093] 0x000000001d0000-0x000000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539438] 0x000000001e0000-0x000000009e0000 : "QSPI.kernel"
[ 4.555761] 0x000000009e0000-0x000000002000000 : "QSPI.file-system"
[ 4.573555] libphy: Fixed MDIO Bus: probed
[ 4.578218] tun: Universal TUN/TAP device driver, 1.6
[ 4.583291] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589628] CAN device driver interface
[ 4.594627] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653454] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659581] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680155] libphy: 48485000.mdio: probed
[ 4.684252] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692555] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701603] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708311] cpsw 48484000.ethernet: cpts: overflow check period 800
```

```
[ 4.715331] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.722964] PPP generic driver version 2.4.2
[ 4.727465] PPP BSD Compression module registered
[ 4.732194] PPP Deflate Compression module registered
[ 4.737324] PPP MPPE Compression module registered
[ 4.742140] NET: Registered protocol family 24
[ 4.749045] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755670] ehci-pci: EHCI PCI platform driver
[ 4.760183] ehci-platform: EHCI generic platform driver
[ 4.765802] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772033] ohci-pci: OHCI PCI platform driver
[ 4.776669] ohci-platform: OHCI generic platform driver
[ 4.782898] mousedev: PS/2 mouse device common for all mice
[ 4.788700] usbcore: registered new interface driver xpad
[ 4.794209] usbcore: registered new interface driver usb_acecad
[ 4.800197] usbcore: registered new interface driver aiptek
[ 4.805880] usbcore: registered new interface driver gtco
[ 4.811348] usbcore: registered new interface driver hanwang
[ 4.817094] usbcore: registered new interface driver kbtabs
[ 4.823186] i2c /dev entries driver
[ 4.827802] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.834935] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841123] gspca_main: v2.14.0 registered
[ 4.848929] device-mapper: uevent: version 1.0.3
[ 4.853731] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.859843] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868355] vip 48970000.vip: VPDMA firmware loaded
[ 4.884778] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890425] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896893] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028364] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034440] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042673] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051035] usbcore: registered new interface driver usbhid
[ 5.056682] usbhid: USB HID core driver
[ 5.060825] ashmem: initialized
[ 5.069409] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076581] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082248] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091031] mmc0: new high speed SDIO card at address 0001
[ 5.096615] remoteproc0: 58820000.ipu is available
[ 5.101515] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111848] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122406] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130803] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138628] remoteproc0: Falling back to user helper
[ 5.143783] remoteproc1: 55020000.ipu is available
[ 5.148682] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157813] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168363] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
```

```
error -2
[ 5.176763] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184608] remoteproc1: Falling back to user helper
[ 5.189811] remoteproc2: 40800000.dsp is available
[ 5.194753] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204012] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214899] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222721] remoteproc3: 41000000.dsp is available
[ 5.227720] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236810] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247351] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259272] remoteproc2: Falling back to user helper
[ 5.275411] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284277] usbcore: registered new interface driver snd-usb-audio
[ 5.292163] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297498] remoteproc3: Falling back to user helper
[ 5.303731] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309187] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317070] u32 classifier
[ 5.319791]     input device check on
[ 5.323549]     Actions configured
[ 5.326974] Netfilter messages via NETLINK v0.30.
[ 5.331755] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338429] ctnetlink v0.93: registering with nfnetlink.
[ 5.345433] xt_time: kernel timezone is -0000
[ 5.350200] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355774] arp_tables: (C) 2002 David S. Miller
[ 5.360555] Initializing XFRM netlink socket
[ 5.365525] NET: Registered protocol family 10
[ 5.381108] mip6: Mobile IPv6
[ 5.384162] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389922] sit: IPv6 over IPv4 tunneling driver
[ 5.395149] NET: Registered protocol family 17
[ 5.399636] NET: Registered protocol family 15
[ 5.404129] can: controller area network core (rev 20120528 abi 9)
[ 5.410394] NET: Registered protocol family 29
[ 5.414937] can: raw protocol (rev 20120528)
[ 5.419233] can: broadcast manager protocol (rev 20120528 t)
[ 5.424949] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430772] NET: Registered protocol family 41
[ 5.435595] omap_voltage_late_init: Voltage driver support not added
[ 5.442582] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448823] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455081] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461682] Power Management for TI OMAP4+ devices.
[ 5.466847] Registering SWP/SWPB emulation handler
[ 5.472112] registered taskstats version 1
[ 5.477114] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484705] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502217] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511191] omap_hsmmc 4809c000.mmc: Got CD GPIO
```

```
[ 5.517207] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523663] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531335] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537599] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543877] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551422] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559277] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566834] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572797] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579336] hctosys: unable to open rtc device (rtc0)
[ 5.593498] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601422] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614029] evm_1v8: disabling
[ 5.617106] evm_3v3_sw: disabling
[ 5.620434] aic_dvdd: disabling
[ 5.623671] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629952] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636468] vmmcwl_fixed: disabling
[ 5.639982] evm_3v3_sd: disabling
[ 5.644231] ALSA device list:
[ 5.647214]   No soundcards found.
[ 5.651517] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658873] Freeing unused kernel memory: 2048K
[ 5.667385] init: init first stage started!
[ 5.671855] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799870] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815036] init: Wait for partitions returned after 10001ms
[ 15.820745] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833362] init: Failed to mount required partitions early ...
[ 15.839369] init: panic: rebooting to bootloader
[ 15.845176] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851955] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859708] init: Shutdown timeout: 6000 ms
[ 15.864006] init: terminating init services
[ 15.868230] init: waitid failed: No child processes
[ 15.873149] init: Terminating running services took 27ms with remaining
services:0
[ 15.880826] init: waitid failed: No child processes
[ 15.885777] init: vold not running, skipping vold shutdown
[ 15.991800] init: powerctl_shutdown_time_ms:146:0
[ 15.996563] init: Reboot ending, jumping to kernel
[ 16.001736] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007303] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012845] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018395] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025755] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
```



```
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x0000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x0000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xffff0000 (3072 kB)
[ 0.000000] vmalloc : 0xf0800000 - 0xff800000 ( 240 MB)
[ 0.000000] lowmem : 0xc0000000 - 0xf0000000 ( 768 MB)
[ 0.000000] pkmap : 0xbfe00000 - 0xc0000000 ( 2 MB)
[ 0.000000] modules : 0xbf000000 - 0xbfe00000 ( 14 MB)
[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000313] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000321] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000727] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000741] pid_max: default: 32768 minimum: 301
[ 0.000815] Security Framework initialized
[ 0.000826] SELinux: Initializing.
[ 0.000899] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000909] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001481] Initializing cgroup subsys io
[ 0.001500] Initializing cgroup subsys memory
[ 0.001525] Initializing cgroup subsys devices
[ 0.001538] Initializing cgroup subsys freezer
```

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[ 0.001549] Initializing cgroup subsys perf_event
[ 0.001561] Initializing cgroup subsys pids
[ 0.001599] CPU: Testing write buffer coherency: ok
[ 0.001847] /cpus/cpu@0 missing clock-frequency property
[ 0.001864] /cpus/cpu@1 missing clock-frequency property
[ 0.001873] CPU0: update cpu_capacity 1024
[ 0.001881] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001929] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080485] CPU1: failed to come online
[ 1.080516] Brought up 1 CPUs
[ 1.080525] SMP: Total of 1 processors activated (12.29 Bogomips).
[ 1.080532] CPU: All CPU(s) started in HYP mode.
[ 1.080538] CPU: Virtualization extensions available.
[ 1.080570] CPU0: update max cpu_capacity 1024
[ 1.120894] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121921] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220818] omap_hwmod: cal: no dt node
[ 1.220828] -----[ cut here ]-----
[ 1.220844] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220851] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220858] Modules linked in:
[ 1.220872] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220880] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220887] Backtrace:
[ 1.220903] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.220910] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220939] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.220951] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220957] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220980] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.220986] r3:c0e065f8 r2:c0e03fe0
[ 1.220997] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221018] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221024] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221045] r4:c1217c48
[ 1.221059] [] (__omap_hwmod_setup_all) from []
(do_one_initcall+0xa8/0x204)
[ 1.221065] r5:c120bd68 r4:00000001
[ 1.221081] [] (do_one_initcall) from []
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221087] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221107] r4:00000001
[ 1.221121] [] (kernel_init_freeable) from []
(kernel_init+0x10/0x148)
[ 1.221127] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221146] r4:00000000
[ 1.221161] [] (kernel_init) from []
(ret_from_fork+0x14/0x34)
[ 1.221166] r5:c0b46388 r4:00000000

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```
[ 1.221192] ---[ end trace a8c1d04dc8f1b86f ]---
[ 1.310012] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.310033] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314283] pinctrl core: initialized pinctrl subsystem
[ 1.315300] NET: Registered protocol family 16
[ 1.316435] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360920] cpuidle: using governor ladder
[ 1.420967] cpuidle: using governor menu
[ 1.429937] OMAP GPIO hardware version 0.1
[ 1.434105] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436457] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453779] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453793] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460559] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460869] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461142] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465673] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465683] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466174] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466184] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466884] OMAP DMA hardware revision 0.0
[ 1.572044] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573311] edma 43300000.edma: memcpy is disabled
[ 1.578159] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582903] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583099] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583268] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583443] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583750] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583944] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585991] usbcore: registered new interface driver usbfs
[ 1.586053] usbcore: registered new interface driver hub
[ 1.586169] usbcore: registered new device driver usb
[ 1.587681] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602168] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611730] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611871] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612660] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613400] pcf857x 0-0020: probed
[ 1.614007] pcf857x 0-0021: probed
[ 1.614156] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632782] omap_i2c 48072000.i2c: controller timed out
[ 2.652810] pcf857x: probe of 1-0026 failed with error -110
[ 2.653368] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653827] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673029] pcf857x 3-0021: probed
[ 2.673056] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673289] media: Linux media interface: v0.10
[ 2.673343] Linux video capture interface: v2.00
[ 2.673386] pps_core: LinuxPPS API ver. 1 registered
[ 2.673393] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673419] PTP clock support registered
[ 2.673469] EDAC MC: Ver: 3.0.0
```

```
[ 2.683430] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683728] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684190] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693382] clocksource: Switched to clocksource arch_sys_counter
[ 2.736335] NET: Registered protocol family 2
[ 2.736941] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737007] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737132] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737186] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737218] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737369] NET: Registered protocol family 1
[ 2.737960] Trying to unpack rootfs image as initramfs...
[ 2.782152] Freeing initrd memory: 1092K
[ 2.783083] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.785914] audit: initializing netlink subsys (disabled)
[ 2.785972] audit: type=2000 audit(2.779:1): initialized
[ 2.803343] VFS: Disk quotas dquot_6.6.0
[ 2.803578] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814689] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.814946] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815277] fuse init (API version 7.23)
[ 2.820239] bounce: pool size: 64 pages
[ 2.820401] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820415] io scheduler noop registered
[ 2.820426] io scheduler deadline registered
[ 2.820458] io scheduler cfq registered (default)
[ 2.825315] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828678] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.828717]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828739]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860272] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860453] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860467] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860478] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860488] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.860904] PCI: bus0: Fast back to back transfers disabled
[ 2.861028] PCI: bus1: Fast back to back transfers enabled
[ 2.861120] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861135] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861147] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861370] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866318] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868797] console [ttyS0] disabled
[ 2.868860] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115754] console [ttyS0] enabled
[ 4.119791] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129142] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139194] [drm] Initialized drm 1.1.0 20060810
[ 4.145475] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322375] brd: module loaded
[ 4.410724] loop: module loaded
[ 4.425459] nand: No NAND device found
[ 4.429231] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439342] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444791] 7 ofpart partitions found on MTD device spi32766.0
```

```
[ 4.450650] Creating 7 MTD partitions on "spi32766.0":
[ 4.455832] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.471889] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488202] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505117] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521737] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539088] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555414] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573168] libphy: Fixed MDIO Bus: probed
[ 4.577893] tun: Universal TUN/TAP device driver, 1.6
[ 4.582966] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589277] CAN device driver interface
[ 4.594275] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653420] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659546] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680369] libphy: 48485000.mdio: probed
[ 4.684463] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692766] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701811] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708517] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715535] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723172] PPP generic driver version 2.4.2
[ 4.727667] PPP BSD Compression module registered
[ 4.732396] PPP Deflate Compression module registered
[ 4.737527] PPP MPPE Compression module registered
[ 4.742343] NET: Registered protocol family 24
[ 4.749260] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755885] ehci-pci: EHCI PCI platform driver
[ 4.760398] ehci-platform: EHCI generic platform driver
[ 4.766016] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772248] ohci-pci: OHCI PCI platform driver
[ 4.776881] ohci-platform: OHCI generic platform driver
[ 4.783106] mousedev: PS/2 mouse device common for all mice
[ 4.788907] usbcore: registered new interface driver xpad
[ 4.794415] usbcore: registered new interface driver usb_acecad
[ 4.800401] usbcore: registered new interface driver aiptek
[ 4.806082] usbcore: registered new interface driver gtco
[ 4.811550] usbcore: registered new interface driver hanwang
[ 4.817295] usbcore: registered new interface driver kbtabs
[ 4.823406] i2c /dev entries driver
[ 4.827996] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835128] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841324] gspca_main: v2.14.0 registered
[ 4.849144] device-mapper: uevent: version 1.0.3
[ 4.853949] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860062] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868575] vip 48970000.vip: VPDMA firmware loaded
[ 4.884860] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890516] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896985] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028335] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034411] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042643] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050966] usbcore: registered new interface driver usbhid
```

```
[ 5.056616] usbhid: USB HID core driver
[ 5.060763] ashmem: initialized
[ 5.069362] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075552] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084502] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.090080] remoteproc0: 58820000.ipu is available
[ 5.095973] mmc0: new high speed SDIO card at address 0001
[ 5.102689] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111825] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122380] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130778] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138602] remoteproc0: Falling back to user helper
[ 5.143754] remoteproc1: 55020000.ipu is available
[ 5.148652] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157786] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168338] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176743] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184586] remoteproc1: Falling back to user helper
[ 5.189791] remoteproc2: 40800000.dsp is available
[ 5.194733] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203993] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214875] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222695] remoteproc3: 41000000.dsp is available
[ 5.227693] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236783] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247320] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259235] remoteproc2: Falling back to user helper
[ 5.275384] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284251] usbcore: registered new interface driver snd-usb-audio
[ 5.292146] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297484] remoteproc3: Falling back to user helper
[ 5.303738] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309193] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317075] u32 classifier
[ 5.319795]     input device check on
[ 5.323552]     Actions configured
[ 5.326979] Netfilter messages via NETLINK v0.30.
[ 5.331759] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338432] ctnetlink v0.93: registering with nfnetlink.
[ 5.345432] xt_time: kernel timezone is -0000
[ 5.350194] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355771] arp_tables: (C) 2002 David S. Miller
[ 5.360553] Initializing XFRM netlink socket
```

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[ 5.365520] NET: Registered protocol family 10
[ 5.381100] mip6: Mobile IPv6
[ 5.384157] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389910] sit: IPv6 over IPv4 tunneling driver
[ 5.395131] NET: Registered protocol family 17
[ 5.399619] NET: Registered protocol family 15
[ 5.404111] can: controller area network core (rev 20120528 abi 9)
[ 5.410375] NET: Registered protocol family 29
[ 5.414918] can: raw protocol (rev 20120528)
[ 5.419214] can: broadcast manager protocol (rev 20120528 t)
[ 5.424928] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430751] NET: Registered protocol family 41
[ 5.435575] omap_voltage_late_init: Voltage driver support not added
[ 5.442562] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448802] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455063] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461664] Power Management for TI OMAP4+ devices.
[ 5.466826] Registering SWP/SWPB emulation handler
[ 5.472092] registered taskstats version 1
[ 5.477101] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484684] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502201] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511177] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517194] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523650] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531315] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537579] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543860] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551399] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559277] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566822] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572789] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579326] hctosys: unable to open rtc device (rtc0)
[ 5.593467] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601390] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613982] evm_1v8: disabling
[ 5.617058] evm_3v3_sw: disabling
[ 5.620386] aic_dvdd: disabling
[ 5.623624] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629904] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636418] vmmcwl_fixed: disabling
[ 5.639932] evm_3v3_sd: disabling
[ 5.644187] ALSA device list:
[ 5.647169]   No soundcards found.
[ 5.651473] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658830] Freeing unused kernel memory: 2048K
[ 5.667333] init: init first stage started!
[ 5.671798] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799763] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815000] init: Wait for partitions returned after 10001ms
[ 15.820709] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833327] init: Failed to mount required partitions early ...
[ 15.839336] init: panic: rebooting to bootloader
[ 15.845147] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851927] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859678] init: Shutdown timeout: 6000 ms
```

```
[ 15.863977] init: terminating init services
[ 15.868200] init: waitid failed: No child processes
[ 15.873118] init: Terminating running services took 27ms with remaining
services:0
[ 15.880792] init: waitid failed: No child processes
[ 15.885745] init: vold not running, skipping vold shutdown
[ 15.991767] init: powerctl_shutdown_time_ms:146:0
[ 15.996529] init: Reboot ending, jumping to kernel
[ 16.001701] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007265] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012807] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018358] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025727] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device
```

```
MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK
```

```
MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
```

```
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
## Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

```
Starting kernel ...
```

```
[ 0.000000] Booting Linux on physical CPU 0x0
```



```
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]   .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]   .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]   .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
```

```

[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000323] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000332] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000744] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000758] pid_max: default: 32768 minimum: 301
[ 0.000832] Security Framework initialized
[ 0.000843] SELinux: Initializing.
[ 0.000918] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000929] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001500] Initializing cgroup subsys io
[ 0.001518] Initializing cgroup subsys memory
[ 0.001544] Initializing cgroup subsys devices
[ 0.001557] Initializing cgroup subsys freezer
[ 0.001568] Initializing cgroup subsys perf_event
[ 0.001580] Initializing cgroup subsys pids
[ 0.001618] CPU: Testing write buffer coherency: ok
[ 0.001869] /cpus/cpu@0 missing clock-frequency property
[ 0.001887] /cpus/cpu@1 missing clock-frequency property
[ 0.001896] CPU0: update cpu_capacity 1024
[ 0.001904] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001951] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080486] CPU1: failed to come online
[ 1.080516] Brought up 1 CPUs
[ 1.080525] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080532] CPU: All CPU(s) started in HYP mode.
[ 1.080538] CPU: Virtualization extensions available.
[ 1.080571] CPU0: update max cpu_capacity 1024
[ 1.120900] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121918] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220809] omap_hwmod: cal: no dt node
[ 1.220821] -----[ cut here ]-----
[ 1.220835] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220842] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220848] Modules linked in:
[ 1.220863] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220870] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220877] Backtrace:
[ 1.220894] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.220901] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220928] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.220941] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220947] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220970] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)

```

```
[ 1.220976] r3:c0e065f8 r2:c0e03fe0
[ 1.220987] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221008] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221015] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.221036] r4:c1217c48
[ 1.221049] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221056] r5:c120bd68 r4:00000001
[ 1.221072] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.221078] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.221098] r4:00000001
[ 1.221112] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.221118] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.221138] r4:00000000
[ 1.221152] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.221158] r5:c0b46388 r4:00000000
[ 1.221183] ---[ end trace efc7fbc4321ea351 ]---
[ 1.309609] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309630] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314219] pinctrl core: initialized pinctrl subsystem
[ 1.315242] NET: Registered protocol family 16
[ 1.316362] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360922] cpuidle: using governor ladder
[ 1.420970] cpuidle: using governor menu
[ 1.429962] OMAP GPIO hardware version 0.1
[ 1.434124] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436479] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453797] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453811] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460594] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460902] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461177] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465703] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465714] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466198] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466208] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466907] OMAP DMA hardware revision 0.0
[ 1.572039] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573303] edma 43300000.edma: memcpy is disabled
[ 1.578084] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582814] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583008] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583174] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583352] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583661] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583853] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585917] usbcore: registered new interface driver usbfs
[ 1.585978] usbcore: registered new interface driver hub
[ 1.586093] usbcore: registered new device driver usb
```

```
[ 1.587606] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602080] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611519] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611632] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612484] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613214] pcf857x 0-0020: probed
[ 1.613822] pcf857x 0-0021: probed
[ 1.613968] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632691] omap_i2c 48072000.i2c: controller timed out
[ 2.652720] pcf857x: probe of 1-0026 failed with error -110
[ 2.653284] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653740] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672937] pcf857x 3-0021: probed
[ 2.672965] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673198] media: Linux media interface: v0.10
[ 2.673252] Linux video capture interface: v2.00
[ 2.673294] pps_core: LinuxPPS API ver. 1 registered
[ 2.673302] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673328] PTP clock support registered
[ 2.673378] EDAC MC: Ver: 3.0.0
[ 2.683339] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683638] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684106] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693287] clocksource: Switched to clocksource arch_sys_counter
[ 2.736888] NET: Registered protocol family 2
[ 2.737487] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737552] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737678] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737731] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737762] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737915] NET: Registered protocol family 1
[ 2.738500] Trying to unpack rootfs image as initramfs...
[ 2.782698] Freeing initrd memory: 1092K
[ 2.783763] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786467] audit: initializing netlink subsys (disabled)
[ 2.786525] audit: type=2000 audit(2.779:1): initialized
[ 2.803926] VFS: Disk quotas dquot_6.6.0
[ 2.804099] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815222] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815477] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815805] fuse init (API version 7.23)
[ 2.820765] bounce: pool size: 64 pages
[ 2.820923] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820938] io scheduler noop registered
[ 2.820949] io scheduler deadline registered
[ 2.820980] io scheduler cfq registered (default)
[ 2.825845] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829215] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829254]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829275]   MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.860920] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.861100] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.861114] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.861125] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.861135] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
```

```
[ 2.861552] PCI: bus0: Fast back to back transfers disabled
[ 2.861676] PCI: bus1: Fast back to back transfers enabled
[ 2.861767] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861782] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861795] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.862023] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866945] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869407] console [ttyS0] disabled
[ 2.869468] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116349] console [ttyS0] enabled
[ 4.120383] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129732] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139791] [drm] Initialized drm 1.1.0 20060810
[ 4.146096] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322980] brd: module loaded
[ 4.411307] loop: module loaded
[ 4.426051] nand: No NAND device found
[ 4.429825] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439944] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.445387] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451246] Creating 7 MTD partitions on "spi32766.0":
[ 4.456428] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.472487] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.488806] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505720] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.522338] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539687] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.556015] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573807] libphy: Fixed MDIO Bus: probed
[ 4.578483] tun: Universal TUN/TAP device driver, 1.6
[ 4.583603] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589896] CAN device driver interface
[ 4.594884] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653326] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659452] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680312] libphy: 48485000.mdio: probed
[ 4.684406] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692709] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701757] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708469] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715497] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723143] PPP generic driver version 2.4.2
[ 4.727641] PPP BSD Compression module registered
[ 4.732370] PPP Deflate Compression module registered
[ 4.737503] PPP MPPE Compression module registered
[ 4.742319] NET: Registered protocol family 24
[ 4.749240] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755865] ehci-pci: EHCI PCI platform driver
[ 4.760379] ehci-platform: EHCI generic platform driver
[ 4.766001] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772233] ohci-pci: OHCI PCI platform driver
[ 4.777349] ohci-platform: OHCI generic platform driver
[ 4.783638] mousedev: PS/2 mouse device common for all mice
```

```
[ 4.789385] usbcore: registered new interface driver xpad
[ 4.794899] usbcore: registered new interface driver usb_acecad
[ 4.800886] usbcore: registered new interface driver aiptek
[ 4.806567] usbcore: registered new interface driver gtco
[ 4.812036] usbcore: registered new interface driver hanwang
[ 4.817784] usbcore: registered new interface driver kbtabs
[ 4.823894] i2c /dev entries driver
[ 4.828485] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835622] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841816] gspca_main: v2.14.0 registered
[ 4.849593] device-mapper: uevent: version 1.0.3
[ 4.854398] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860512] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.869025] vip 48970000.vip: VPDMA firmware loaded
[ 4.885310] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890970] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897439] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028336] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034412] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042645] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051010] usbcore: registered new interface driver usbhid
[ 5.056659] usbhid: USB HID core driver
[ 5.060804] ashmem: initialized
[ 5.069387] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076573] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082236] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091015] mmc0: new high speed SDIO card at address 0001
[ 5.096598] remoteproc0: 58820000.ipu is available
[ 5.101497] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111831] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122392] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130789] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138613] remoteproc0: Falling back to user helper
[ 5.143766] remoteproc1: 55020000.ipu is available
[ 5.148665] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157798] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168353] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176755] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184599] remoteproc1: Falling back to user helper
[ 5.189803] remoteproc2: 40800000.dsp is available
[ 5.194745] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204004] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214886] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222707] remoteproc3: 41000000.dsp is available
[ 5.227706] remoteproc3: Note: remoteproc is still under development and
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considered experimental.

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[ 5.236795] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247331] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259249] remoteproc2: Falling back to user helper
[ 5.275401] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284265] usbcore: registered new interface driver snd-usb-audio
[ 5.292153] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297489] remoteproc3: Falling back to user helper
[ 5.303742] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309196] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.317081] u32 classifier
[ 5.319801]     input device check on
[ 5.323559]     Actions configured
[ 5.326986] Netfilter messages via NETLINK v0.30.
[ 5.331767] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338442] ctnetlink v0.93: registering with nfnetlink.
[ 5.345438] xt_time: kernel timezone is -0000
[ 5.350203] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355781] arp_tables: (C) 2002 David S. Miller
[ 5.360563] Initializing XFRM netlink socket
[ 5.365523] NET: Registered protocol family 10
[ 5.381095] mip6: Mobile IPv6
[ 5.384150] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389909] sit: IPv6 over IPv4 tunneling driver
[ 5.395136] NET: Registered protocol family 17
[ 5.399624] NET: Registered protocol family 15
[ 5.404117] can: controller area network core (rev 20120528 abi 9)
[ 5.410381] NET: Registered protocol family 29
[ 5.414924] can: raw protocol (rev 20120528)
[ 5.419219] can: broadcast manager protocol (rev 20120528 t)
[ 5.424935] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430757] NET: Registered protocol family 41
[ 5.435587] omap_voltage_late_init: Voltage driver support not added
[ 5.442570] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448809] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455068] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461668] Power Management for TI OMAP4+ devices.
[ 5.466833] Registering SWP/SWPB emulation handler
[ 5.472100] registered taskstats version 1
[ 5.477096] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484679] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502189] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511152] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517172] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523626] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531298] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537566] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543845] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551388] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559249] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566801] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572752] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579287] hctosys: unable to open rtc device (rtc0)
[ 5.593373] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601299] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613849] evm_1v8: disabling
```

```
[ 5.616926] evm_3v3_sw: disabling
[ 5.620254] aic_dvdd: disabling
[ 5.623491] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629771] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636283] vmmcw1_fixed: disabling
[ 5.639797] evm_3v3_sd: disabling
[ 5.643388] ALSA device list:
[ 5.646368]   No soundcards found.
[ 5.651280] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658649] Freeing unused kernel memory: 2048K
[ 5.667150] init: init first stage started!
[ 5.671613] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799831] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814905] init: Wait for partitions returned after 10001ms
[ 15.820612] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833233] init: Failed to mount required partitions early ...
[ 15.839239] init: panic: rebooting to bootloader
[ 15.845048] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851828] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859583] init: Shutdown timeout: 6000 ms
[ 15.863880] init: terminating init services
[ 15.868105] init: waitid failed: No child processes
[ 15.873025] init: Terminating running services took 27ms with remaining
services:0
[ 15.880703] init: waitid failed: No child processes
[ 15.885657] init: vold not running, skipping vold shutdown
[ 15.991676] init: powerctl_shutdown_time_ms:146:0
[ 15.996436] init: Reboot ending, jumping to kernel
[ 16.001606] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007170] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012712] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018264] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025630] reboot: Restarting system with command 'bootloader'
```

U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)

DRA722-GP ES2.0

no pinctrl for hs200_1_8v

no pinctrl for ddr_1_8v

Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0

Model: TI DRA722 Rev C EVM

Board: DRA72x EVM REV C.1

DRAM: 2 GiB

MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode

flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst

scanning bus for devices...

Found 0 device(s).

Net: eth0: ethernet@48484000

Hit any key to stop autoboot: 0

MMC: no card present

MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...

Booting Android Image at 0x82000000 ...

Kernel load addr 0x80008000 size 7640 KiB

Kernel command line: buildvariant=userdebug

RAM disk load addr 0x83000000 size 1092 KiB

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Kernel Image ... OK

Loading Ramdisk to 8feef000, end 8ffffd1b ... OK

Loading Device Tree to 8fed1000, end 8feee946 ... OK

Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
```

```
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xfffff0000 - 0xfffff1000   (   4 kB)
[ 0.000000]     fixmap   : 0xfffc00000 - 0xffff00000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf08000000 - 0xff8000000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc00000000 - 0xf00000000   ( 768 MB)
[ 0.000000]     pkmap    : 0xbfe000000 - 0xc00000000   (   2 MB)
[ 0.000000]     modules  : 0xbf0000000 - 0xbfe000000   (  14 MB)
[ 0.000000]     .text   : 0xc00080000 - 0xc0c000000   (12256 kB)
[ 0.000000]     .init   : 0xc10000000 - 0xc12000000   (2048 kB)
[ 0.000000]     .data   : 0xc12000000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: HWalig=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000005] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000016] Switching to timer-based delay loop, resolution 162ns
[ 0.000320] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000328] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000741] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000755] pid_max: default: 32768 minimum: 301
[ 0.000827] Security Framework initialized
[ 0.000838] SELinux: Initializing.
[ 0.000913] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000924] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001495] Initializing cgroup subsys io
[ 0.001513] Initializing cgroup subsys memory
[ 0.001540] Initializing cgroup subsys devices
[ 0.001552] Initializing cgroup subsys freezer
[ 0.001563] Initializing cgroup subsys perf_event
[ 0.001576] Initializing cgroup subsys pids
[ 0.001615] CPU: Testing write buffer coherency: ok
[ 0.001862] /cpus/cpu@0 missing clock-frequency property
[ 0.001878] /cpus/cpu@1 missing clock-frequency property
[ 0.001887] CPU0: update cpu_capacity 1024
[ 0.001896] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001941] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080469] CPU1: failed to come online
[ 1.080500] Brought up 1 CPUs
[ 1.080509] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080516] CPU: All CPU(s) started in HYP mode.
[ 1.080522] CPU: Virtualization extensions available.
```

```

[ 1.080554] CPU0: update max cpu_capacity 1024
[ 1.110856] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.111890] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.211680] omap_hwmod: cal: no dt node
[ 1.211691] -----[ cut here ]-----
[ 1.211705] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.211713] omap_hwmod: cal: doesn't have mpu register target base
[ 1.211719] Modules linked in:
[ 1.211733] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.211741] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.211748] Backtrace:
[ 1.211764] [] (dump_backtrace) from [

```

```
[ 1.453751] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460515] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460823] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461095] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465600] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465611] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466102] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466113] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466818] OMAP DMA hardware revision 0.0
[ 1.571925] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573193] edma 43300000.edma: memcpy is disabled
[ 1.577997] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582726] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.582922] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583090] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583263] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583569] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583763] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585813] usbcore: registered new interface driver usbfs
[ 1.585874] usbcore: registered new interface driver hub
[ 1.585993] usbcore: registered new device driver usb
[ 1.587502] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602007] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611492] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611605] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612447] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613181] pcf857x 0-0020: probed
[ 1.613789] pcf857x 0-0021: probed
[ 1.613938] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632614] omap_i2c 48072000.i2c: controller timed out
[ 2.652642] pcf857x: probe of 1-0026 failed with error -110
[ 2.653202] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653658] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672859] pcf857x 3-0021: probed
[ 2.672886] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673114] media: Linux media interface: v0.10
[ 2.673168] Linux video capture interface: v2.00
[ 2.673211] pps_core: LinuxPPS API ver. 1 registered
[ 2.673219] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673244] PTP clock support registered
[ 2.673292] EDAC MC: Ver: 3.0.0
[ 2.683256] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683555] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684025] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693211] clocksource: Switched to clocksource arch_sys_counter
[ 2.736704] NET: Registered protocol family 2
[ 2.737312] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737376] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737501] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737554] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737586] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737736] NET: Registered protocol family 1
[ 2.738326] Trying to unpack rootfs image as initramfs...
[ 2.782487] Freeing initrd memory: 1092K
```

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[ 2.783552] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786260] audit: initializing netlink subsys (disabled)
[ 2.786319] audit: type=2000 audit(2.779:1): initialized
[ 2.803764] VFS: Disk quotas dquot_6.6.0
[ 2.803935] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815063] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815320] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815647] fuse init (API version 7.23)
[ 2.820612] bounce: pool size: 64 pages
[ 2.820772] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820786] io scheduler noop registered
[ 2.820798] io scheduler deadline registered
[ 2.820829] io scheduler cfq registered (default)
[ 2.825680] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828993] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.829032]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829054]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860638] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860817] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860832] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860843] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860853] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861266] PCI: bus0: Fast back to back transfers disabled
[ 2.861390] PCI: bus1: Fast back to back transfers enabled
[ 2.861482] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861497] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861511] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861734] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866656] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869118] console [ttyS0] disabled
[ 2.869179] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116034] console [ttyS0] enabled
[ 4.120071] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129415] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139460] [drm] Initialized drm 1.1.0 20060810
[ 4.145731] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322559] brd: module loaded
[ 4.410901] loop: module loaded
[ 4.425641] nand: No NAND device found
[ 4.429413] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439532] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444980] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450838] Creating 7 MTD partitions on "spi32766.0":
[ 4.456021] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472082] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488393] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505306] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.521926] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539275] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555599] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573376] libphy: Fixed MDIO Bus: probed
[ 4.578046] tun: Universal TUN/TAP device driver, 1.6
[ 4.583118] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589457] CAN device driver interface
[ 4.594453] c_can_platform 4ae3c000.can: c_can_platform device registered
```

```
(regs=fce3c000, irq=365)
[ 4.653248] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659376] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680370] libphy: 48485000.mdio: probed
[ 4.684466] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692769] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701817] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708527] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715544] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723178] PPP generic driver version 2.4.2
[ 4.727674] PPP BSD Compression module registered
[ 4.732403] PPP Deflate Compression module registered
[ 4.737531] PPP MPPE Compression module registered
[ 4.742348] NET: Registered protocol family 24
[ 4.749266] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755891] ehci-pci: EHCI PCI platform driver
[ 4.760403] ehci-platform: EHCI generic platform driver
[ 4.766025] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772256] ohci-pci: OHCI PCI platform driver
[ 4.776885] ohci-platform: OHCI generic platform driver
[ 4.783115] mousedev: PS/2 mouse device common for all mice
[ 4.788916] usbcore: registered new interface driver xpad
[ 4.794428] usbcore: registered new interface driver usb_acecad
[ 4.800415] usbcore: registered new interface driver aiptek
[ 4.806097] usbcore: registered new interface driver gtco
[ 4.811565] usbcore: registered new interface driver hanwang
[ 4.817312] usbcore: registered new interface driver kbtabs
[ 4.823425] i2c /dev entries driver
[ 4.828004] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835141] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841334] gspca_main: v2.14.0 registered
[ 4.849155] device-mapper: uevent: version 1.0.3
[ 4.853958] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860073] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868586] vip 48970000.vip: VPDMA firmware loaded
[ 4.884870] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890520] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896987] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028161] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034235] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042468] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050790] usbcore: registered new interface driver usbhid
[ 5.056441] usbhid: USB HID core driver
[ 5.060585] ashmem: initialized
[ 5.069188] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.075377] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.084329] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.089911] remoteproc0: 58820000.ipu is available
[ 5.095792] mmc0: new high speed SDIO card at address 0001
[ 5.102509] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111644] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122199] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
```

```
error -2
[ 5.130593] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138418] remoteproc0: Falling back to user helper
[ 5.143572] remoteproc1: 55020000.ipu is available
[ 5.148472] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157606] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168156] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176558] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184402] remoteproc1: Falling back to user helper
[ 5.189607] remoteproc2: 40800000.dsp is available
[ 5.194550] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203808] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214692] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222512] remoteproc3: 41000000.dsp is available
[ 5.227508] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236596] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247136] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259057] remoteproc2: Falling back to user helper
[ 5.275197] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284060] usbcore: registered new interface driver snd-usb-audio
[ 5.291956] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297290] remoteproc3: Falling back to user helper
[ 5.303527] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.308983] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316866] u32 classifier
[ 5.319585]     input device check on
[ 5.323347]     Actions configured
[ 5.326773] Netfilter messages via NETLINK v0.30.
[ 5.331554] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338225] ctnetlink v0.93: registering with nfnetlink.
[ 5.345224] xt_time: kernel timezone is -0000
[ 5.349991] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355566] arp_tables: (C) 2002 David S. Miller
[ 5.360349] Initializing XFRM netlink socket
[ 5.365308] NET: Registered protocol family 10
[ 5.380884] mip6: Mobile IPv6
[ 5.383939] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389694] sit: IPv6 over IPv4 tunneling driver
[ 5.394920] NET: Registered protocol family 17
[ 5.399407] NET: Registered protocol family 15
[ 5.403901] can: controller area network core (rev 20120528 abi 9)
[ 5.410165] NET: Registered protocol family 29
[ 5.414707] can: raw protocol (rev 20120528)
[ 5.419001] can: broadcast manager protocol (rev 20120528 t)
[ 5.424717] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430541] NET: Registered protocol family 41
[ 5.435363] omap_voltage_late_init: Voltage driver support not added
```

```
[ 5.442346] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448586] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454844] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461444] Power Management for TI OMAP4+ devices.
[ 5.466609] Registering SWP/SWPB emulation handler
[ 5.471872] registered taskstats version 1
[ 5.476868] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484451] dmm 4e000000.dmm: initialized all PAT entries
[ 5.501971] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.510947] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.516982] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523435] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531098] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537366] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543645] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551191] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559054] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566608] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572565] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579104] hctosys: unable to open rtc device (rtc0)
[ 5.593296] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601229] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613861] evm_1v8: disabling
[ 5.616935] evm_3v3_sw: disabling
[ 5.620264] aic_dvdd: disabling
[ 5.623501] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629780] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636296] vmmcwl_fixed: disabling
[ 5.639811] evm_3v3_sd: disabling
[ 5.644053] ALSA device list:
[ 5.647035]   No soundcards found.
[ 5.651343] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658697] Freeing unused kernel memory: 2048K
[ 5.667214] init: init first stage started!
[ 5.671680] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799684] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.814831] init: Wait for partitions returned after 10001ms
[ 15.820539] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833159] init: Failed to mount required partitions early ...
[ 15.839167] init: panic: rebooting to bootloader
[ 15.844976] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.851756] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859508] init: Shutdown timeout: 6000 ms
[ 15.863805] init: terminating init services
[ 15.868030] init: waitid failed: No child processes
[ 15.872949] init: Terminating running services took 27ms with remaining
services:0
[ 15.880626] init: waitid failed: No child processes
[ 15.885579] init: vold not running, skipping vold shutdown
[ 15.991599] init: powerctl_shutdown_time_ms:146:0
[ 15.996361] init: Reboot ending, jumping to kernel
[ 16.001532] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007097] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012639] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018190] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025546] reboot: Restarting system with command 'bootloader'
```


U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI

U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)

CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK

Booting from eMMC ...
Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Kernel Image ... OK
Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5 16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size 56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id shared-dma-pool
```

```
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector   : 0xffff0000 - 0xffff1000   (  4 kB)
[ 0.000000]     fixmap   : 0xfffc0000 - 0xffff0000   (3072 kB)
[ 0.000000]     vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]     lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (  2 MB)
[ 0.000000]     modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]     .text   : 0xc0008000 - 0xc0c00000   (12256 kB)
[ 0.000000]     .init   : 0xc1000000 - 0xc1200000   (2048 kB)
[ 0.000000]     .data   : 0xc1200000 - 0xc129c1e4   ( 625 kB)
[ 0.000000]     .bss   : 0xc129c1e4 - 0xc1343628   ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000315] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000323] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000731] Calibrating delay loop (skipped), value calculated using timer
```

```

frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000746] pid_max: default: 32768 minimum: 301
[ 0.000818] Security Framework initialized
[ 0.000830] SELinux: Initializing.
[ 0.000904] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000915] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001486] Initializing cgroup subsys io
[ 0.001504] Initializing cgroup subsys memory
[ 0.001529] Initializing cgroup subsys devices
[ 0.001543] Initializing cgroup subsys freezer
[ 0.001554] Initializing cgroup subsys perf_event
[ 0.001566] Initializing cgroup subsys pids
[ 0.001605] CPU: Testing write buffer coherency: ok
[ 0.001849] /cpus/cpu@0 missing clock-frequency property
[ 0.001867] /cpus/cpu@1 missing clock-frequency property
[ 0.001876] CPU0: update cpu_capacity 1024
[ 0.001884] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001932] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080486] CPU1: failed to come online
[ 1.080518] Brought up 1 CPUs
[ 1.080527] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080534] CPU: All CPU(s) started in HYP mode.
[ 1.080540] CPU: Virtualization extensions available.
[ 1.080572] CPU0: update max cpu_capacity 1024
[ 1.120892] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121918] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220526] omap_hwmod: cal: no dt node
[ 1.220537] -----[ cut here ]-----
[ 1.220552] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220559] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220566] Modules linked in:
[ 1.220580] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220588] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.220595] Backtrace:
[ 1.220612] [] (dump_backtrace) from []
(show_stack+0x18/0x1c)
[ 1.220619] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220647] [] (show_stack) from [] (dump_stack+0x94/0xa8)
[ 1.220659] [] (dump_stack) from []
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220665] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220688] [] (warn_slowpath_fmt) from []
(_init+0x2d4/0x440)
[ 1.220694] r3:c0e065f8 r2:c0e03fe0
[ 1.220704] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.220726] [] (_init) from []
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.220732] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.220754] r4:c1217c48
[ 1.220768] [] (__omap_hwmod_setup_all) from []
(do_one_initcall+0xa8/0x204)
[ 1.220774] r5:c120bd68 r4:00000001
[ 1.220790] [] (do_one_initcall) from []
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.220796] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000

```

```

r5:c1083db4
[ 1.220817] r4:00000001
[ 1.220831] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.220837] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.220856] r4:00000000
[ 1.220871] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.220877] r5:c0b46388 r4:00000000
[ 1.220919] ---[ end trace 806bb5659e5f29b1 ]---
[ 1.309761] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.309783] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314429] pinctrl core: initialized pinctrl subsystem
[ 1.315447] NET: Registered protocol family 16
[ 1.316574] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.361111] cpuidle: using governor ladder
[ 1.421157] cpuidle: using governor menu
[ 1.430131] OMAP GPIO hardware version 0.1
[ 1.434284] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436633] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.453955] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453970] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460743] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.461053] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461325] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465834] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465845] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466334] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466345] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.467045] OMAP DMA hardware revision 0.0
[ 1.572219] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573480] edma 43300000.edma: memcpy is disabled
[ 1.578342] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.583072] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583266] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583434] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583606] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583913] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.584105] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.586166] usbcore: registered new interface driver usbfs
[ 1.586226] usbcore: registered new interface driver hub
[ 1.586342] usbcore: registered new device driver usb
[ 1.587855] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602347] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611859] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611973] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612816] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613546] pcf857x 0-0020: probed
[ 1.614156] pcf857x 0-0021: probed
[ 1.614303] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632954] omap_i2c 48072000.i2c: controller timed out
[ 2.652981] pcf857x: probe of 1-0026 failed with error -110
[ 2.653541] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz

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[ 2.653996] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.673199] pcf857x 3-0021: probed
[ 2.673227] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673459] media: Linux media interface: v0.10
[ 2.673513] Linux video capture interface: v2.00
[ 2.673556] pps_core: LinuxPPS API ver. 1 registered
[ 2.673563] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673589] PTP clock support registered
[ 2.673639] EDAC MC: Ver: 3.0.0
[ 2.683603] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683902] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684368] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693555] clocksource: Switched to clocksource arch_sys_counter
[ 2.736652] NET: Registered protocol family 2
[ 2.737251] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737316] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737441] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737496] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737527] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737679] NET: Registered protocol family 1
[ 2.738268] Trying to unpack rootfs image as initramfs...
[ 2.782448] Freeing initrd memory: 1092K
[ 2.783392] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786245] audit: initializing netlink subsys (disabled)
[ 2.786304] audit: type=2000 audit(2.779:1): initialized
[ 2.803767] VFS: Disk quotas dquot_6.6.0
[ 2.803939] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.815033] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815287] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815613] fuse init (API version 7.23)
[ 2.820573] bounce: pool size: 64 pages
[ 2.820733] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820746] io scheduler noop registered
[ 2.820758] io scheduler deadline registered
[ 2.820789] io scheduler cfq registered (default)
[ 2.825636] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.829044] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.829083]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.829105]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860767] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860947] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.860962] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860972] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860982] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.861395] PCI: bus0: Fast back to back transfers disabled
[ 2.861518] PCI: bus1: Fast back to back transfers enabled
[ 2.861608] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861623] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861636] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861858] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866791] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.869253] console [ttyS0] disabled
[ 2.869314] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.116194] console [ttyS0] enabled
[ 4.120228] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
```

```
[ 4.129575] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139627] [drm] Initialized drm 1.1.0 20060810
[ 4.145910] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322793] brd: module loaded
[ 4.411142] loop: module loaded
[ 4.425897] nand: No NAND device found
[ 4.429669] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439798] m25p80 spi32766.0: s25fl1256s1 (32768 Kbytes)
[ 4.445241] 7 ofpart partitions found on MTD device spi32766.0
[ 4.451099] Creating 7 MTD partitions on "spi32766.0":
[ 4.456281] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.472341] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.488656] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505571] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.522192] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539548] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.555873] 0x0000009e0000-0x00000020000000 : "QSPI.file-system"
[ 4.573667] libphy: Fixed MDIO Bus: probed
[ 4.578336] tun: Universal TUN/TAP device driver, 1.6
[ 4.583409] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589746] CAN device driver interface
[ 4.594741] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653591] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659718] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680358] libphy: 48485000.mdio: probed
[ 4.684453] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692756] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701809] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708516] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715544] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723179] PPP generic driver version 2.4.2
[ 4.727677] PPP BSD Compression module registered
[ 4.732406] PPP Deflate Compression module registered
[ 4.737535] PPP MPPE Compression module registered
[ 4.742352] NET: Registered protocol family 24
[ 4.749255] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755879] ehci-pci: EHCI PCI platform driver
[ 4.760391] ehci-platform: EHCI generic platform driver
[ 4.766013] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772244] ohci-pci: OHCI PCI platform driver
[ 4.776876] ohci-platform: OHCI generic platform driver
[ 4.783102] mousedev: PS/2 mouse device common for all mice
[ 4.788903] usbcore: registered new interface driver xpad
[ 4.794414] usbcore: registered new interface driver usb_acecad
[ 4.800401] usbcore: registered new interface driver aiptek
[ 4.806085] usbcore: registered new interface driver gtco
[ 4.811554] usbcore: registered new interface driver hanwang
[ 4.817301] usbcore: registered new interface driver kftab
[ 4.823387] i2c /dev entries driver
[ 4.827999] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835140] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841333] gspca_main: v2.14.0 registered
[ 4.849151] device-mapper: uevent: version 1.0.3
[ 4.853954] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860069] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
```

devel@redhat.com

```
[ 4.868583] vip 48970000.vip: VPDMA firmware loaded
[ 4.884933] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890584] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.897051] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028503] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034579] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042812] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.051177] usbcore: registered new interface driver usbhid
[ 5.056827] usbhid: USB HID core driver
[ 5.060976] ashmem: initialized
[ 5.069573] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076749] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082415] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.091197] mmc0: new high speed SDIO card at address 0001
[ 5.096780] remoteproc0: 58820000.ipu is available
[ 5.101680] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.112015] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122574] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130969] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138793] remoteproc0: Falling back to user helper
[ 5.143945] remoteproc1: 55020000.ipu is available
[ 5.148843] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157974] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168525] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176930] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
[ 5.184776] remoteproc1: Falling back to user helper
[ 5.189980] remoteproc2: 40800000.dsp is available
[ 5.194921] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.204180] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.215062] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222883] remoteproc3: 41000000.dsp is available
[ 5.227881] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236967] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247506] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259426] remoteproc2: Falling back to user helper
[ 5.275570] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284436] usbcore: registered new interface driver snd-usb-audio
[ 5.292320] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297655] remoteproc3: Falling back to user helper
[ 5.303899] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309352] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
```

```
[ 5.317233] u32 classifier
[ 5.319952]     input device check on
[ 5.323711]     Actions configured
[ 5.327138] Netfilter messages via NETLINK v0.30.
[ 5.331919] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338588] ctnetlink v0.93: registering with nfnetlink.
[ 5.345584] xt_time: kernel timezone is -0000
[ 5.350351] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355926] arp_tables: (C) 2002 David S. Miller
[ 5.360710] Initializing XFRM netlink socket
[ 5.365670] NET: Registered protocol family 10
[ 5.381252] mip6: Mobile IPv6
[ 5.384309] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.390070] sit: IPv6 over IPv4 tunneling driver
[ 5.395296] NET: Registered protocol family 17
[ 5.399784] NET: Registered protocol family 15
[ 5.404277] can: controller area network core (rev 20120528 abi 9)
[ 5.410541] NET: Registered protocol family 29
[ 5.415082] can: raw protocol (rev 20120528)
[ 5.419378] can: broadcast manager protocol (rev 20120528 t)
[ 5.425094] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430915] NET: Registered protocol family 41
[ 5.435744] omap_voltage_late_init: Voltage driver support not added
[ 5.442721] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448958] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.455218] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461821] Power Management for TI OMAP4+ devices.
[ 5.466983] Registering SWP/SWPB emulation handler
[ 5.472248] registered taskstats version 1
[ 5.477245] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484830] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502329] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511297] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517323] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523778] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531451] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.537718] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543996] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551544] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559399] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566951] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572906] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579442] hctosys: unable to open rtc device (rtc0)
[ 5.593637] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601561] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.614098] evm_1v8: disabling
[ 5.617174] evm_3v3_sw: disabling
[ 5.620501] aic_dvdd: disabling
[ 5.623742] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.630023] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636537] vmmcwl_fixed: disabling
[ 5.640050] evm_3v3_sd: disabling
[ 5.644294] ALSA device list:
[ 5.647275]   No soundcards found.
[ 5.651572] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658928] Freeing unused kernel memory: 2048K
[ 5.667445] init: init first stage started!
[ 5.671909] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799917] init: bool android::init::FirstStageMount::InitRequiredDevices():
```



```
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
[ 15.815174] init: Wait for partitions returned after 10001ms
[ 15.820883] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found after polling timeout: system, vendor
[ 15.833501] init: Failed to mount required partitions early ...
[ 15.839508] init: panic: rebooting to bootloader
[ 15.845317] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.852098] init: android::WriteStringToFile open failed: No such file or
directory
[ 15.859849] init: Shutdown timeout: 6000 ms
[ 15.864148] init: terminating init services
[ 15.868371] init: waitid failed: No child processes
[ 15.873291] init: Terminating running services took 27ms with remaining
services:0
[ 15.880966] init: waitid failed: No child processes
[ 15.885918] init: vold not running, skipping vold shutdown
[ 15.991941] init: powerctl_shutdown_time_ms:146:0
[ 15.996702] init: Reboot ending, jumping to kernel
[ 16.001872] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.007436] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.012977] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.018529] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.025883] reboot: Restarting system with command 'bootloader'
```

```
U-Boot SPL 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11)
DRA722-GP ES2.0
no pinctrl for hs200_1_8v
no pinctrl for ddr_1_8v
Trying to boot from SPI
```

```
U-Boot 2016.05-00002-g10cfd73cd8 (Oct 05 2020 - 15:31:11 +0530)
```

```
CPU : DRA722-GP ES2.0
Model: TI DRA722 Rev C EVM
Board: DRA72x EVM REV C.1
DRAM: 2 GiB
MMC: OMAP SD/MMC: 0, OMAP SD/MMC: 1
SCSI: SATA link 0 timeout.
AHCI 0001.0300 32 slots 1 ports 3 Gbps 0x1 impl SATA mode
flags: 64bit ncq stag pm led clo only pmp pio slum part ccc apst
scanning bus for devices...
Found 0 device(s).
Net: eth0: ethernet@48484000
Hit any key to stop autoboot: 0
MMC: no card present
MMC: no card present
MMC: no card present
switch to partitions #0, OK
mmc1(part 0) is current device

MMC read: dev # 1, block # 5376, count 512 ... 512 blocks read: OK

MMC read: dev # 1, block # 101152, count 61440 ... 61440 blocks read: OK
Booting from eMMC ...
## Booting Android Image at 0x82000000 ...
Kernel load addr 0x80008000 size 7640 KiB
Kernel command line: buildvariant=userdebug
RAM disk load addr 0x83000000 size 1092 KiB
```

```
## Flattened Device Tree blob at 88000000
  Booting using the fdt blob at 0x88000000
  Loading Kernel Image ... OK
  Loading Ramdisk to 8feef000, end 8ffffd1b ... OK
  Loading Device Tree to 8fed1000, end 8feee946 ... OK
Using machid 0xfe6 from environment
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.117-01630-g8116d3ba53e3-dirty (sumed_bn@Sumed-
LaptopU) (gcc version 4.9.x 20150123 (prerelease) (GCC) ) #2 SMP PREEMPT Mon Oct 5
16:27:22 IST 2020
[ 0.000000] CPU: ARMv7 Processor [412fc0f2] revision 2 (ARMv7), cr=30c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] Machine model: TI DRA742
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000095800000, size
56 MiB
[ 0.000000] Reserved memory: initialized node ipu2_cma@95800000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x0000000099000000, size
64 MiB
[ 0.000000] Reserved memory: initialized node dsp1_cma@99000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009d000000, size
32 MiB
[ 0.000000] Reserved memory: initialized node ipu1_cma@9d000000, compatible id
shared-dma-pool
[ 0.000000] Reserved memory: created CMA memory pool at 0x000000009f000000, size
8 MiB
[ 0.000000] Reserved memory: initialized node dsp2_cma@9f000000, compatible id
shared-dma-pool
[ 0.000000] cma: Reserved 24 MiB at 0x00000000fd400000
[ 0.000000] Forcing write-allocate cache policy for SMP
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] OMAP4: Map 0x00000000fed00000 to fe600000 for dram barrier
[ 0.000000] DRA722 ES2.0
[ 0.000000] PERCPU: Embedded 12 pages/cpu @eed4d000 s19968 r8192 d20992 u49152
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages:
516416
[ 0.000000] Kernel command line: root=/dev/mmcblk0p2 rw init=/init
rootfstype=ext4 rootwait drm.rnodes=1 androidboot.selinux=permissive
snd.slots_reserved=1,1 snd-soc-core.pmdown_g
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1845368K/2072576K available (10240K kernel code, 624K
rwdata, 3096K rodata, 2048K init, 669K bss, 38792K reserved, 188416K cma-reserved,
1265664K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap   : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc  : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem   : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap   : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules  : 0xbf000000 - 0xbfe00000   ( 14 MB)
```

```

[ 0.000000] .text : 0xc0008000 - 0xc0c00000 (12256 kB)
[ 0.000000] .init : 0xc1000000 - 0xc1200000 (2048 kB)
[ 0.000000] .data : 0xc1200000 - 0xc129c1e4 ( 625 kB)
[ 0.000000] .bss : 0xc129c1e4 - 0xc1343628 ( 670 kB)
[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] GIC CPU mask not found - kernel will fail to boot.
[ 0.000000] ti_dt_clocks_register: failed to lookup clock node
gmac_gmii_ref_clk_div
[ 0.000000] OMAP clockevent source: timer1 at 32786 Hz
[ 0.000000] Architected cp15 timer(s) running at 6.14MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff max_cycles:
0x16af5adb9, max_idle_ns: 440795202250 ns
[ 0.000004] sched_clock: 56 bits at 6MHz, resolution 162ns, wraps every
4398046511023ns
[ 0.000015] Switching to timer-based delay loop, resolution 162ns
[ 0.000331] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 58327039986419 ns
[ 0.000339] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000749] Calibrating delay loop (skipped), value calculated using timer
frequency.. 12.29 BogoMIPS (lpj=61475)
[ 0.000763] pid_max: default: 32768 minimum: 301
[ 0.000837] Security Framework initialized
[ 0.000848] SELinux: Initializing.
[ 0.000923] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000933] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.001509] Initializing cgroup subsys io
[ 0.001528] Initializing cgroup subsys memory
[ 0.001553] Initializing cgroup subsys devices
[ 0.001566] Initializing cgroup subsys freezer
[ 0.001577] Initializing cgroup subsys perf_event
[ 0.001589] Initializing cgroup subsys pids
[ 0.001627] CPU: Testing write buffer coherency: ok
[ 0.001872] /cpus/cpu@0 missing clock-frequency property
[ 0.001890] /cpus/cpu@1 missing clock-frequency property
[ 0.001899] CPU0: update cpu_capacity 1024
[ 0.001908] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001954] Setting up static identity map for 0x80200000 - 0x80200060
[ 1.080481] CPU1: failed to come online
[ 1.080512] Brought up 1 CPUs
[ 1.080521] SMP: Total of 1 processors activated (12.29 BogoMIPS).
[ 1.080528] CPU: All CPU(s) started in HYP mode.
[ 1.080534] CPU: Virtualization extensions available.
[ 1.080566] CPU0: update max cpu_capacity 1024
[ 1.120888] VFP support v0.3: implementor 41 architecture 4 part 30 variant f
rev 0
[ 1.121917] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.220061] omap_hwmod: cal: no dt node
[ 1.220072] -----[ cut here ]-----
[ 1.220086] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.220093] omap_hwmod: cal: doesn't have mpu register target base
[ 1.220100] Modules linked in:
[ 1.220114] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-
g8116d3ba53e3-dirty #2
[ 1.220122] Hardware name: Generic DRA74X (Flattened Device Tree)

```

```

[ 1.220129] Backtrace:
[ 1.220145] [<c020c80c>] (dump_backtrace) from [<c020ca08>]
(show_stack+0x18/0x1c)
[ 1.220153] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.220182] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.220194] [<c0b440cc>] (dump_stack) from [<c0232000>]
(warn_slowpath_fmt+0xa8/0xec)
[ 1.220201] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.220223] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>]
(_init+0x2d4/0x440)
[ 1.220230] r3:c0e065f8 r2:c0e03fe0
[ 1.220241] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.220263] [<c100ef94>] (_init) from [<c100fc34>]
(__omap_hwmod_setup_all+0x4c/0x98)
[ 1.220269] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8
r5:c120e8d0
[ 1.220291] r4:c1217c48
[ 1.220304] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.220311] r5:c120bd68 r4:00000001
[ 1.220326] [<c02017bc>] (do_one_initcall) from [<c10010b0>]
(kernel_init_freeable+0x1f8/0x2b8)
[ 1.220333] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000
r5:c1083db4
[ 1.220354] r4:00000001
[ 1.220367] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>]
(kernel_init+0x10/0x148)
[ 1.220373] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000
r5:c0b46388
[ 1.220393] r4:00000000
[ 1.220407] [<c0b46388>] (kernel_init) from [<c02080a0>]
(ret_from_fork+0x14/0x34)
[ 1.220413] r5:c0b46388 r4:00000000
[ 1.220438] ---[ end trace 8b56698b7ac22d20 ]---
[ 1.308874] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 1.308895] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.314203] pinctrl core: initialized pinctrl subsystem
[ 1.315223] NET: Registered protocol family 16
[ 1.316347] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.360912] cpuidle: using governor ladder
[ 1.420964] cpuidle: using governor menu
[ 1.429922] OMAP GPIO hardware version 0.1
[ 1.434103] GPIO line 161 (radio_rst) hogged as output/low
[ 1.436447] irq: no irq domain found for /ocp/l4@4a000000/scm@2000/pinmux@1400 !
[ 1.453735] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.453750] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.460509] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.460820] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.461092] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.465573] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint
registers.
[ 1.465585] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.466072] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.466082] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.466785] OMAP DMA hardware revision 0.0
[ 1.571981] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.573257] edma 43300000.edma: memcpy is disabled

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[ 1.578100] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.582812] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.583006] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.583175] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.583349] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.583653] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.583844] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.585909] usbcore: registered new interface driver usbfs
[ 1.585970] usbcore: registered new interface driver hub
[ 1.586086] usbcore: registered new device driver usb
[ 1.587600] palmas 0-0058: IRQ missing: skipping irq request
[ 1.602097] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0
[ 1.611581] smps9: failed to apply 1800000uV constraint(-22)
[ 1.611693] palmas-pmic 48070000.i2c:tps659038@58:tps659038_pmic: failed to
register 48070000.i2c:tps659038@58:tps659038_pmic regulator
[ 1.612536] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038_pmic
failed with error -22
[ 1.613273] pcf857x 0-0020: probed
[ 1.613879] pcf857x 0-0021: probed
[ 1.614025] omap_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz
[ 2.632709] omap_i2c 48072000.i2c: controller timed out
[ 2.652737] pcf857x: probe of 1-0026 failed with error -110
[ 2.653301] omap_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz
[ 2.653757] omap_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz
[ 2.672955] pcf857x 3-0021: probed
[ 2.672983] omap_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz
[ 2.673213] media: Linux media interface: v0.10
[ 2.673269] Linux video capture interface: v2.00
[ 2.673312] pps_core: LinuxPPS API ver. 1 registered
[ 2.673319] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
<giometti@linux.it>
[ 2.673345] PTP clock support registered
[ 2.673395] EDAC MC: Ver: 3.0.0
[ 2.683351] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400
[ 2.683649] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400
[ 2.684112] Advanced Linux Sound Architecture Driver Initialized.
[ 2.693298] clocksource: Switched to clocksource arch_sys_counter
[ 2.736515] NET: Registered protocol family 2
[ 2.737115] TCP established hash table entries: 8192 (order: 3, 32768 bytes)
[ 2.737180] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 2.737305] TCP: Hash tables configured (established 8192 bind 8192)
[ 2.737360] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737392] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 2.737547] NET: Registered protocol family 1
[ 2.738131] Trying to unpack rootfs image as initramfs...
[ 2.782333] Freeing initrd memory: 1092K
[ 2.783267] hw perfevents: enabled with armv7_cortex_a15 PMU driver, 7 counters
available
[ 2.786105] audit: initializing netlink subsys (disabled)
[ 2.786163] audit: type=2000 audit(2.779:1): initialized
[ 2.803497] VFS: Disk quotas dquot_6.6.0
[ 2.803671] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 2.814786] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 2.815042] ntfs: driver 2.1.32 [Flags: R/O].
[ 2.815372] fuse init (API version 7.23)
[ 2.820342] bounce: pool size: 64 pages
[ 2.820503] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)
[ 2.820517] io scheduler noop registered
[ 2.820529] io scheduler deadline registered
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[ 2.820561] io scheduler cfq registered (default)
[ 2.825430] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.828813] PCI host bridge /ocp/axi00/pcie_rc@51000000 ranges:
[ 2.828852]   IO 0x20003000..0x20012fff -> 0x00000000
[ 2.828873]   MEM 0x20013000..0x2fffffff -> 0x20013000
[ 2.860375] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.860554] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860568] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.860580] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.860589] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2fffffff]
[ 2.860998] PCI: bus0: Fast back to back transfers disabled
[ 2.861122] PCI: bus1: Fast back to back transfers enabled
[ 2.861216] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffffff]
[ 2.861231] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.861245] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.861470] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.866399] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.868852] console [ttyS0] disabled
[ 2.868915] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud =
3000000) is a 8250
[ 4.115799] console [ttyS0] enabled
[ 4.119831] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud =
3000000) is a 8250
[ 4.129176] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud =
3000000) is a 8250
[ 4.139227] [drm] Initialized drm 1.1.0 20060810
[ 4.145511] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.322377] brd: module loaded
[ 4.410698] loop: module loaded
[ 4.425442] nand: No NAND device found
[ 4.429217] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.439336] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.444780] 7 ofpart partitions found on MTD device spi32766.0
[ 4.450638] Creating 7 MTD partitions on "spi32766.0":
[ 4.455819] 0x0000000000000-0x0000000040000 : "QSPI.SPL"
[ 4.471881] 0x0000000040000-0x0000000140000 : "QSPI.u-boot"
[ 4.488194] 0x0000000140000-0x00000001c0000 : "QSPI.u-boot-spl-os"
[ 4.505107] 0x00000001c0000-0x00000001d0000 : "QSPI.u-boot-env"
[ 4.521729] 0x00000001d0000-0x00000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.539077] 0x00000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.555401] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.573149] libphy: Fixed MDIO Bus: probed
[ 4.577880] tun: Universal TUN/TAP device driver, 1.6
[ 4.582954] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.589267] CAN device driver interface
[ 4.594266] c_can_platform 4ae3c000.can: c_can_platform device registered
(regs=fce3c000, irq=365)
[ 4.653336] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.659462] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.680342] libphy: 48485000.mdio: probed
[ 4.684439] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver
TI DP83867
[ 4.692742] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver
TI DP83867
[ 4.701786] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.708491] cpsw 48484000.ethernet: cpts: overflow check period 800
[ 4.715511] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.723147] PPP generic driver version 2.4.2
[ 4.727647] PPP BSD Compression module registered
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[ 4.732376] PPP Deflate Compression module registered
[ 4.737506] PPP MPPE Compression module registered
[ 4.742323] NET: Registered protocol family 24
[ 4.749235] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.755860] ehci-pci: EHCI PCI platform driver
[ 4.760371] ehci-platform: EHCI generic platform driver
[ 4.765992] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.772223] ohci-pci: OHCI PCI platform driver
[ 4.776861] ohci-platform: OHCI generic platform driver
[ 4.783095] mousedev: PS/2 mouse device common for all mice
[ 4.788896] usbcore: registered new interface driver xpad
[ 4.794406] usbcore: registered new interface driver usb_acecad
[ 4.800393] usbcore: registered new interface driver aiptek
[ 4.806075] usbcore: registered new interface driver gtco
[ 4.811544] usbcore: registered new interface driver hanwang
[ 4.817290] usbcore: registered new interface driver kbtabs
[ 4.823402] i2c /dev entries driver
[ 4.827992] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.835124] vip 48970000.vip: loading firmware vpdma-1b8.bin
[ 4.841317] gspca_main: v2.14.0 registered
[ 4.849106] device-mapper: uevent: version 1.0.3
[ 4.853908] vpe 489d0000.vpe: Device registered as /dev/video0
[ 4.860020] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-
devel@redhat.com
[ 4.868533] vip 48970000.vip: VPDMA firmware loaded
[ 4.884817] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 4.890475] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 4.896941] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.028245] ledtrig-cpu: registered to indicate activity on CPUs
[ 5.034323] omap_hsmmc 480d1000.mmc: card claims to support voltages below
defined range
[ 5.042556] hidraw: raw HID events driver (C) Jiri Kosina
[ 5.050882] usbcore: registered new interface driver usbhid
[ 5.056557] usbhid: USB HID core driver
[ 5.060700] ashmem: initialized
[ 5.069297] hwspinlock_user gatemp: requested 20 hwspinlocks
[ 5.076469] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)
[ 5.082139] omap-rproc 58820000.ipu: assigned reserved memory node
ipu1_cma@9d000000
[ 5.090913] mmc0: new high speed SDIO card at address 0001
[ 5.096496] remoteproc0: 58820000.ipu is available
[ 5.101395] remoteproc0: Note: remoteproc is still under development and
considered experimental.
[ 5.111731] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.122290] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with
error -2
[ 5.130683] omap-rproc 55020000.ipu: assigned reserved memory node
ipu2_cma@95800000
[ 5.138506] remoteproc0: Falling back to user helper
[ 5.143659] remoteproc1: 55020000.ipu is available
[ 5.148558] remoteproc1: Note: remoteproc is still under development and
considered experimental.
[ 5.157690] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.168241] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with
error -2
[ 5.176643] omap-rproc 40800000.dsp: assigned reserved memory node
dsp1_cma@99000000
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[ 5.184488] remoteproc1: Falling back to user helper
[ 5.189691] remoteproc2: 40800000.dsp is available
[ 5.194633] remoteproc2: Note: remoteproc is still under development and
considered experimental.
[ 5.203893] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.214780] omap-rproc 41000000.dsp: assigned reserved memory node
dsp2_cma@9f000000
[ 5.222601] remoteproc3: 41000000.dsp is available
[ 5.227602] remoteproc3: Note: remoteproc is still under development and
considered experimental.
[ 5.236690] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward
compatibility isn't yet guaranteed.
[ 5.247229] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with
error -2
[ 5.259151] remoteproc2: Falling back to user helper
[ 5.275291] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with
error -2
[ 5.284152] usbcore: registered new interface driver snd-usb-audio
[ 5.292042] davinci-mcasp 48464000.mcasp: DAI is shared
[ 5.297378] remoteproc3: Falling back to user helper
[ 5.303612] davinci-mcasp 48474000.mcasp: DAI is shared
[ 5.309069] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
[ 5.316947] u32 classifier
[ 5.319667]     input device check on
[ 5.323422]     Actions configured
[ 5.326849] Netfilter messages via NETLINK v0.30.
[ 5.331630] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 5.338301] ctnetlink v0.93: registering with nfnetlink.
[ 5.345301] xt_time: kernel timezone is -0000
[ 5.350072] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 5.355649] arp_tables: (C) 2002 David S. Miller
[ 5.360432] Initializing XFRM netlink socket
[ 5.365393] NET: Registered protocol family 10
[ 5.380968] mip6: Mobile IPv6
[ 5.384023] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 5.389777] sit: IPv6 over IPv4 tunneling driver
[ 5.395007] NET: Registered protocol family 17
[ 5.399495] NET: Registered protocol family 15
[ 5.403989] can: controller area network core (rev 20120528 abi 9)
[ 5.410253] NET: Registered protocol family 29
[ 5.414795] can: raw protocol (rev 20120528)
[ 5.419091] can: broadcast manager protocol (rev 20120528 t)
[ 5.424807] can: netlink gateway (rev 20130117) max_hops=1
[ 5.430623] NET: Registered protocol family 41
[ 5.435447] omap_voltage_late_init: Voltage driver support not added
[ 5.442437] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.448676] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.454935] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.461537] Power Management for TI OMAP4+ devices.
[ 5.466700] Registering SWP/SWPB emulation handler
[ 5.471965] registered taskstats version 1
[ 5.476973] dmm 4e000000.dmm: workaround for errata i878 in use
[ 5.484559] dmm 4e000000.dmm: initialized all PAT entries
[ 5.502083] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.511048] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.517069] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.523522] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.531198] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
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[ 5.537464] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.543745] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.551282] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.559144] input: gpio_keys as /devices/platform/gpio_keys/input/input0
[ 5.566691] omap_hsmmc 4809c000.mmc: Got CD GPIO
[ 5.572646] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode
[ 5.579182] hctosys: unable to open rtc device (rtc0)
[ 5.593383] omap_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode
[ 5.601311] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm
[ 5.613859] evm_1v8: disabling
[ 5.616937] evm_3v3_sw: disabling
[ 5.620265] aic_dvdd: disabling
[ 5.623501] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm
[ 5.629782] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.636297] vmmcwl_fixed: disabling
[ 5.639812] evm_3v3_sd: disabling
[ 5.644056] ALSA device list:
[ 5.647039]   No soundcards found.
[ 5.651336] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.658724] Freeing unused kernel memory: 2048K
[ 5.667222] init: init first stage started!
[ 5.671686] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.799979] init: bool android::init::FirstStageMount::InitRequiredDevices():
partition(s) not found in /sys, waiting for their uevent(s): system, vendor
```

no pinctrl for hs200_1_8v