



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 8fffd1b ... 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

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[ 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_tg
[ 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 rwdma, 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).
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[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffff 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
[ 0.000324] clocksource: 32k_counter: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns:
58327039986419 ns
[ 0.000332] OMAP clocksource: 32k_counter at 32768 Hz
[ 0.000743] Calibrating delay loop (skipped), value calculated using timer frequency.. 12.29
BogoMIPS (lpj=61475)
[ 0.000757] pid_max: default: 32768 minimum: 301
[ 0.000831] Security Framework initialized
[ 0.000842] 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)
[ 0.001500] Initializing cgroup subsys io
[ 0.001518] Initializing cgroup subsys memory
[ 0.001544] 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
[ 0.001883] /cpus/cpu@1 missing clock-frequency property
[ 0.001891] CPU0: update cpu_capacity 1024
[ 0.001899] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001947] 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.
[ 1.080569] CPU0: update max cpu_capacity 1024
[ 1.110869] VFP support v0.3: implementor 41 architecture 4 part 30 variant f rev 0
[ 1.111901] omap_hwmod: l3_main_2 using broken dt data from ocp
[ 1.210620] omap_hwmod: cal: no dt node
[ 1.210631] -----[ cut here ]-----
[ 1.210646] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.210654] omap_hwmod: cal: doesn't have mpu register target base
[ 1.210660] Modules linked in:
[ 1.210674] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-g8116d3ba53e3-dirty #2
[ 1.210682] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.210688] Backtrace:
[ 1.210705] [<c020c80c>] (dump_backtrace) from [<c020ca08>] (show_stack+0x18/0x1c)
[ 1.210713] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.210741] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.210754] [<c0b440cc>] (dump_stack) from [<c0232000>] (warn_slowpath_fmt+0xa8/0xec)
[ 1.210760] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.210783] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>] (_init+0x2d4/0x440)
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[ 1.210789] r3:c0e065f8 r2:c0e03fe0
[ 1.210800] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.210822] [<c100ef94>] (__init) from [<c100fc34>] (__omap_hwmod_setup_all+0x4c/0x98)
[ 1.210828] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8 r5:c120e8d0
[ 1.210849] r4:c1217c48
[ 1.210863] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.210869] r5:c120bd68 r4:00000001
[ 1.210885] [<c02017bc>] (do_one_initcall) from [<c10010b0>] (kernel_init_freeable+0x1f8/0x2b8)
[ 1.210892] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000 r5:c1083db4
[ 1.210912] r4:00000001
[ 1.210925] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>] (kernel_init+0x10/0x148)
[ 1.210931] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c0b46388
[ 1.210951] r4:00000000
[ 1.210966] [<c0b46388>] (kernel_init) from [<c02080a0>] (ret_from_fork+0x14/0x34)
[ 1.210972] r5:c0b46388 r4:00000000
[ 1.211016] ---[ end trace f8ba4b405b1d8321 ]---
[ 1.299452] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns:
19112604462750000 ns
[ 1.299474] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.304468] pinctrl core: initialized pinctrl subsystem
[ 1.305483] NET: Registered protocol family 16
[ 1.306610] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.351206] cpuidle: using governor ladder
[ 1.411260] cpuidle: using governor menu
[ 1.420220] OMAP GPIO hardware version 0.1
[ 1.424393] GPIO line 161 (radio_rst) hogged as output/low
[ 1.426737] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
[ 1.444071] omap-gpmc 50000000.gpmc: GPMC revision 6.0
[ 1.444085] gpmc_mem_init: disabling cs 0 mapped at 0x0-0x1000000
[ 1.450856] platform 41501000.mmu: Cannot lookup hwmod 'mmu0_dsp2'
[ 1.451164] platform 41502000.mmu: Cannot lookup hwmod 'mmu1_dsp2'
[ 1.451436] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'
[ 1.455942] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.
[ 1.455953] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 1.456440] omap4_sram_init:Unable to allocate sram needed to handle errata I688
[ 1.456449] omap4_sram_init:Unable to get sram pool needed to handle errata I688
[ 1.457154] OMAP DMA hardware revision 0.0
[ 1.562429] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver
(LinkedList1/2/3 supported)
[ 1.563711] edma 43300000.edma: memcpy is disabled
[ 1.568500] edma 43300000.edma: TI EDMA DMA engine driver
[ 1.573218] omap-iommu 40d01000.mmu: 40d01000.mmu registered
[ 1.573412] omap-iommu 40d02000.mmu: 40d02000.mmu registered
[ 1.573581] omap-iommu 58882000.mmu: 58882000.mmu registered
[ 1.573759] omap-iommu 55082000.mmu: 55082000.mmu registered
[ 1.574063] omap-iommu 41501000.mmu: 41501000.mmu registered
[ 1.574254] omap-iommu 41502000.mmu: 41502000.mmu registered
[ 1.576313] usbcore: registered new interface driver usbfs
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[ 1.576373] usbcore: registered new interface driver hub  
[ 1.576488] usbcore: registered new device driver usb  
[ 1.578004] palmas 0-0058: IRQ missing: skipping irq request  
[ 1.592491] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0  
[ 1.601956] smps9: failed to apply 1800000uV constraint(-22)  
[ 1.602068] palmas-pmic 48070000.i2c:tps659038@58:tps659038\_pmic: failed to register  
48070000.i2c:tps659038@58:tps659038\_pmic regulator  
[ 1.602913] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038\_pmic failed with error  
-22  
[ 1.603640] pcf857x 0-0020: probed  
[ 1.604246] pcf857x 0-0021: probed  
[ 1.604394] omap\_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz  
[ 2.623103] omap\_i2c 48072000.i2c: controller timed out  
[ 2.643131] pcf857x: probe of 1-0026 failed with error -110  
[ 2.643690] omap\_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz  
[ 2.644138] omap\_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz  
[ 2.663350] pcf857x 3-0021: probed  
[ 2.663378] omap\_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz  
[ 2.663605] media: Linux media interface: v0.10  
[ 2.663661] Linux video capture interface: v2.00  
[ 2.663704] pps\_core: LinuxPPS API ver. 1 registered  
[ 2.663711] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti  
<giometti@linux.it>  
[ 2.663737] PTP clock support registered  
[ 2.663788] EDAC MC: Ver: 3.0.0  
[ 2.673757] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400  
[ 2.674060] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400  
[ 2.674527] Advanced Linux Sound Architecture Driver Initialized.  
[ 2.683702] clocksource: Switched to clocksource arch\_sys\_counter  
[ 2.727173] NET: Registered protocol family 2  
[ 2.727775] TCP established hash table entries: 8192 (order: 3, 32768 bytes)  
[ 2.727840] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)  
[ 2.727965] TCP: Hash tables configured (established 8192 bind 8192)  
[ 2.728018] UDP hash table entries: 512 (order: 2, 16384 bytes)  
[ 2.728050] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)  
[ 2.728205] NET: Registered protocol family 1  
[ 2.728793] Trying to unpack rootfs image as initramfs...  
[ 2.772958] Freeing initrd memory: 1092K  
[ 2.774030] hw perfevents: enabled with armv7\_cortex\_a15 PMU driver, 7 counters available  
[ 2.776727] audit: initializing netlink subsys (disabled)  
[ 2.776785] audit: type=2000 audit(2.769:1): initialized  
[ 2.794201] VFS: Disk quotas dquot\_6.6.0  
[ 2.794373] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)  
[ 2.805498] squashfs: version 4.0 (2009/01/31) Phillip Lougher  
[ 2.805754] ntfs: driver 2.1.32 [Flags: R/O].  
[ 2.806082] fuse init (API version 7.23)  
[ 2.811057] bounce: pool size: 64 pages  
[ 2.811216] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)  
[ 2.811230] io scheduler noop registered

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[ 2.811241] io scheduler deadline registered
[ 2.811273] io scheduler cfq registered (default)
[ 2.816190] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128
[ 2.819609] PCI host bridge /ocp/axi@0/pcie_rc@51000000 ranges:
[ 2.819648] IO 0x20003000..0x20012fff -> 0x00000000
[ 2.819670] MEM 0x20013000..0x2ffffff -> 0x20013000
[ 2.851127] dra7-pcie 51000000.pcie_rc: link is not up
[ 2.851310] dra7-pcie 51000000.pcie_rc: PCI host bridge to bus 0000:00
[ 2.851324] pci_bus 0000:00: root bus resource [bus 00-ff]
[ 2.851335] pci_bus 0000:00: root bus resource [io 0x0000-0xffff]
[ 2.851345] pci_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]
[ 2.851762] PCI: bus0: Fast back to back transfers disabled
[ 2.851886] PCI: bus1: Fast back to back transfers enabled
[ 2.851978] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201ffff]
[ 2.851994] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]
[ 2.852008] pci 0000:00:00.0: PCI bridge to [bus 01]
[ 2.852232] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt
[ 2.857143] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled
[ 2.859598] console [ttyS0] disabled
[ 2.859660] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base_baud = 3000000) is a
8250
[ 4.106513] console [ttyS0] enabled
[ 4.110549] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base_baud = 3000000) is a
8250
[ 4.119900] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base_baud = 3000000) is a
8250
[ 4.129947] [drm] Initialized drm 1.1.0 20060810
[ 4.136232] omapdss_dss 58000000.dss: master bind failed: -517
[ 4.313109] brd: module loaded
[ 4.401448] loop: module loaded
[ 4.416179] nand: No NAND device found
[ 4.419951] omap2-nand 80000000.nand: scan failed, may be bus-width mismatch
[ 4.430075] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.435520] 7 ofpart partitions found on MTD device spi32766.0
[ 4.441379] Creating 7 MTD partitions on "spi32766.0":
[ 4.446560] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.462618] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.478931] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.495852] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.512472] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.529825] 0x0000001e0000-0x00000009e0000 : "QSPI.kernel"
[ 4.546152] 0x00000009e0000-0x0000002000000 : "QSPI.file-system"
[ 4.563931] libphy: Fixed MDIO Bus: probed
[ 4.568601] tun: Universal TUN/TAP device driver, 1.6
[ 4.573674] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.580012] CAN device driver interface
[ 4.585002] c_can_platform 4ae3c000.can: c_can_platform device registered (regs=fce3c000,
irq=365)
[ 4.643739] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
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[ 4.649864] davinci\_mdio 48485000.mdio: detected phy mask fffffff3  
[ 4.670562] libphy: 48485000.mdio: probed  
[ 4.674657] davinci\_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver TI DP83867  
[ 4.682961] davinci\_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver TI DP83867  
[ 4.692009] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec  
[ 4.698717] cpsw 48484000.ethernet: cpts: overflow check period 800  
[ 4.705734] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed  
[ 4.713369] PPP generic driver version 2.4.2  
[ 4.717867] PPP BSD Compression module registered  
[ 4.722597] PPP Deflate Compression module registered  
[ 4.727727] PPP MPPE Compression module registered  
[ 4.732543] NET: Registered protocol family 24  
[ 4.739446] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver  
[ 4.746073] ehci-pci: EHCI PCI platform driver  
[ 4.750585] ehci-platform: EHCI generic platform driver  
[ 4.756205] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver  
[ 4.762438] ohci-pci: OHCI PCI platform driver  
[ 4.767075] ohci-platform: OHCI generic platform driver  
[ 4.773294] mousedev: PS/2 mouse device common for all mice  
[ 4.779098] usbcore: registered new interface driver xpad  
[ 4.784608] usbcore: registered new interface driver usb\_acecad  
[ 4.790597] usbcore: registered new interface driver aiptek  
[ 4.796280] usbcore: registered new interface driver gtco  
[ 4.801749] usbcore: registered new interface driver hanwang  
[ 4.807496] usbcore: registered new interface driver kbtab  
[ 4.813587] i2c /dev entries driver  
[ 4.818196] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin  
[ 4.825324] vip 48970000.vip: loading firmware vpdma-1b8.bin  
[ 4.831513] gspca\_main: v2.14.0 registered  
[ 4.839108] device-mapper: uevent: version 1.0.3  
[ 4.843913] vpe 489d0000.vpe: Device registered as /dev/video0  
[ 4.850024] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-devel@redhat.com  
[ 4.858535] vip 48970000.vip: VPDMA firmware loaded  
[ 4.874936] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 4.880590] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 4.887057] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.018656] ledtrig-cpu: registered to indicate activity on CPUs  
[ 5.024730] omap\_hsmmc 480d1000.mmc: card claims to support voltages below defined range  
[ 5.032963] hidraw: raw HID events driver (C) Jiri Kosina  
[ 5.041260] usbcore: registered new interface driver usbhid  
[ 5.046945] usbhid: USB HID core driver  
[ 5.051090] ashmem: initialized  
[ 5.059690] hwspinlock\_user gatemp: requested 20 hwspinlocks  
[ 5.065882] omap-rproc 58820000.ipu: assigned reserved memory node ipu1\_cma@9d000000  
[ 5.074846] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)  
[ 5.080425] remoteproc0: 58820000.ipu is available  
[ 5.086323] mmc0: new high speed SDIO card at address 0001  
[ 5.093038] remoteproc0: Note: remoteproc is still under development and considered experimental.  
[ 5.102171] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward



compatibility isn't yet guaranteed.

- [ 5.112725] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with error -2
- [ 5.121123] omap-rproc 55020000.ipu: assigned reserved memory node ipu2\_cma@95800000
- [ 5.128948] remoteproc0: Falling back to user helper
- [ 5.134100] remoteproc1: 55020000.ipu is available
- [ 5.138998] remoteproc1: Note: remoteproc is still under development and considered experimental.
- [ 5.148132] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.
- [ 5.158683] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with error -2
- [ 5.167086] omap-rproc 40800000.dsp: assigned reserved memory node dsp1\_cma@99000000
- [ 5.174931] remoteproc1: Falling back to user helper
- [ 5.180134] remoteproc2: 40800000.dsp is available
- [ 5.185077] remoteproc2: Note: remoteproc is still under development and considered experimental.
- [ 5.194336] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.
- [ 5.205219] omap-rproc 41000000.dsp: assigned reserved memory node dsp2\_cma@9f000000
- [ 5.213041] remoteproc3: 41000000.dsp is available
- [ 5.218043] remoteproc3: Note: remoteproc is still under development and considered experimental.
- [ 5.227131] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.
- [ 5.237667] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with error -2
- [ 5.249588] remoteproc2: Falling back to user helper
- [ 5.265726] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with error -2
- [ 5.274584] usbcore: registered new interface driver snd-usb-audio
- [ 5.282477] davinci-mcasp 48464000.mcasp: DAI is shared
- [ 5.287814] remoteproc3: Falling back to user helper
- [ 5.294059] davinci-mcasp 48474000.mcasp: DAI is shared
- [ 5.299514] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0
- [ 5.307401] u32 classifier
- [ 5.310122] input device check on
- [ 5.313881] Actions configured
- [ 5.317308] Netfilter messages via NETLINK v0.30.
- [ 5.322087] nf\_contrack version 0.5.0 (16384 buckets, 65536 max)
- [ 5.328756] ctnetlink v0.93: registering with nfnetlink.
- [ 5.335756] xt\_time: kernel timezone is -0000
- [ 5.340519] ip\_tables: (C) 2000-2006 Netfilter Core Team
- [ 5.346096] arp\_tables: (C) 2002 David S. Miller
- [ 5.350878] Initializing XFRM netlink socket
- [ 5.355836] NET: Registered protocol family 10
- [ 5.371415] mip6: Mobile IPv6
- [ 5.374470] ip6\_tables: (C) 2000-2006 Netfilter Core Team
- [ 5.380226] sit: IPv6 over IPv4 tunneling driver
- [ 5.385449] NET: Registered protocol family 17
- [ 5.389937] NET: Registered protocol family 15
- [ 5.394430] can: controller area network core (rev 20120528 abi 9)
- [ 5.400694] NET: Registered protocol family 29
- [ 5.405237] can: raw protocol (rev 20120528)
- [ 5.409531] can: broadcast manager protocol (rev 20120528 t)
- [ 5.415246] can: netlink gateway (rev 20130117) max\_hops=1

[ 5.421061] NET: Registered protocol family 41  
[ 5.425890] omap\_voltage\_late\_init: Voltage driver support not added  
[ 5.432870] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.439109] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm  
[ 5.445369] ti\_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517  
[ 5.451971] Power Management for TI OMAP4+ devices.  
[ 5.457133] Registering SWP/SWPB emulation handler  
[ 5.462399] registered taskstats version 1  
[ 5.467400] dmm 4e000000.dmm: workaround for errata i878 in use  
[ 5.474981] dmm 4e000000.dmm: initialized all PAT entries  
[ 5.492492] omapdss\_dss 58000000.dss: master bind failed: -517  
[ 5.501469] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 5.507492] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 5.513945] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.521623] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.527890] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm  
[ 5.534169] ti\_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517  
[ 5.541713] omapdss\_dss 58000000.dss: master bind failed: -517  
[ 5.549572] input: gpio\_keys as /devices/platform/gpio\_keys/input/input0  
[ 5.557121] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 5.563079] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 5.569618] hctosys: unable to open rtc device (rtc0)  
[ 5.583783] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.591710] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.604303] evm\_1v8: disabling  
[ 5.607380] evm\_3v3\_sw: disabling  
[ 5.610709] aic\_dvdd: disabling  
[ 5.613945] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm  
[ 5.620226] ti\_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517  
[ 5.626740] vmmcw\_l\_fixed: disabling  
[ 5.630249] pbias\_mmc\_omap5: disabling  
[ 5.634706] evm\_3v3\_sd: disabling  
[ 5.638259] ALSA device list:  
[ 5.641238] No soundcards found.  
[ 5.645344] omapdss\_dss 58000000.dss: master bind failed: -517  
[ 5.653936] Freeing unused kernel memory: 2048K  
[ 5.661327] init: init first stage started!  
[ 5.665867] init: Using Android DT directory /proc/device-tree/firmware/android/  
[ 5.793958] init: bool android::init::FirstStageMount::InitRequiredDevices(): partition(s) not found in /sys, waiting for their uevent(s): system, vendor  
[ 15.809326] init: Wait for partitions returned after 10001ms  
[ 15.815059] init: bool android::init::FirstStageMount::InitRequiredDevices(): partition(s) not found after polling timeout: system, vendor  
[ 15.827671] init: Failed to mount required partitions early ...  
[ 15.833630] init: panic: rebooting to bootloader  
[ 15.839445] init: Reboot start, reason: reboot, rebootTarget: bootloader  
[ 15.846271] init: android::WriteStringToFile open failed: No such file or directory  
[ 15.854023] init: Shutdown timeout: 6000 ms  
[ 15.858274] init: terminating init services

```
[ 15.862498] init: waitid failed: No child processes
[ 15.867471] init: Terminating running services took 28ms with remaining services:0
[ 15.875143] init: waitid failed: No child processes
[ 15.880053] init: vold not running, skipping vold shutdown
[ 15.986113] init: powerctl_shutdown_time_ms:146:0
[ 15.990853] init: Reboot ending, jumping to kernel
[ 15.996044] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.001589] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.007150] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.012684] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.020040] 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
=>
=>
=>
=>
=>
=>
=>
=> boot
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.nmodes=1 androidboot.selinux=permissive snd.slots_reserved=1,1 snd-soc-core.pmdown_tg
[ 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 rwddata, 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: 0xffffffffffffff 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
[ 0.000740] Calibrating delay loop (skipped), value calculated using timer frequency.. 12.29
BogoMIPS (lpj=61475)
[ 0.000754] pid_max: default: 32768 minimum: 301
[ 0.000828] Security Framework initialized
[ 0.000839] 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
[ 0.001514] Initializing cgroup subsys memory
[ 0.001540] 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
[ 0.001859] /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
[ 1.080512] 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.
[ 1.080565] CPU0: update max cpu_capacity 1024
[ 1.120888] 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
[ 1.221304] omap_hwmod: cal: no dt node
[ 1.221314] -----[ cut here ]-----
[ 1.221330] WARNING: CPU: 0 PID: 1 at arch/arm/mach-omap2/omap_hwmod.c:2523
_init+0x2d4/0x440()
[ 1.221337] omap_hwmod: cal: doesn't have mpu register target base
[ 1.221344] Modules linked in:
[ 1.221358] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 4.4.117-01630-g8116d3ba53e3-dirty #2
[ 1.221366] Hardware name: Generic DRA74X (Flattened Device Tree)
[ 1.221372] Backtrace:
[ 1.221389] [<c020c80c>] (dump_backtrace) from [<c020ca08>] (show_stack+0x18/0x1c)
[ 1.221396] r6:60000013 r5:c1242394 r4:00000000 r3:dc8ba675
[ 1.221425] [<c020c9f0>] (show_stack) from [<c0b44160>] (dump_stack+0x94/0xa8)
[ 1.221438] [<c0b440cc>] (dump_stack) from [<c0232000>] (warn_slowpath_fmt+0xa8/0xec)
[ 1.221444] r6:000009db r5:c100f268 r4:c120394c r3:dc8ba675
[ 1.221466] [<c0231f5c>] (warn_slowpath_fmt) from [<c100f268>] (_init+0x2d4/0x440)
[ 1.221472] r3:c0e065f8 r2:c0e03fe0
[ 1.221484] r7:00000000 r6:00000000 r5:c120394c r4:c1217c48
[ 1.221505] [<c100ef94>] (_init) from [<c100fc34>] (__omap_hwmod_setup_all+0x4c/0x98)
[ 1.221511] r10:c120394c r9:eea21680 r8:c120bd68 r7:00000000 r6:c100fbe8 r5:c120e8d0
[ 1.221532] r4:c1217c48
[ 1.221545] [<c100fbe8>] (__omap_hwmod_setup_all) from [<c0201864>]
(do_one_initcall+0xa8/0x204)
[ 1.221551] r5:c120bd68 r4:00000001
[ 1.221567] [<c02017bc>] (do_one_initcall) from [<c10010b0>] (kernel_init_freeable+0x1f8/0x2b8)
[ 1.221574] r10:c107583c r9:c1000700 r8:c1075820 r7:c129e000 r6:c129e000 r5:c1083db4
[ 1.221594] r4:00000001
[ 1.221607] [<c1000eb8>] (kernel_init_freeable) from [<c0b46398>] (kernel_init+0x10/0x148)
[ 1.221613] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c0b46388
[ 1.221633] r4:00000000
[ 1.221647] [<c0b46388>] (kernel_init) from [<c02080a0>] (ret_from_fork+0x14/0x34)
[ 1.221653] r5:c0b46388 r4:00000000
[ 1.221679] ---[ end trace f6d589708a8e10f2 ]---
[ 1.310555] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns:
19112604462750000 ns
[ 1.310577] futex hash table entries: 512 (order: 3, 32768 bytes)
[ 1.324235] pinctrl core: initialized pinctrl subsystem
[ 1.325251] NET: Registered protocol family 16
[ 1.326382] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 1.370915] cpuidle: using governor ladder
[ 1.430964] cpuidle: using governor menu
[ 1.439923] OMAP GPIO hardware version 0.1
[ 1.444082] GPIO line 161 (radio_rst) hogged as output/low
[ 1.446426] irq: no irq domain found for /ocp/14@4a000000/scm@2000/pinmux@1400 !
```

[ 1.463753] omap-gpmc 50000000.gpmc: GPMC revision 6.0  
[ 1.463768] gpmc\_mem\_init: disabling cs 0 mapped at 0x0-0x1000000  
[ 1.470533] platform 41501000.mmu: Cannot lookup hwmod 'mmu0\_dsp2'  
[ 1.470845] platform 41502000.mmu: Cannot lookup hwmod 'mmu1\_dsp2'  
[ 1.471119] platform 41000000.dsp: Cannot lookup hwmod 'dsp2'  
[ 1.475623] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.  
[ 1.475635] hw-breakpoint: maximum watchpoint size is 8 bytes.  
[ 1.476123] omap4\_sram\_init:Unable to allocate sram needed to handle errata I688  
[ 1.476133] omap4\_sram\_init:Unable to get sram pool needed to handle errata I688  
[ 1.476833] OMAP DMA hardware revision 0.0  
[ 1.582055] omap-dma-engine 4a056000.dma-controller: OMAP DMA engine driver  
(LinkedList1/2/3 supported)  
[ 1.583323] edma 43300000.edma: memcpy is disabled  
[ 1.588182] edma 43300000.edma: TI EDMA DMA engine driver  
[ 1.592928] omap-iommu 40d01000.mmu: 40d01000.mmu registered  
[ 1.593124] omap-iommu 40d02000.mmu: 40d02000.mmu registered  
[ 1.593292] omap-iommu 58882000.mmu: 58882000.mmu registered  
[ 1.593467] omap-iommu 55082000.mmu: 55082000.mmu registered  
[ 1.593773] omap-iommu 41501000.mmu: 41501000.mmu registered  
[ 1.593962] omap-iommu 41502000.mmu: 41502000.mmu registered  
[ 1.596022] usbcore: registered new interface driver usbfs  
[ 1.596083] usbcore: registered new interface driver hub  
[ 1.596199] usbcore: registered new device driver usb  
[ 1.597706] palmas 0-0058: IRQ missing: skipping irq request  
[ 1.612196] palmas 0-0058: Muxing GPIO 1d, PWM 0, LED 0  
[ 1.621693] smps9: failed to apply 1800000uV constraint(-22)  
[ 1.621806] palmas-pmic 48070000.i2c:tps659038@58:tps659038\_pmic: failed to register  
48070000.i2c:tps659038@58:tps659038\_pmic regulator  
[ 1.622648] palmas-pmic: probe of 48070000.i2c:tps659038@58:tps659038\_pmic failed with error  
-22  
[ 1.623379] pcf857x 0-0020: probed  
[ 1.623987] pcf857x 0-0021: probed  
[ 1.624134] omap\_i2c 48070000.i2c: bus 0 rev0.12 at 400 kHz  
[ 2.642806] omap\_i2c 48072000.i2c: controller timed out  
[ 2.662834] pcf857x: probe of 1-0026 failed with error -110  
[ 2.663396] omap\_i2c 48072000.i2c: bus 1 rev0.12 at 400 kHz  
[ 2.663853] omap\_i2c 48060000.i2c: bus 2 rev0.12 at 400 kHz  
[ 2.683051] pcf857x 3-0021: probed  
[ 2.683078] omap\_i2c 4807a000.i2c: bus 3 rev0.12 at 400 kHz  
[ 2.683312] media: Linux media interface: v0.10  
[ 2.683366] Linux video capture interface: v2.00  
[ 2.683409] pps\_core: LinuxPPS API ver. 1 registered  
[ 2.683417] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti  
<giometti@linux.it>  
[ 2.683443] PTP clock support registered  
[ 2.683493] EDAC MC: Ver: 3.0.0  
[ 2.693458] omap-mailbox 48840000.mailbox: omap mailbox rev 0x400  
[ 2.693759] omap-mailbox 48842000.mailbox: omap mailbox rev 0x400  
[ 2.694228] Advanced Linux Sound Architecture Driver Initialized.

[ 2.703407] clocksource: Switched to clocksource arch\_sys\_counter  
[ 2.746425] NET: Registered protocol family 2  
[ 2.747028] TCP established hash table entries: 8192 (order: 3, 32768 bytes)  
[ 2.747093] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)  
[ 2.747219] TCP: Hash tables configured (established 8192 bind 8192)  
[ 2.747273] UDP hash table entries: 512 (order: 2, 16384 bytes)  
[ 2.747304] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)  
[ 2.747457] NET: Registered protocol family 1  
[ 2.748049] Trying to unpack rootfs image as initramfs...  
[ 2.792241] Freeing initrd memory: 1092K  
[ 2.793176] hw perfevents: enabled with armv7\_cortex\_a15 PMU driver, 7 counters available  
[ 2.796008] audit: initializing netlink subsys (disabled)  
[ 2.796066] audit: type=2000 audit(2.789:1): initialized  
[ 2.813499] VFS: Disk quotas dquot\_6.6.0  
[ 2.813674] VFS: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)  
[ 2.824785] squashfs: version 4.0 (2009/01/31) Phillip Lougher  
[ 2.825038] ntfs: driver 2.1.32 [Flags: R/O].  
[ 2.825366] fuse init (API version 7.23)  
[ 2.830336] bounce: pool size: 64 pages  
[ 2.830495] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)  
[ 2.830509] io scheduler noop registered  
[ 2.830521] io scheduler deadline registered  
[ 2.830553] io scheduler cfq registered (default)  
[ 2.835418] pinctrl-single 4a003400.pinmux: 282 pins at pa fc003400 size 1128  
[ 2.838794] PCI host bridge /ocp/axi@0/pcie\_rc@51000000 ranges:  
[ 2.838833] IO 0x20003000..0x20012fff -> 0x00000000  
[ 2.838855] MEM 0x20013000..0x2ffffff -> 0x20013000  
[ 2.870455] dra7-pcie 51000000.pcie\_rc: link is not up  
[ 2.870634] dra7-pcie 51000000.pcie\_rc: PCI host bridge to bus 0000:00  
[ 2.870649] pci\_bus 0000:00: root bus resource [bus 00-ff]  
[ 2.870660] pci\_bus 0000:00: root bus resource [io 0x0000-0xffff]  
[ 2.870669] pci\_bus 0000:00: root bus resource [mem 0x20013000-0x2ffffff]  
[ 2.871084] PCI: bus0: Fast back to back transfers disabled  
[ 2.871208] PCI: bus1: Fast back to back transfers enabled  
[ 2.871299] pci 0000:00:00.0: BAR 0: assigned [mem 0x20100000-0x201fffff]  
[ 2.871315] pci 0000:00:00.0: BAR 1: assigned [mem 0x20020000-0x2002ffff]  
[ 2.871328] pci 0000:00:00.0: PCI bridge to [bus 01]  
[ 2.871553] pcieport 0000:00:00.0: Signaling PME through PCIe PME interrupt  
[ 2.876479] Serial: 8250/16550 driver, 10 ports, IRQ sharing disabled  
[ 2.878957] console [ttyS0] disabled  
[ 2.879018] 4806a000.serial: ttyS0 at MMIO 0x4806a000 (irq = 301, base\_baud = 3000000) is a  
8250  
[ 4.125906] console [ttyS0] enabled  
[ 4.129946] 4806c000.serial: ttyS1 at MMIO 0x4806c000 (irq = 302, base\_baud = 3000000) is a  
8250  
[ 4.139292] 48020000.serial: ttyS2 at MMIO 0x48020000 (irq = 303, base\_baud = 3000000) is a  
8250  
[ 4.149345] [drm] Initialized drm 1.1.0 20060810  
[ 4.155634] omapdss\_dss 58000000.dss: master bind failed: -517



```
[ 4.332530] brd: module loaded
[ 4.420865] loop: module loaded
[ 4.435592] nand: No NAND device found
[ 4.439367] omap2-nand 8000000.nand: scan failed, may be bus-width mismatch
[ 4.449488] m25p80 spi32766.0: s25fl256s1 (32768 Kbytes)
[ 4.454934] 7 ofpart partitions found on MTD device spi32766.0
[ 4.460793] Creating 7 MTD partitions on "spi32766.0":
[ 4.465974] 0x000000000000-0x000000040000 : "QSPI.SPL"
[ 4.482037] 0x000000040000-0x000000140000 : "QSPI.u-boot"
[ 4.498354] 0x000000140000-0x0000001c0000 : "QSPI.u-boot-spl-os"
[ 4.515266] 0x0000001c0000-0x0000001d0000 : "QSPI.u-boot-env"
[ 4.531885] 0x0000001d0000-0x0000001e0000 : "QSPI.u-boot-env.backup1"
[ 4.549230] 0x0000001e0000-0x0000009e0000 : "QSPI.kernel"
[ 4.565560] 0x0000009e0000-0x000002000000 : "QSPI.file-system"
[ 4.583309] libphy: Fixed MDIO Bus: probed
[ 4.588035] tun: Universal TUN/TAP device driver, 1.6
[ 4.593108] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 4.599422] CAN device driver interface
[ 4.604410] c_can_platform 4ae3c000.can: c_can_platform device registered (regs=fce3c000,
irq=365)
[ 4.663446] davinci_mdio 48485000.mdio: davinci mdio revision 1.6
[ 4.669572] davinci_mdio 48485000.mdio: detected phy mask ffffffff3
[ 4.690173] libphy: 48485000.mdio: probed
[ 4.694268] davinci_mdio 48485000.mdio: phy[2]: device 48485000.mdio:02, driver TI DP83867
[ 4.702572] davinci_mdio 48485000.mdio: phy[3]: device 48485000.mdio:03, driver TI DP83867
[ 4.711619] cpsw 48484000.ethernet: Detected MACID = fc:0f:4b:25:9c:ec
[ 4.718327] cpsw 48484000.ethernet: cpsw: overflow check period 800
[ 4.725350] cpsw 48484000.ethernet: cpsw: Detected MACID = fc:0f:4b:25:9c:ed
[ 4.732984] PPP generic driver version 2.4.2
[ 4.737483] PPP BSD Compression module registered
[ 4.742213] PPP Deflate Compression module registered
[ 4.747343] PPP MPPE Compression module registered
[ 4.752158] NET: Registered protocol family 24
[ 4.759072] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 4.765698] ehci-pci: EHCI PCI platform driver
[ 4.770210] ehci-platform: EHCI generic platform driver
[ 4.775833] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 4.782065] ohci-pci: OHCI PCI platform driver
[ 4.786686] ohci-platform: OHCI generic platform driver
[ 4.792920] mousedev: PS/2 mouse device common for all mice
[ 4.798720] usbcore: registered new interface driver xpad
[ 4.804232] usbcore: registered new interface driver usb_acecad
[ 4.810219] usbcore: registered new interface driver aiptek
[ 4.815900] usbcore: registered new interface driver gtco
[ 4.821370] usbcore: registered new interface driver hanwang
[ 4.827117] usbcore: registered new interface driver kbtap
[ 4.833205] i2c /dev entries driver
[ 4.837815] vpe 489d0000.vpe: loading firmware vpdma-1b8.bin
[ 4.844944] vip 48970000.vip: loading firmware vpdma-1b8.bin
```

[ 4.851132] gspca\_main: v2.14.0 registered  
[ 4.858928] device-mapper: uevent: version 1.0.3  
[ 4.863731] vpe 489d0000.vpe: Device registered as /dev/video0  
[ 4.869844] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised: dm-devel@redhat.com  
[ 4.878358] vip 48970000.vip: VPDMA firmware loaded  
[ 4.894785] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 4.900450] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 4.906917] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.038434] ledtrig-cpu: registered to indicate activity on CPUs  
[ 5.044546] omap\_hsmmc 480d1000.mmc: card claims to support voltages below defined range  
[ 5.052780] hidraw: raw HID events driver (C) Jiri Kosina  
[ 5.061076] usbcore: registered new interface driver usbhid  
[ 5.066725] usbhid: USB HID core driver  
[ 5.070870] ashmem: initialized  
[ 5.079461] hwspinlock\_user gatemp: requested 20 hwspinlocks  
[ 5.085650] omap-rproc 58820000.ipu: assigned reserved memory node ipu1\_cma@9d000000  
[ 5.094611] mmc0: queuing unknown CIS tuple 0x91 (3 bytes)  
[ 5.100191] remoteproc0: 58820000.ipu is available  
[ 5.106090] mmc0: new high speed SDIO card at address 0001  
[ 5.112802] remoteproc0: Note: remoteproc is still under development and considered experimental.  
[ 5.121935] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.  
[ 5.132490] remoteproc0: Direct firmware load for dra7-ipu1-fw.xem4 failed with error -2  
[ 5.140886] omap-rproc 55020000.ipu: assigned reserved memory node ipu2\_cma@95800000  
[ 5.148710] remoteproc0: Falling back to user helper  
[ 5.153863] remoteproc1: 55020000.ipu is available  
[ 5.158762] remoteproc1: Note: remoteproc is still under development and considered experimental.  
[ 5.167894] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.  
[ 5.178445] remoteproc1: Direct firmware load for dra7-ipu2-fw.xem4 failed with error -2  
[ 5.186848] omap-rproc 40800000.dsp: assigned reserved memory node dsp1\_cma@99000000  
[ 5.194694] remoteproc1: Falling back to user helper  
[ 5.199897] remoteproc2: 40800000.dsp is available  
[ 5.204839] remoteproc2: Note: remoteproc is still under development and considered experimental.  
[ 5.214098] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.  
[ 5.224982] omap-rproc 41000000.dsp: assigned reserved memory node dsp2\_cma@9f000000  
[ 5.232802] remoteproc3: 41000000.dsp is available  
[ 5.237804] remoteproc3: Note: remoteproc is still under development and considered experimental.  
[ 5.246894] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.  
[ 5.257430] remoteproc2: Direct firmware load for dra7-dsp1-fw.xe66 failed with error -2  
[ 5.269348] remoteproc2: Falling back to user helper  
[ 5.285484] remoteproc3: Direct firmware load for dra7-dsp2-fw.xe66 failed with error -2  
[ 5.294350] usbcore: registered new interface driver snd-usb-audio  
[ 5.302243] davinci-mcasp 48464000.mcasp: DAI is shared  
[ 5.307579] remoteproc3: Falling back to user helper  
[ 5.313830] davinci-mcasp 48474000.mcasp: DAI is shared  
[ 5.319286] davinci-mcasp 4847c000.mcasp: invalid tdm slots: 0

[ 5.327169] u32 classifier  
[ 5.329888] input device check on  
[ 5.333645] Actions configured  
[ 5.337071] Netfilter messages via NETLINK v0.30.  
[ 5.341852] nf\_conntrack version 0.5.0 (16384 buckets, 65536 max)  
[ 5.348523] ctnetlink v0.93: registering with nfnetlink.  
[ 5.355524] xt\_time: kernel timezone is -0000  
[ 5.360292] ip\_tables: (C) 2000-2006 Netfilter Core Team  
[ 5.365869] arp\_tables: (C) 2002 David S. Miller  
[ 5.370650] Initializing XFRM netlink socket  
[ 5.375610] NET: Registered protocol family 10  
[ 5.391190] mip6: Mobile IPv6  
[ 5.394248] ip6\_tables: (C) 2000-2006 Netfilter Core Team  
[ 5.400003] sit: IPv6 over IPv4 tunneling driver  
[ 5.405229] NET: Registered protocol family 17  
[ 5.409716] NET: Registered protocol family 15  
[ 5.414208] can: controller area network core (rev 20120528 abi 9)  
[ 5.420472] NET: Registered protocol family 29  
[ 5.425013] can: raw protocol (rev 20120528)  
[ 5.429309] can: broadcast manager protocol (rev 20120528 t)  
[ 5.435024] can: netlink gateway (rev 20130117) max\_hops=1  
[ 5.440848] NET: Registered protocol family 41  
[ 5.445676] omap\_voltage\_late\_init: Voltage driver support not added  
[ 5.452663] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.458901] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm  
[ 5.465160] ti\_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517  
[ 5.471760] Power Management for TI OMAP4+ devices.  
[ 5.476922] Registering SWP/SWPB emulation handler  
[ 5.482182] registered taskstats version 1  
[ 5.487183] dmm 4e000000.dmm: workaround for errata i878 in use  
[ 5.494761] dmm 4e000000.dmm: initialized all PAT entries  
[ 5.512291] omapdss\_dss 58000000.dss: master bind failed: -517  
[ 5.521259] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 5.527277] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 5.533732] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.541399] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.547666] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm  
[ 5.553945] ti\_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517  
[ 5.561484] omapdss\_dss 58000000.dss: master bind failed: -517  
[ 5.569342] input: gpio\_keys as /devices/platform/gpio\_keys/input/input0  
[ 5.576891] omap\_hsmmc 4809c000.mmc: Got CD GPIO  
[ 5.582841] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr25 mode  
[ 5.589379] hctosys: unable to open rtc device (rtc0)  
[ 5.603494] omap\_hsmmc 480b4000.mmc: no pinctrl state for sdr12 mode  
[ 5.611428] Adding alias for supply vdd,cpu0 -> vdd,4a003b20.oppdm  
[ 5.623959] evm\_1v8: disabling  
[ 5.627035] evm\_3v3\_sw: disabling  
[ 5.630362] aic\_dvdd: disabling  
[ 5.633599] Adding alias for supply vbb,cpu0 -> vbb,4a003b20.oppdm

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[ 5.639882] ti_oppdm 4a003b20.oppdm: Unable to get vdd regulator:-517
[ 5.646398] vmmcwl_fixed: disabling
[ 5.649912] evm_3v3_sd: disabling
[ 5.654154] ALSA device list:
[ 5.657137] No soundcards found.
[ 5.661444] omapdss_dss 58000000.dss: master bind failed: -517
[ 5.668802] Freeing unused kernel memory: 2048K
[ 5.677303] init: init first stage started!
[ 5.681772] init: Using Android DT directory /proc/device-tree/firmware/android/
[ 5.809690] init: bool android::init::FirstStageMount::InitRequiredDevices(): partition(s) not found in
/sys, waiting for their uevent(s): system, vendor
[ 15.825028] init: Wait for partitions returned after 10001ms
[ 15.830735] init: bool android::init::FirstStageMount::InitRequiredDevices(): partition(s) not found
after polling timeout: system, vendor
[ 15.843354] init: Failed to mount required partitions early ...
[ 15.849362] init: panic: rebooting to bootloader
[ 15.855171] init: Reboot start, reason: reboot, rebootTarget: bootloader
[ 15.861951] init: android::WriteStringToFile open failed: No such file or directory
[ 15.869704] init: Shutdown timeout: 6000 ms
[ 15.874003] init: terminating init services
[ 15.878228] init: waitid failed: No child processes
[ 15.883147] init: Terminating running services took 27ms with remaining services:0
[ 15.890823] init: waitid failed: No child processes
[ 15.895776] init: vold not running, skipping vold shutdown
[ 16.001801] init: powerctl_shutdown_time_ms:146:0
[ 16.006563] init: Reboot ending, jumping to kernel
[ 16.011734] remoteproc3: failed to load dra7-dsp2-fw.xe66
[ 16.017300] remoteproc2: failed to load dra7-dsp1-fw.xe66
[ 16.022842] remoteproc1: failed to load dra7-ipu2-fw.xem4
[ 16.028391] remoteproc0: failed to load dra7-ipu1-fw.xem4
[ 16.035732] 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 8fffd1b ... OK

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

Using machid 0xfe6 from environment

Starting kernel ...

no pinctrl for hs200\_1\_8v