

U-Boot SPL 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:21)
Trying to boot from SPI

U-Boot 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:35 +0000)

CPU : AM335X-GP rev 2.1
I2C: ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB
Net: cpsw
Hit any key to stop autoboot: 2 1 0
u-boot state: RESCUE
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 1
Booting from U-boot: 0x0c0000
switch: Loading u-boot from SPI, 0x000c0000
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

U-Boot 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:21 +0000)

CPU : AM335X-GP rev 2.1
I2C: ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB
Net: cpsw
Hit any key to stop autoboot: 2 1 0
u-boot state: GENERIC
Booting kernel0 with rootfs0...
kfail: 1
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 2
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB
device 0 offset 0x940000, size 0x40000
SF: 262144 bytes @ 0x940000 Read: OK
device 0 offset 0x240000, size 0x380000
SF: 3670016 bytes @ 0x240000 Read: OK
Flattened Device Tree blob at 88000000
Booting using the fdt blob at 0x88000000
Loading Device Tree to 9df7d000, end 9df895b2 ... OK

Starting kernel ...

U-Boot SPL 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:21)
Trying to boot from SPI

U-Boot 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:35 +0000)

```
CPU : AM335X-GP rev 2.1
I2C:  ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Net:  cpsw
Hit any key to stop autoboot:  2  1  0
u-boot state: RESCUE
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 1
Booting from U-boot: 0x0c0000
switch: Loading u-boot from SPI, 0x000c0000
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
```

U-Boot 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:21 +0000)

```
CPU : AM335X-GP rev 2.1
I2C:  ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Net:  cpsw
Hit any key to stop autoboot:  2  1  0
u-boot state: GENERIC
kernel boot failure detected ... switch active kernel 0 to 1
Booting kernell with rootfs1...
kfail: 8
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 2
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
device 0 offset 0x980000, size 0x40000
SF: 262144 bytes @ 0x980000 Read: OK
device 0 offset 0x5c0000, size 0x380000
SF: 3670016 bytes @ 0x5c0000 Read: OK
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Device Tree to 9df7d000, end 9df895b2 ... OK
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 4.14.67+elv2-nwc2.r166 (oe-user@oe-host) (gcc
version 7.2.1 20171011 (Linaro GCC 7.2-2017.11)) #2 PREEMPT Fri Sep 25 07:53:48
UTC 2020
[ 0.000000] CPU: ARMv7 Processor [413fc082] revision 2 (ARMv7), cr=10c5387d
```

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[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[ 0.000000] OF: fdt: Machine model: TI AM335x ELV
[ 0.000000] Memory policy: Data cache writeback
[ 0.000000] cma: Reserved 48 MiB at 0x9a800000
[ 0.000000] CPU: All CPU(s) started in SVC mode.
[ 0.000000] AM335X ES2.1 (neon)
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 129920
[ 0.000000] Kernel command line: console=ttyS5,115200n8
root=/dev/ubiblock0_11 ro,noatime ubi.mtd=rootfs1 ubi.mtd=var ubi.mtd=app0
ubi.mtd=app1 ubi.block=0,11 rootfstype=squashfs noinitrd rootwait=1
[ 0.000000] PID hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000000] Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
[ 0.000000] Memory: 457684K/524288K available (7168K kernel code, 579K
rwdata, 2212K rodata, 1024K init, 267K bss, 17452K reserved, 49152K
cma-reserved, OK highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]     vector : 0xffff0000 - 0xffff1000   (   4 kB)
[ 0.000000]     fixmap : 0xffc00000 - 0xfff00000   (3072 kB)
[ 0.000000]     vmalloc : 0xe0800000 - 0xff800000   ( 496 MB)
[ 0.000000]     lowmem  : 0xc0000000 - 0xe0000000   ( 512 MB)
[ 0.000000]     pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
[ 0.000000]     modules : 0xbf000000 - 0xbfe00000   (  14 MB)
[ 0.000000]       .text : 0xc0008000 - 0xc0800000   (8160 kB)
[ 0.000000]       .init : 0xc0b00000 - 0xc0c00000   (1024 kB)
[ 0.000000]       .data : 0xc0c00000 - 0xc0c90fbc   ( 580 kB)
[ 0.000000]       .bss : 0xc0c90fc0 - 0xc0cd3c2c   ( 268 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[ 0.000000] ftrace: allocating 24797 entries in 73 pages
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000]   Tasks RCU enabled.
[ 0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
[ 0.000000] IRQ: Found an INTC at 0xfa200000 (revision 5.0) with 128
interrupts
[ 0.000000] OMAP clockevent source: timer2 at 25000000 Hz
[ 0.000020] sched_clock: 32 bits at 25MHz, resolution 40ns, wraps every
85899345900ns
[ 0.000047] clocksource: timer1: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 76450417870 ns
[ 0.000062] OMAP clocksource: timer1 at 25000000 Hz
[ 0.000308] timer_probe: no matching timers found
[ 0.000565] Console: colour dummy device 80x30
[ 0.000620] Calibrating delay loop... 597.60 BogoMIPS (lpj=2988032)
[ 0.118723] pid_max: default: 32768 minimum: 301
[ 0.118973] Mount-cache hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.118992] Mountpoint-cache hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.119984] CPU: Testing write buffer coherency: ok
[ 0.120919] Setting up static identity map for 0x80100000 - 0x80100060
[ 0.121128] Hierarchical SRCU implementation.
[ 0.123492] devtmpfs: initialized
[ 0.135125] random: get_random_u32 called from bucket_table_alloc+0x8c/0x1b0
with crng_init=0
[ 0.135760] VFP support v0.3: implementor 41 architecture 3 part 30 variant c
rev 3
[ 0.136135] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns
[ 0.136164] futex hash table entries: 256 (order: -1, 3072 bytes)

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[ 0.140759] pinctrl core: initialized pinctrl subsystem
[ 0.142154] NET: Registered protocol family 16
[ 0.145199] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 0.216911] cpuidle: using governor ladder
[ 0.216969] cpuidle: using governor menu
[ 0.223033] OMAP GPIO hardware version 0.1
[ 0.237810] hw-breakpoint: debug architecture 0x4 unsupported.
[ 0.254549] edma 49000000.edma: TI EDMA DMA engine driver
[ 0.257170] omap_i2c 44e0b000.i2c: could not find pctldev for node
/ocp/14_wkup@44c00000/scm@210000/pinmux@800/i2c0_pins_default, deferring probe
[ 0.257253] omap_i2c 4819c000.i2c: could not find pctldev for node
/ocp/14_wkup@44c00000/scm@210000/pinmux@800/i2c2_pins_default, deferring probe
[ 0.257452] pps_core: LinuxPPS API ver. 1 registered
[ 0.257465] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo
Giometti <giometti@linux.it>
[ 0.257496] PTP clock support registered
[ 0.257545] EDAC MC: Ver: 3.0.0
[ 0.258581] omap-mailbox 480c8000.mailbox: omap mailbox rev 0x400
[ 0.259232] Advanced Linux Sound Architecture Driver Initialized.
[ 0.260865] clocksource: Switched to clocksource timer1
[ 0.356786] NET: Registered protocol family 2
[ 0.357734] TCP established hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.357807] TCP bind hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.357868] TCP: Hash tables configured (established 4096 bind 4096)
[ 0.357996] UDP hash table entries: 256 (order: 0, 4096 bytes)
[ 0.358022] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
[ 0.358223] NET: Registered protocol family 1
[ 0.358802] RPC: Registered named UNIX socket transport module.
[ 0.358821] RPC: Registered udp transport module.
[ 0.358831] RPC: Registered tcp transport module.
[ 0.358840] RPC: Registered tcp NFSv4.1 backchannel transport module.
[ 0.359733] hw perfevents: no interrupt-affinity property for /pmu, guessing.
[ 0.359884] hw perfevents: enabled with armv7_cortex_a8 PMU driver, 5
counters available
[ 0.362203] workingset: timestamp_bits=14 max_order=17 bucket_order=3
[ 0.368296] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 0.369123] NFS: Registering the id_resolver key type
[ 0.369181] Key type id_resolver registered
[ 0.369193] Key type id_legacy registered
[ 0.377573] io scheduler noop registered
[ 0.377599] io scheduler deadline registered
[ 0.377948] io scheduler cfq registered (default)
[ 0.377963] io scheduler mq-deadline registered
[ 0.377975] io scheduler kyber registered
[ 0.379301] pinctrl-single 44e10800.pinmux: 142 pins at pa f9e10800 size 568
[ 0.447912] Serial: 8250/16550 driver, 6 ports, IRQ sharing disabled
[ 0.451071] 48022000.serial: ttyS1 at MMIO 0x48022000 (irq = 30, base_baud =
3000000) is a 8250
[ 0.452357] 481a6000.serial: ttyS3 at MMIO 0x481a6000 (irq = 31, base_baud =
3000000) is a 8250
[ 0.453506] 481a8000.serial: ttyS4 at MMIO 0x481a8000 (irq = 32, base_baud =
3000000) is a 8250
[ 0.454577] 481aa000.serial: ttyS5 at MMIO 0x481aa000 (irq = 33, base_baud =
3000000) is a 8250
[ 1.055714] console [ttyS5] enabled
[ 1.061530] omap_rng 48310000.rng: Random Number Generator ver. 20
[ 1.079936] brd: module loaded
[ 1.092099] loop: module loaded

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[ 1.097624] m25p80 spi0.0: non-uniform erase sector maps are not supported
yet.
[ 1.105165] m25p80 spi0.0: s25fl512s (65536 Kbytes)
[ 1.110181] 15 ofpart partitions found on MTD device spi0.0
[ 1.115821] Creating 15 MTD partitions on "spi0.0":
[ 1.120735] 0x0000000000000-0x000000040000 : "SPL"
[ 1.126760] 0x000000040000-0x0000000c0000 : "rescue-u-boot"
[ 1.133491] 0x0000000c0000-0x000000140000 : "u-boot0"
[ 1.139623] 0x000000140000-0x0000001c0000 : "u-boot1"
[ 1.145830] 0x0000001c0000-0x000000200000 : "u-boot-env0"
[ 1.152325] 0x000000200000-0x000000240000 : "u-boot-env1"
[ 1.158767] 0x000000240000-0x0000005c0000 : "kernel0"
[ 1.164966] 0x0000005c0000-0x000000940000 : "kernel1"
[ 1.171091] 0x000000940000-0x000000980000 : "dtb0"
[ 1.176980] 0x000000980000-0x0000009c0000 : "dtb1"
[ 1.182904] 0x0000009c0000-0x000001d80000 : "rootfs0"
[ 1.189015] 0x000001d80000-0x000003140000 : "rootfs1"
[ 1.195192] 0x000003140000-0x000003800000 : "var"
[ 1.201012] 0x000003800000-0x000003c00000 : "hcom0"
[ 1.206957] 0x000003c00000-0x000004000000 : "hcom1"
[ 1.214054] m25p80 spi0.1: non-uniform erase sector maps are not supported
yet.
[ 1.221474] m25p80 spi0.1: s25fl512s (65536 Kbytes)
[ 1.226422] 4 ofpart partitions found on MTD device spi0.1
[ 1.231961] Creating 4 MTD partitions on "spi0.1":
[ 1.236788] 0x0000000000000-0x000000200000 : "misc0"
[ 1.242964] 0x000000200000-0x000000400000 : "misc1"
[ 1.248903] 0x000000400000-0x000002200000 : "app0"
[ 1.254855] 0x000002200000-0x000004000000 : "app1"
[ 1.261384] libphy: Fixed MDIO Bus: probed
[ 1.265980] CAN device driver interface
[ 1.271568] c_can_platform 481cc000.can: c_can_platform device registered
(regs=falcc000, irq=37)
[ 1.350968] davinci_mdio 4a101000.mdio: davinci mdio revision 1.6, bus freq
1000000
[ 1.358676] davinci_mdio 4a101000.mdio: detected phy mask ffffffff
[ 1.367286] libphy: 4a101000.mdio: probed
[ 1.371476] davinci_mdio 4a101000.mdio: phy[0]: device 4a101000.mdio:00,
driver Micrel KSZ9031 Gigabit PHY
[ 1.381243] davinci_mdio 4a101000.mdio: phy[1]: device 4a101000.mdio:01,
driver Micrel KSZ9031 Gigabit PHY
[ 1.392030] cpsw 4a100000.ethernet: Detected MACID = 30:45:11:a6:7d:e2
[ 1.398708] cpsw 4a100000.ethernet: initialized cpsw ale version 1.4
[ 1.405244] cpsw 4a100000.ethernet: ALE Table size 1024
[ 1.410557] cpsw 4a100000.ethernet: cpts: overflow check period 500 (jiffies)
[ 1.418871] cpsw 4a100000.ethernet: cpsw: Detected MACID = 30:45:11:a6:7d:e4
[ 1.428590] omap_rtc 44e3e000.rtc: registered as rtc0
[ 1.433917] i2c /dev entries driver
[ 1.439101] cpuidle: enable-method property 'ti,am3352' found operations
[ 1.451652] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 1.457310] NET: Registered protocol family 17
[ 1.461909] can: controller area network core (rev 20170425 abi 9)
[ 1.468234] NET: Registered protocol family 29
[ 1.472918] can: raw protocol (rev 20170425)
[ 1.477216] can: broadcast manager protocol (rev 20170425 t)
[ 1.482946] can: netlink gateway (rev 20170425) max_hops=1
[ 1.488755] Key type dns_resolver registered
[ 1.493441] omap_voltage_late_init: Voltage driver support not added

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[ 1.507569] omap_i2c 44e0b000.i2c: bus 0 rev0.11 at 400 kHz
[ 1.541280] tps65910 2-002d: No interrupt support, no core IRQ
[ 1.551502] vrtc: supplied by vbat
[ 1.561013] vio: supplied by vbat
[ 1.567554] vdd1: supplied by vbat
[ 1.572546] vdd_mpu: Bringing 1100000uV into 1150000-1150000uV
[ 1.580455] random: fast init done
[ 1.584833] vdd2: supplied by vbat
[ 1.596105] vdig1: supplied by vbat
[ 1.603013] vdig2: supplied by vbat
[ 1.609909] vp11: supplied by vbat
[ 1.616763] vdac: supplied by vbat
[ 1.623561] vaux1: supplied by vbat
[ 1.630451] vaux2: supplied by vbat
[ 1.637391] vaux33: supplied by vbat
[ 1.644424] vmmc: supplied by vbat
[ 1.651267] vbb: supplied by vbat
[ 1.656714] omap_i2c 4819c000.i2c: bus 2 rev0.11 at 100 kHz
[ 1.663306] core: _opp_supported_by_regulators: OPP minuV: 931000 maxuV:
969000, not supported by regulator
[ 1.673231] cpu cpu0: _opp_add: OPP not supported by regulators (300000000)
[ 1.680417] core: _opp_supported_by_regulators: OPP minuV: 1078000 maxuV:
1122000, not supported by regulator
[ 1.690458] cpu cpu0: _opp_add: OPP not supported by regulators (600000000)
[ 1.697884] cpufreq: cpufreq_online: CPU0: Running at unlisted freq: 600000
KHz
[ 1.705851] cpufreq: cpufreq_online: CPU0: Unlisted initial frequency changed
to: 720000 KHz
[ 1.714917] ubi0: attaching mtd11
[ 1.836560] ubi0: scanning is finished
[ 1.866027] ubi0: attached mtd11 (name "rootfs1", size 19 MiB)
[ 1.872272] ubi0: PEB size: 262144 bytes (256 KiB), LEB size: 262016 bytes
[ 1.879250] ubi0: min./max. I/O unit sizes: 1/512, sub-page size 1
[ 1.885495] ubi0: VID header offset: 64 (aligned 64), data offset: 128
[ 1.892167] ubi0: good PEBs: 79, bad PEBs: 0, corrupted PEBs: 0
[ 1.898209] ubi0: user volume: 1, internal volumes: 1, max. volumes count:
128
[ 1.905495] ubi0: max/mean erase counter: 196/146, WL threshold: 4096, image
sequence number: 82945167
[ 1.914858] ubi0: available PEBs: 8, total reserved PEBs: 71, PEBs reserved
for bad PEB handling: 0
[ 1.923989] ubi0: background thread "ubi_bgt0d" started, PID 64
[ 1.929978] ubi1: attaching mtd12
[ 1.975941] ubi1: scanning is finished
[ 2.005300] ubi1: attached mtd12 (name "var", size 6 MiB)
[ 2.010739] ubi1: PEB size: 262144 bytes (256 KiB), LEB size: 262016 bytes
[ 2.018009] ubi1: min./max. I/O unit sizes: 1/512, sub-page size 1
[ 2.024321] ubi1: VID header offset: 64 (aligned 64), data offset: 128
[ 2.030991] ubi1: good PEBs: 27, bad PEBs: 0, corrupted PEBs: 0
[ 2.037031] ubi1: user volume: 1, internal volumes: 1, max. volumes count:
128
[ 2.044309] ubi1: max/mean erase counter: 440/224, WL threshold: 4096, image
sequence number: 1789255023
[ 2.053847] ubi1: available PEBs: 0, total reserved PEBs: 27, PEBs reserved
for bad PEB handling: 0
[ 2.062977] ubi1: background thread "ubi_bgt1d" started, PID 65
[ 2.068966] ubi2: attaching mtd17
[ 2.102871] random: crng init done
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[ 2.255393] ubi2: scanning is finished
[ 2.284844] ubi2: attached mtd17 (name "app0", size 30 MiB)
[ 2.290458] ubi2: PEB size: 262144 bytes (256 KiB), LEB size: 262016 bytes
[ 2.297722] ubi2: min./max. I/O unit sizes: 1/512, sub-page size 1
[ 2.304027] ubi2: VID header offset: 64 (aligned 64), data offset: 128
[ 2.310586] ubi2: good PEBs: 120, bad PEBs: 0, corrupted PEBs: 0
[ 2.316735] ubi2: user volume: 1, internal volumes: 1, max. volumes count:
128
[ 2.324102] ubi2: max/mean erase counter: 124/68, WL threshold: 4096, image
sequence number: 1278427786
[ 2.333577] ubi2: available PEBs: 0, total reserved PEBs: 120, PEBs reserved
for bad PEB handling: 0
[ 2.342776] ubi2: background thread "ubi_bgt2d" started, PID 66
[ 2.348762] ubi3: attaching mtd18
[ 2.549839] ubi3: scanning is finished
[ 2.579366] ubi3: attached mtd18 (name "app1", size 30 MiB)
[ 2.585341] ubi3: PEB size: 262144 bytes (256 KiB), LEB size: 262016 bytes
[ 2.592341] ubi3: min./max. I/O unit sizes: 1/512, sub-page size 1
[ 2.598551] ubi3: VID header offset: 64 (aligned 64), data offset: 128
[ 2.605132] ubi3: good PEBs: 120, bad PEBs: 0, corrupted PEBs: 0
[ 2.611270] ubi3: user volume: 1, internal volumes: 1, max. volumes count:
128
[ 2.618616] ubi3: max/mean erase counter: 566/110, WL threshold: 4096, image
sequence number: 663323901
[ 2.628073] ubi3: available PEBs: 0, total reserved PEBs: 120, PEBs reserved
for bad PEB handling: 0
[ 2.637289] ubi3: background thread "ubi_bgt3d" started, PID 67
[ 15.217856] block ubiblock0_11: created from ubi0:11(rootfs1)
[ 15.223849] omap_rtc 44e3e000.rtc: setting system clock to 2000-01-01
00:00:13 UTC (946684813)
[ 15.233704] ALSA device list:
[ 15.236703]   No soundcards found.
[ 15.246101] VFS: Mounted root (squashfs filesystem) readonly on device 254:0.
[ 15.257447] devtmpfs: mounted
[ 15.263908] Freeing unused kernel memory: 1024K
[ 17.265080] UBIFS (ubi1:1): recovery needed
[ 17.842797] UBIFS (ubi1:1): recovery deferred
[ 17.847338] UBIFS (ubi1:1): UBIFS: mounted UBI device 1, volume 1, name
"var", R/O mode
[ 17.855439] UBIFS (ubi1:1): LEB size: 262016 bytes (255 KiB), min./max. I/O
unit sizes: 8 bytes/512 bytes
[ 17.865073] UBIFS (ubi1:1): FS size: 3668224 bytes (3 MiB, 14 LEBs), journal
size 1834113 bytes (1 MiB, 5 LEBs)
[ 17.875453] UBIFS (ubi1:1): reserved for root: 173259 bytes (169 KiB)
[ 17.882120] UBIFS (ubi1:1): media format: w5/r0 (latest is w5/r0), UUID
B565E161-D408-421C-B69B-A9B8B0F77689, small LPT model
[ 18.288869] UBIFS (ubi2:2): recovery needed
[ 18.626781] UBIFS (ubi2:2): recovery deferred
[ 18.631382] UBIFS (ubi2:2): UBIFS: mounted UBI device 2, volume 2, name
"app0", R/O mode
[ 18.639516] UBIFS (ubi2:2): LEB size: 262016 bytes (255 KiB), min./max. I/O
unit sizes: 8 bytes/512 bytes
[ 18.649162] UBIFS (ubi2:2): FS size: 27773696 bytes (26 MiB, 106 LEBs),
journal size 2096129 bytes (1 MiB, 6 LEBs)
[ 18.659780] UBIFS (ubi2:2): reserved for root: 1311819 bytes (1281 KiB)
[ 18.666631] UBIFS (ubi2:2): media format: w5/r0 (latest is w5/r0), UUID
2A9E5657-6BCE-40E8-80F9-47B62C4C43BD, small LPT model
[ 19.526293] UBIFS (ubi3:18): UBIFS: mounted UBI device 3, volume 18, name
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"app1", R/O mode
[ 19.534731] UBIFS (ubi3:18): LEB size: 262016 bytes (255 KiB), min./max. I/O
unit sizes: 8 bytes/512 bytes
[ 19.544461] UBIFS (ubi3:18): FS size: 27511680 bytes (26 MiB, 105 LEBs),
journal size 4454272 bytes (4 MiB, 17 LEBs)
[ 19.555048] UBIFS (ubi3:18): reserved for root: 0 bytes (0 KiB)
[ 19.561207] UBIFS (ubi3:18): media format: w4/r0 (latest is w5/r0), UUID
7328D703-92C6-445B-8441-03233E274D69, small LPT model
:: Copy-up /hcom/etc.ro to /etc
:: Copy-up /misc/etc to /etc
:: Overlay '/var/.ovly.myextbus:/misc/sbin_:/sbin' on '/sbin' = (0)
:: Overlay '/misc/bin_:/bin' on '/bin' = (0)
[ 21.363028] systemd[1]: System time before build time, advancing clock.
[ 21.625886] systemd[1]: systemd 234 running in system mode. (+PAM -AUDIT
-SELINUX +IMA -APPARMOR +SMACK +SYSVINIT +UTMP -LIBCRYPTSETUP -GCRYPT -GNUTLS
+ACL +XZ -LZ4 -SECCOMP +BLKID -ELFUTILS +KMOD -IDN2 -IDN
default-hierarchy=hybrid)
[ 21.647549] systemd[1]: Detected architecture arm.
```

Welcome to Linux OS for ELV2-NWC2 1.0 (hbs)!

```
[ 21.686184] systemd[1]: Set hostname to <am335x-elv>.
[ 21.692079] systemd[1]: Initializing machine ID from random generator.
[ 22.114238] systemd[1]: /lib/systemd/system/init-asoc.service:5: Unknown
lvalue 'conflicts' in section 'Unit'
[ 22.181593] systemd[1]: Unnecessary job for /dev/mtdblock16 was removed.
[ 22.193695] systemd[1]: Created slice User and Session Slice.
[ OK ] Created slice User and Session Slice.
[ 22.264956] systemd[1]: Reached target Swap.
[ OK ] Reached target Swap.
[ 22.292154] systemd[1]: Listening on Network Service Netlink Socket.
[ OK ] Listening on Network Service Netlink Socket.
[ 22.331528] systemd[1]: Listening on /dev/initctl Compatibility Named Pipe.
[ OK ] Listening on /dev/initctl Compatibility Named Pipe.
[ OK ] Listening on Syslog Socket.
[ OK ] Started Forward Password Requests to Wall Directory Watch.
[ OK ] Started Dispatch Password Requests to Console Directory Watch.
[ OK ] Reached target Remote File Systems.
[ OK ] Listening on udev Control Socket.
[ OK ] Listening on Journal Socket (/dev/log).
[ OK ] Listening on Journal Socket.
[ OK ] Listening on udev Kernel Socket.
[ OK ] Reached target Paths.
[ OK ] Listening on Process Core Dump Socket.
[ OK ] Created slice System Slice.
Mounting Kernel Debug File System...
[ OK ] Created slice system-getty.slice.
Starting File System Check on Root Device...
Starting Journal Service...
[ OK ] Reached target Slices.
Mounting POSIX Message Queue File System...
Starting Load Kernel Modules...
Mounting Temporary Directory (/tmp)...
[ OK ] Created slice system-serial%2dgetty.slice.
[ OK ] Mounted Kernel Debug File System.
[ OK ] Mounted POSIX Message Queue File System.
[ 23.072355] cryptodev: loading out-of-tree module taints kernel.
[ OK ] Mounted Temporary Directory (/tmp).
```



```
[ 23.091668] cryptodev: driver 1.9 loaded.
[ OK ] Started File System Check on Root Device.
[ OK ] Started Load Kernel Modules.
[ OK ] Started Journal Service.
      Mounting Kernel Configuration File System...
      Starting Apply Kernel Variables...
      Starting Remount Root and Kernel File Systems...
[ OK ] Mounted Kernel Configuration File System.
[ OK ] Started Remount Root and Kernel File Systems.
      Starting Rebuild Hardware Database...
      Starting Create System Users...
[ 23.534665] SQUASHFS error: zlib decompression failed, data probably corrupt
[ 23.558811] SQUASHFS error: squashfs_read_data failed to read block
0x110567
Starting Flush Journal to Persistent Storage...
[ 23.567802] SQUASHFS error: Unable to read fragment cache entry [110567]
[ 23.578398] SQUASHFS error: Unable to read page, block 110567, size af64
[ 23.585696] SQUASHFS error: Unable to read fragment cache entry [110567]
[ 23.597705] SQUASHFS error: Unable to read page, block 110567, size af64
[ OK ] Started Apply Kernel Variables.
[ 23.617845] SQUASHFS error: Unable to read fragment cache entry [110567]
[ 23.651093] SQUASHFS error: Unable to read page, block 110567, size af64
[ 23.657878] SQUASHFS error: Unable to read fragment cache entry [110567]
[ 23.684022] SQUASHFS error: Unable to read page, block 110567, size af64
[ 23.701695] SQUASHFS error: Unable to read fragment cache entry [110567]
[ 23.751010] SQUASHFS error: Unable to read page, block 110567, size af64
[ 23.767479] systemd-journald[136]: Received request to flush runtime journal
from PID 1
[FAILED] Failed to start Rebuild Hardware Database.
See 'systemctl status systemd-hwdb-update.service' for details.
[FAILED] Failed to start Create System Users.
See 'systemctl status systemd-sysusers.service' for details.
[ OK ] Started Flush Journal to Persistent Storage.
      Starting Create Static Device Nodes in /dev...
      Starting udev Coldplug all Devices...
[FAILED] Failed to start Create Static Device Nodes in /dev.
See 'systemctl status systemd-tmpfiles-setup-dev.service' for details.
[ OK ] Reached target Local File Systems (Pre).
      Mounting /var/volatile...
[ 24.211566] SQUASHFS error: zlib decompression failed, data probably corrupt
[ 24.218678] SQUASHFS error: squashfs_read_data failed to read block 0x12a459
[ 24.233038] SQUASHFS error: Unable to read data cache entry [12a459]
Starting udev Kernel Device Manager...
[ 24.240176] SQUASHFS error: Unable to read page, block 12a459, size 10a67
[ OK ] Mounted /var/volatile.
      Starting Load/Save Random Seed...
[ OK ] Reached target Local File Systems.
      Starting Create Volatile Files and Directories...
      Starting Rebuild Dynamic Linker Cache...
      Starting Rebuild Journal Catalog...
[ OK ] Started Load/Save Random Seed.
[FAILED] Failed to start Create Volatile Files and Directories.
See 'systemctl status systemd-tmpfiles-setup.service' for details.
[ OK ] Started Rebuild Journal Catalog.
      Starting Update UTMP about System Boot/Shutdown...
[ OK ] Started udev Kernel Device Manager.
[ OK ] Started Update UTMP about System Boot/Shutdown.
[ OK ] Started udev Coldplug all Devices.
```

```

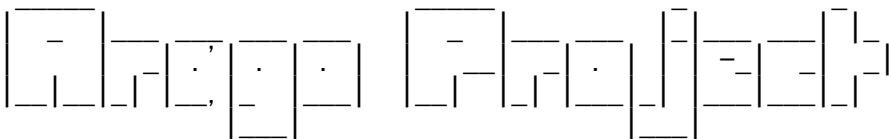
[ OK ] Found device /dev/ttyS5.
[ 29.286332] omap-sham 53100000.sham: hw accel on OMAP rev 4.3
[ 29.359475] remoteproc remoteproc0: wkup_m3 is available
[ 29.375537] wkup_m3_ipc 44e11324.wkup_m3_ipc: could not get rproc handle
[ 29.377483] PM: Cannot get wkup_m3_ipc handle
[ 29.433914] wkup_m3_ipc 44e11324.wkup_m3_ipc: could not get rproc handle
[ 29.434140] PM: Cannot get wkup_m3_ipc handle
[ 29.434400] omap-aes 53500000.aes: OMAP AES hw accel rev: 3.2
[ 29.449271] omap-aes 53500000.aes: will run requests pump with realtime
priority
[ 29.538715] wkup_m3_ipc 44e11324.wkup_m3_ipc: could not get rproc handle
[ 29.538938] PM: Cannot get wkup_m3_ipc handle
[ 30.068451] PM: Cannot get wkup_m3_ipc handle
[ 30.081075] remoteproc remoteproc0: powering up wkup_m3
[ 30.267588] remoteproc remoteproc0: Booting fw image am335x-pm-firmware.elf,
size 224680
[ OK ] Started Rebuild Dynamic Linker Cache.
[ 30.461955] remoteproc remoteproc0: remote processor wkup_m3 is now up
[ 30.461974] wkup_m3_ipc 44e11324.wkup_m3_ipc: CM3 Firmware Version = 0x192
Starting Update is Completed...
[ OK ] Started Update is Completed.
[ OK ] Reached target System Initialization.
[ OK ] Started Daily rotation of log files.
Starting Network Service...
[ OK ] Started Daily Cleanup of Temporary Directories.
[ OK ] Reached target Timers.
[ OK ] Listening on D-Bus System Message Bus Socket.
[ OK ] Reached target Sockets.
[ OK ] Reached target Basic System.
[ OK ] Started setup pseudo serial ttyga0 <-> cnca0 by socat.
[ OK ] Started Periodic Command Scheduler.
Starting setup serial ttyg[c..d]...
Starting Login Service...
Starting Ethernet Bridge Filtering Tables...
Starting System Logging Service...
Starting thermal-zone-init.service...
[ OK ] Started setup pseudo serial ttygb0 <-> cncb0 by socat.
[ OK ] Reached target Containers.
[ OK ] Started D-Bus System Message Bus.
[ OK ] Started Ethernet Bridge Filtering Tables.
[ OK ] Started System Logging Service.
[ 33.749884] bridge: filtering via arp/ip/ip6tables is no longer available by
default. Update your scripts to load br_netfilter if you need this.
[ OK ] Started thermal-zone-init.service.
[ 34.052674] br0: port 1(eth0) entered blocking state
[ OK ] Started Network Service.
[ 34.078418] br0: port 1(eth0) entered disabled state
[ 34.113876] device eth0 entered promiscuous mode
[ 34.254508] omap8250 481a6000.serial: serial485ctrl sets custom speed on
ttyS3. This is deprecated.
[ 34.284170] net eth0: initializing cpsw version 1.12 (0)
[ 34.397719] Micrel KSZ9031 Gigabit PHY 4a101000.mdio:00: attached PHY driver
[Micrel KSZ9031 Gigabit PHY] (mii_bus:phy_addr=4a101000.mdio:00, irq=POLL)
[ 34.657480] pruss 4a300000.pruss: creating PRU cores and other child platform
devices
[ 34.743863] PM: bootloader does not support rtc-only!
[ 34.863069] remoteproc remoteproc1: 4a334000.pru is available
[ 34.868969] pru-rproc 4a334000.pru: PRU rproc node

```

```

/ocp/pruss_soc_bus@4a326004/pruss@0/pru@34000 probed successfully
[ 34.955345] remoteproc remoteproc2: 4a338000.pru is available
[ 34.970025] pru-rproc 4a338000.pru: PRU rproc node
/ocp/pruss_soc_bus@4a326004/pruss@0/pru@38000 probed successfully
[ OK ] Started setup serial ttyg[c..d].
[ OK ] Started Login Service.
[ OK ] Reached target Network.
        Starting Permit User Sessions...
        Starting init PLC module...
        Starting Kernel Logging Service...
[ OK ] Started Permit User Sessions.
[ OK ] Started Getty on tty1.
[ OK ] Started Serial Getty on ttyS5.
[ OK ] Reached target Login Prompts.
        Starting Synchronize System and HW clocks...
[ OK ] Started Synchronize System and HW clocks.
[ OK ] Started Kernel Logging Service.
[ OK ] Started init PLC module.
        Starting Set gpio64 direction to 'in'...
        Starting Init ASoC Modules...
[ OK ] Started Set gpio64 direction to 'in'.
        Starting Prepare enviroment before /hcom/hcomAppStart.sh...
[ 41.416398] S90hcomAppPrepare[653]: [version_list] Surface 1:
[ 41.442148] S90hcomAppPrepare[653]:   version                01.0.0002
[ 41.471710] S90hcomAppPrepare[653]:   opv5xc_hitachi.uboot 0.1.gsdk20200925
[ 41.504215] S90hcomAppPrepare[653]:   zImage.uboot        0.1.gsdk20200925
[ 41.541863] S90hcomAppPrepare[653]:   ramdisk.uboot       0.1.gsdk20200925-1
[ 41.571988] S90hcomAppPrepare[653]:   ramdisk-usr.uboot  01.0.0002
[ 41.585605] net eth1: promiscuity not disabled as the other interface is
still in promiscuity mode
[ 41.600048] net eth1: promiscuity not disabled as the other interface is
still in promiscuity mode
[ 41.611826] S90hcomAppPrepare[653]:   ramdisk-misc.uboot  0.0.20210305
[ 41.641788] S90hcomAppPrepare[653]:   kernel-dtb.uboot   0.1.gsdk20200925
[ 41.677137] S90hcomAppPrepare[653]: [sysctl]
[ 41.691938] S90hcomAppPrepare[653]:   kernel.panic = 300
[ 41.723045] S90hcomAppPrepare[653]:   kernel.printk = 5 4 1 7
[ 41.928887] S90hcomAppPrepare[653]: [/var/adm] usage '23' < 90% ... ok
[ 41.961642] S90hcomAppPrepare[653]: [/var/adm] start to remount rw

```



Arago Project <http://arago-project.org> am335x-elv ttyS5

Linux OS for ELV2-NWC2 1.0 am335x-elv ttyS5

```

am335x-elv login: [ 43.133249] ak7754 0-0018: No cache used with register
defaults set!
[ 43.728655] S90hcomAppPrepare[653]: [/var/adm] succeeded ... ok
[ 43.821390] S90hcomAppPrepare[653]: [/var/ctrl_unit] usage '1' < 90% ... ok
[ 43.824998] S90hcomAppPrepare[653]: [/var/ctrl_unit] start to remount rw
[ 45.623899] S90hcomAppPrepare[653]: [/var/ctrl_unit] succeeded ... ok
[ 46.090584] S90hcomAppPrepare[653]: [/var/ctrl_unit2] usage '78' < 90% ... ok
[ 46.092196] S90hcomAppPrepare[653]: [/var/ctrl_unit2] start to remount rw

```

```

[ 46.113467] S90hcomAppPrepare[653]: [/var/ctrl_unit2] succeeded ... ok
[ 46.210320] S90hcomAppPrepare[653]: Rsync /var/ctrl_unit/conf/ ->
/var/ctrl_unit2/conf
[ 46.419960] S90hcomAppPrepare[653]: Rsync /var/ctrl_unit/data/ ->
/var/ctrl_unit2/data
[ 46.513656] S90hcomAppPrepare[653]: Rsync /var/ctrl_unit/log_data/log/ ->
/var/ctrl_unit2/log_data/log
[ 47.806800] S90hcomAppPrepare[653]: : 2020-06-29T07:29:36
12=PWRHOLD_IT(4)|VMBHI_IT(1) 003=GLOBAL_WARM_SW_RST(1)|GLOBAL_COLD_RST(0) MSG=.
[ 47.808424] S90hcomAppPrepare[653]: : 2020-06-29T07:35:52 00=0
002=GLOBAL_WARM_SW_RST(1) MSG=hcommain.
[ 47.809603] S90hcomAppPrepare[653]: : 2020-06-29T07:23:17
12=PWRHOLD_IT(4)|VMBHI_IT(1) 001=GLOBAL_COLD_RST(0) MSG=.
[ 47.813613] S90hcomAppPrepare[653]: : 2020-06-29T07:23:21
12=PWRHOLD_IT(4)|VMBHI_IT(1) 001=GLOBAL_COLD_RST(0) MSG=.
[ 47.814988] S90hcomAppPrepare[653]: : 2020-06-29T07:23:16
12=PWRHOLD_IT(4)|VMBHI_IT(1) 011=WDT1_RST(4)|GLOBAL_COLD_RST(0) MSG=.
[ 48.433641] S99hcomAppStart[1076]: hcommain starting...
[ 48.481866] S99hcomAppStart[1076]: serial485ctrl: CUSTOM_SPEED=125000
RS485_ENABLED=1 RTS_ON_SEND=0 RTS_AFTER_SEND=1 RX_DURING_TX=1 RTS_BEFORE_SEND=0
RTS_AFTER_SEND=0
[ 50.076118] S99hcomAppStart[1076]: run fwver_bak.sh ... /sbin/fw: line 91:
1143 Illegal instruction (core dumped) /sbin//gfwcmd "$subcmd" $k.${faceid}
"$@"
[ 63.837277] S99hcomAppStart[1076]: /sbin//gfwcmd: line 1311: syntax error
near unexpected token `)'
[ 63.840502] S99hcomAppStart[1076]: /sbin//gfwcmd: line 1311: `+; *)'
[ 65.435243] S99hcomAppStart[1076]: /sbin/fw: line 91: 1350 Segmentation
fault (core dumped) /sbin//gfwcmd "$subcmd" $k.${faceid} "$@"
[ 65.497970] S99hcomAppStart[1076]: done.
[ 66.583928] S99hcomAppStart[1076]: Disable Phone Line.
[ 66.590940] NOHZ: local_softirq_pending 40
[ 66.664275] S99hcomAppStart[1076]: run hcommain ... done.
[ 66.665981] S99hcomAppStart[1076]: hcommain started
[ 66.912402] Unable to handle kernel paging request at virtual address
d0593394
[ 66.919682] pgd = d8360000
[ 66.922399] [d0593394] *pgd=9040041e(bad)
[ 66.926441] Internal error: Oops: 8000000d [#1] PREEMPT ARM
[ 66.932036] Modules linked in: snd_soc_simple_card snd_soc_simple_card_utils
snd_soc_ak7754 pru_rproc pruss_intc pruss bridge stp llc pm33xx wkup_m3_ipc
wkup_m3_rproc remoteproc omap_aes_driver crypto_engine omap_sham omap_crypto
pruss_soc_bus ti_emif_sram sch_fq_codel cryptodev(0)
[ 66.957164] CPU: 0 PID: 1380 Comm: hcommain Tainted: G 0
4.14.67+elv2-nwc2.r166 #2
[ 66.965899] Hardware name: Generic AM33XX (Flattened Device Tree)
[ 66.972017] task: de7baa00 task.stack: d83f6000
[ 66.976567] PC is at 0xd0593394
[ 66.979743] LR is at __spi_pump_messages+0x184/0x7a0
[ 66.984726] pc : [<d0593394>] lr : [<c0592a5c>] psr: 600a0113
[ 66.991018] sp : d83f7970 ip : de7baa00 fp : d83f79b4
[ 66.996262] r10: 00000001 r9 : 60010113 r8 : c0590728
[ 67.001508] r7 : df631000 r6 : d83f797c r5 : df6b1000 r4 : d83f79e0
[ 67.008062] r3 : de7baa00 r2 : 00000000 r1 : 00000000 r0 : df6311a0
[ 67.014618] Flags: nZCv IRQs on FIQs on Mode SVC_32 ISA ARM Segment none
[ 67.021783] Control: 10c5387d Table: 98360019 DAC: 00000051
[ 67.027553] Process hcommain (pid: 1380, stack limit = 0xd83f6208)
[ 67.033758] Stack: (0xd83f7970 to 0xd83f8000)

```

[67.038135] 7960: df6b1000 d83f79b8
00000005 00000001
[67.046352] 7980: d83f7980 d83f7980 c05933dc df6b1000 d83f79e0 d83f7a54
df6b1000 d83f79e0
[67.054568] 79a0: 00000005 00000001 d83f79cc d83f79b8 c05933cc c05930a8
d83f7b0c d83f7a88
[67.062784] 79c0: d83f7afc d83f79d0 c05772d8 c05933a4 c0c8ada8 00000001
00000001 00010101
[67.071000] 79e0: d83f7a4c d83f7a88 df6b1000 00000000 c05905f8 d83f797c
00000061 00000061
[67.079216] 7a00: 00000000 d83f7a04 d83f7a04 00000000 d83f7a10 d83f7a10
df6b16f8 00000000
[67.087432] 7a20: 00000005 00000000 00000000 00000000 00000000 00000000
00000000 00000000
[67.095648] 7a40: 00000000 00000802 016e3600 d83f7a88 d83f79e0 00000000
d817c000 0000005c
[67.103863] 7a60: 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000
[67.112079] 7a80: 00000810 016e3600 d83f79e0 d83f7a4c 00000000 00000000
00000000 00000000
[67.120294] 7aa0: 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000
[67.128510] 7ac0: 00000000 00000000 00000000 c05776d4 d83f7afc 01da7de0
00000000 0000005c
[67.136727] 7ae0: df6b1418 d817c000 d83f7be4 d817c000 d83f7b3c d83f7b00
c05779c0 c0576fdc
[67.144943] 7b00: 0000005c d817c000 c09c4cb0 00000000 c022757c df6d1400
00000000 00000000
[67.153159] 7b20: 0000005c df6d1400 00000066 d817c000 d83f7b6c d83f7b40
c0571538 c057790c
[67.161375] 7b40: 0000005c d83f7be4 d817c000 00000000 00000000 00000000
00458220 00000000
[67.169591] 7b60: d83f7bb4 d83f7b70 c056d980 c05714ec 0000005c d83f7be4
d817c000 dffa3adc
[67.177807] 7b80: 01e00000 00000000 00458220 00000000 00000002 00000000
df0de000 0000005c
[67.186023] 7ba0: 00000004 00027de0 d83f7c14 d83f7bb8 c0584608 c056d8fc
0000005c d83f7be4
[67.194239] 7bc0: d817c000 00000000 0000003b c09c6f30 c09c6f64 c09811dc
019a7de0 00000000
[67.202455] 7be0: c028db68 00000000 5ef996f8 00000000 df0de000 df785800
00000066 0000003b
[67.210671] 7c00: 00000002 00000001 d83f7c54 d83f7c18 c05822f8 c0584544
0000005c 1f972880
[67.218887] 7c20: 5ef996f8 d817c000 dfebdda8 0000005c 00000000 00027d60
df0de000 00000002
[67.227104] 7c40: df785800 00000001 d83f7c8c d83f7c58 c0580d00 c0582258
00027d60 0000005c
[67.235320] 7c60: 00000000 c023c754 de1e9000 de1e9000 0000005c 0000003b
00027d60 d817c000
[67.243536] 7c80: d83f7cbc d83f7c90 c03ed344 c0580c84 0000005c 00000000
00000000 de1e9000
[67.251752] 7ca0: 00027d60 de1e9000 0000003b 0000005c d83f7cf4 d83f7cc0
c03eef00 c03ed314
[67.259968] 7cc0: 0000005c 00000000 00000015 00027d60 de233d00 de1e9000
ffffe000 00000001
[67.268184] 7ce0: d817c000 0000003b d83f7d34 d83f7cf8 c03ef1e8 c03eee68
0000003b 00027d60

[67.276400] 7d00: d83f7d68 0000005c d83f7dd0 d83f7d70 00000001 d817c000 de1e9000 00000000
[67.284616] 7d20: d817c000 00000000 d83f7d5c d83f7d38 c040c3ac c03ef104 0000003b 00027d60
[67.292833] 7d40: de1e9000 00000000 d83f7dd0 de1e90a8 d83f7db4 d83f7d60 c03f25fc c040c360
[67.301049] 7d60: 00000081 d89fa5b4 00000001 de284500 00001655 20000033 00000000 0000003b
[67.309265] 7d80: 00027d60 0000005c d83f7dcc dfe9d990 00000089 00088b8c d89fa4e0 00000033
[67.317481] 7da0: 00001655 d817c000 d83f7e04 d83f7db8 c03e3f24 c03f2450 00000000 d83f7dc8
[67.325698] 7dc0: de1e9000 d7044000 c0203774 c076afdc 00001655 20000033 d89f0130 dfe9d990
[67.333914] 7de0: de1e9000 dfe9d990 00000033 00000032 d89fa4e0 00000033 d83f7e6c d83f7e08
[67.342130] 7e00: c03e5410 c03e3db4 00000000 00000000 c0c870d4 df025600 dfe9d990 c0219e84
[67.350346] 7e20: d83f7e3c d83f7e30 c0219e84 c021898c d83f7e6c d83f7e40 c0203b2c c0219e78
[67.358562] 7e40: d83f7e4c d83f7f08 d89fa5b4 dfe9d990 d83f7ef0 de4e0540 00000055 00000033
[67.366778] 7e60: d83f7edc d83f7e70 c02079bc c03e53d4 00000055 d83f6000 d83f7eb4 014000c0
[67.374995] 7e80: 00080001 00000088 00000000 00000032 de4e0598 00033000 ffffe000 00000000
[67.383211] 7ea0: d89fa4e0 c0274cf0 00000000 d83f7ef0 00000000 00000000 de4e0540 d83f7f78
[67.391427] 7ec0: d83f7f78 00000000 00088000 00000000 d83f7f44 d83f7ee0 c026f760 c0207468
[67.399643] 7ee0: 00088000 00000000 b6b5b000 00088000 00000000 00033000 00055000 d83f7ee8
[67.407859] 7f00: 00000001 00000000 de4e0540 00000000 00000000 00000000 00000000 00000000
[67.416075] 7f20: 00000010 00000000 00088000 de4e0540 b6b5b000 d83f7f78 d83f7f74 d83f7f48
[67.424291] 7f40: c026f844 c026f68c 00001655 c0291ea0 d83f7f74 de4e0540 de4e0540 00000000
[67.432508] 7f60: 00000000 b6b5b000 d83f7fa4 d83f7f78 c026fd24 c026f7b8 00000000 00000000
[67.440724] 7f80: 0009d4a8 b6da7bec 00088b8c 00000003 c0108364 d83f6000 00000000 d83f7fa8
[67.448940] 7fa0: c0108180 c026fce4 0009d4a8 b6da7bec 00000004 b6b5b000 00088000 00000000
[67.457156] 7fc0: 0009d4a8 b6da7bec 00088b8c 00000003 00088b8c 000005e8 b6da77a8 00000000
[67.465372] 7fe0: 00000000 bea1dc2c b6d0cd05 b6d484b8 400b0030 00000004 00000000 00000000
[67.473580] Backtrace:
[67.476049] [[67.483132] r10:00000001 r9:00000005 r8:d83f79e0 r7:df6b1000 r6:d83f7a54 r5:d83f79e0
[67.490994] r4:df6b1000
[67.493546] [[67.500884] r5:d83f7a88 r4:d83f7b0c
[67.504477] [

[67.512083] r10:d817c000 r9:d83f7be4 r8:d817c000 r7:df6b1418 r6:0000005c
r5:00000000
[67.519944] r4:01da7de0
[67.522490] [<c0577900>] (spi_nor_read) from [<c0571538>]
(part_read+0x58/0x90)
[67.529832] r10:d817c000 r9:00000066 r8:df6d1400 r7:0000005c r6:00000000
r5:00000000
[67.537694] r4:df6d1400
[67.540247] [<c05714e0>] (part_read) from [<c056d980>] (mtd_read+0x90/0xcc)
[67.547240] r7:00000000 r6:00458220 r5:00000000 r4:00000000
[67.552932] [<c056d8f0>] (mtd_read) from [<c0584608>]
(ubi_io_read+0xd0/0x330)
[67.560187] r8:00027de0 r7:00000004 r6:0000005c r5:df0de000 r4:00000000
[67.566920] [<c0584538>] (ubi_io_read) from [<c05822f8>]
(ubi_eba_read_leb+0xac/0x448)
[67.574874] r10:00000001 r9:00000002 r8:0000003b r7:00000066 r6:df785800
r5:df0de000
[67.582735] r4:00000000
[67.585282] [<c058224c>] (ubi_eba_read_leb) from [<c0580d00>]
(ubi_leb_read+0x88/0xc8)
[67.593235] r10:00000001 r9:df785800 r8:00000002 r7:df0de000 r6:00027d60
r5:00000000
[67.601097] r4:0000005c
[67.603657] [<c0580c78>] (ubi_leb_read) from [<c03ed344>]
(ubifs_leb_read+0x3c/0x88)
[67.611436] r9:d817c000 r8:00027d60 r7:0000003b r6:0000005c r5:de1e9000
r4:de1e9000
[67.619218] [<c03ed308>] (ubifs_leb_read) from [<c03eef00>]
(ubifs_read_node+0xa4/0x29c)
[67.627345] r8:0000005c r7:0000003b r6:de1e9000 r5:00027d60 r4:de1e9000
[67.634076] [<c03eee5c>] (ubifs_read_node) from [<c03ef1e8>]
(ubifs_read_node_wbuf+0xf0/0x2f4)
[67.642728] r10:0000003b r9:d817c000 r8:00000001 r7:ffffe000 r6:de1e9000
r5:de233d00
[67.650589] r4:00027d60
[67.653148] [<c03ef0f8>] (ubifs_read_node_wbuf) from [<c040c3ac>]
(ubifs_tnc_read_node+0x58/0xc4)
[67.662061] r10:00000000 r9:d817c000 r8:00000000 r7:de1e9000 r6:d817c000
r5:00000001
[67.669922] r4:d83f7d70
[67.672470] [<c040c354>] (ubifs_tnc_read_node) from [<c03f25fc>]
(ubifs_tnc_locate+0x1b8/0x1c8)
[67.681206] r7:de1e90a8 r6:d83f7dd0 r5:00000000 r4:de1e9000
[67.686893] [<c03f2444>] (ubifs_tnc_locate) from [<c03e3f24>]
(do_readpage+0x17c/0x468)
[67.694934] r10:d817c000 r9:00001655 r8:00000033 r7:d89fa4e0 r6:00088b8c
r5:00000089
[67.702795] r4:dfe9d990
[67.705342] [<c03e3da8>] (do_readpage) from [<c03e5410>]
(ubifs_readpage+0x48/0x518)
[67.713122] r10:00000033 r9:d89fa4e0 r8:00000032 r7:00000033 r6:dfe9d990
r5:de1e9000
[67.720983] r4:dfe9d990
[67.723534] [<c03e53c8>] (ubifs_readpage) from [<c02079bc>]
(generic_file_read_iter+0x560/0xa10)
[67.732361] r10:00000033 r9:00000055 r8:de4e0540 r7:d83f7ef0 r6:dfe9d990
r5:d89fa5b4
[67.740222] r4:d83f7f08

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[ 67.742771] [<c020745c>] (generic_file_read_iter) from [<c026f760>]
(__vfs_read+0xe0/0x12c)
[ 67.751161] r10:00000000 r9:00088000 r8:00000000 r7:d83f7f78 r6:d83f7f78
r5:de4e0540
[ 67.759022] r4:00000000
[ 67.761568] [<c026f680>] (__vfs_read) from [<c026f844>] (vfs_read+0x98/0x11c)
[ 67.768735] r7:d83f7f78 r6:b6b5b000 r5:de4e0540 r4:00088000
[ 67.774419] [<c026f7ac>] (vfs_read) from [<c026fd24>] (SyS_read+0x4c/0xa0)
[ 67.781326] r8:b6b5b000 r7:00000000 r6:00000000 r5:de4e0540 r4:de4e0540
[ 67.788067] [<c026fcd8>] (SyS_read) from [<c0108180>]
(ret_fast_syscall+0x0/0x54)
[ 67.795585] r9:d83f6000 r8:c0108364 r7:00000003 r6:00088b8c r5:b6da7bec
r4:0009d4a8
[ 67.803367] Code: 2fbbfc5c 7affeebf f7b7fbfe a54ff9d9 (f6aef9ff)
[ 67.809489] ---[ end trace c432c733e13be3b4 ]---
[ 67.990690] ubi3: detaching mtd18
[ 67.998129] ubi3: mtd18 is detached
[ 212.403444] cpsw 4a100000.ethernet eth0: Link is Up - 100Mbps/Full - flow
control rx/tx
[ 212.411642] br0: port 1(eth0) entered blocking state
[ 212.416658] br0: port 1(eth0) entered forwarding state
[ 212.653470] NOHZ: local_softirq_pending 08
[ 212.913665] NOHZ: local_softirq_pending 08
[ 212.926511] NOHZ: local_softirq_pending 08
[ 212.934390] NOHZ: local_softirq_pending 08
[ 212.945602] NOHZ: local_softirq_pending 08
[ 213.063879] NOHZ: local_softirq_pending 08
[ 213.153932] NOHZ: local_softirq_pending 08
[ 213.173868] NOHZ: local_softirq_pending 08
[ 213.183740] NOHZ: local_softirq_pending 08
[ 259.801212] Internal error: Oops - undefined instruction: 0 [#2] PREEMPT ARM
[ 259.808323] Modules linked in: snd_soc_simple_card snd_soc_simple_card_utils
snd_soc_ak7754 pru_rproc pruss_intc pruss bridge stp llc pm33xx wkup_m3_ipc
wkup_m3_rproc remoteproc omap_aes_driver crypto_engine omap_sham omap_crypto
pruss_soc_bus ti_emif_sram sch_fq_codel cryptodev(0)
[ 259.833450] CPU: 0 PID: 0 Comm: swapper Tainted: G D 0
4.14.67+elv2-nwc2.r166 #2
[ 259.841835] Hardware name: Generic AM33XX (Flattened Device Tree)
[ 259.847955] task: c0c05d78 task.stack: c0c00000
[ 259.852520] PC is at cpu_ca8_do_suspend+0x28/0x30
[ 259.857247] LR is at __cpu_suspend_save+0x68/0xb8
[ 259.861970] pc : [<c0118498>] lr : [<c010e748>] psr: a0000093
[ 259.868261] sp : c0c01dc8 ip : c09e9d2c fp : 00000000
[ 259.873506] r10: 00f00000 r9 : 00000042 r8 : 10c5387d
[ 259.878752] r7 : 80004019 r6 : 00000051 r5 : 00000000 r4 : 00000000
[ 259.885305] r3 : c0118470 r2 : c0c01e44 r1 : 00000030 r0 : c0c01e28
[ 259.891862] Flags: NzCv IRQs off FIQs on Mode SVC_32 ISA ARM Segment
none
[ 259.899113] Control: 10c5387d Table: 9e2b8019 DAC: 00000051
[ 259.904883] Process swapper (pid: 0, stack limit = 0xc0c00208)
[ 259.910740] Stack: (0xc0c01dc8 to 0xc0c02000)
[ 259.915118] 1dc0: df0c8b40 c0c01e14 c09e9d5c 00000030
00000001 df6f8400
[ 259.923335] 1de0: c09e9d2c c0c01e08 c010e748 00000030 c0c01e44 0000003c
df70c400 c0c01e7c
[ 259.931550] 1e00: c0c01e0c c010e4dc c010e6ec 00000009 e0840280 9f114000
c0c01e44 801184a0
[ 259.939766] 1e20: 00000000 00000000 c0c01e54 c0c01e38 c05fcee0 c05fcd44

```



```
de763290 00000000
[ 259.947983] 1e40: df1aec10 00000009 df003380 0000003c df70c400 00000001
df6f8400 7d5af988
[ 259.956198] 1e60: c0c01e7c c010e698 00000009 e0840280 c0c01e94 c0c01e80
c011fb4c c010e658
[ 259.964414] 1e80: bf073280 00000009 c0c01eac c0c01e98 bf071740 c011fb0c
00000001 00000001
[ 259.972630] 1ea0: c0c01ebc c0c01eb0 c011f7fc bf0716e8 c0c01ecc c0c01ec0
c010df48 c011f7c8
[ 259.980847] 1ec0: c0c01ee4 c0c01ed0 c05ef52c c010df30 df70c460 00000001
c0c01f2c c0c01ee8
[ 259.989063] 1ee0: c05ed198 c05ef4e8 df70c400 0000115c c0c78b18 00000000
000099dd 00000000
[ 259.997279] 1f00: eb2ce61c df6f8400 fffffe00 df70c400 c0c030c8 c0c78718
c0c030d4 c0c89c3a
[ 260.005495] 1f20: c0c01f3c c0c01f30 c05ed520 c05ed080 c0c01f4c c0c01f40
c0164404 c05ed508
[ 260.013711] 1f40: c0c01f84 c0c01f50 c01646b0 c01643e0 c0b4ea28 c096dcb0
c0c01f7c c0c13208
[ 260.021926] 1f60: 00000002 ffffffff c0c03040 c0c90fc0 c0b4ea28 dffffb00
c0c01f94 c0c01f88
[ 260.030142] 1f80: c01649cc c016454c c0c01fac c0c01f98 c0776e9c c01649bc
c0c9100c c0c90fc0
[ 260.038358] 1fa0: c0c01ff4 c0c01fb0 c0b00e00 c0776df0 ffffffff ffffffff
00000000 c0b00758
[ 260.046574] 1fc0: 00000000 c0b4ea28 00000000 c0c91154 c0c03058 c0b4ea24
c0c072c4 80004059
[ 260.054789] 1fe0: 413fc082 00000000 00000000 c0c01ff8 80008078 c0b00a50
00000000 00000000
[ 260.062996] Backtrace: no frame pointer
[ 260.066858] Code: ee12bf50 ee118f10 ee119f30 ee11af50 (f8800fe0)
[ 260.072980] ---[ end trace c432c733e13be3b5 ]---
[ 260.077619] Kernel panic - not syncing: Attempted to kill the idle task!
[ 260.084354] Rebooting in 300 seconds..
```

U-Boot SPL 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:21)
Trying to boot from SPI

U-Boot 2018.01-00443-gcdb1cc0a9e-dirty (Sep 25 2020 - 07:44:35 +0000)

```
CPU : AM335X-GP rev 2.1
I2C: ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Net: cpsw
Hit any key to stop autoboot: 2 1 0
u-boot state: RESCUE
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 1
Booting from U-boot: 0x0c0000
switch: Loading u-boot from SPI, 0x000c0000
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
```

U-Boot 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:21 +0000)

CPU : AM335X-GP rev 2.1

I2C: ready

DRAM: 512 MiB

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

Net: cpsw

Hit any key to stop autoboot: 2 1 0

u-boot state: GENERIC

Booting kernel1 with rootfs1...

kfail: 7

Saving Environment to SPI Flash...

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

Erasing SPI flash...Writing to SPI flash...done

Valid environment: 2

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

device 0 offset 0x980000, size 0x40000

SF: 262144 bytes @ 0x980000 Read: OK

device 0 offset 0x5c0000, size 0x380000

SF: 3670016 bytes @ 0x5c0000 Read: OK

Flattened Device Tree blob at 88000000

Booting using the fdt blob at 0x88000000

Loading Device Tree to 9df7d000, end 9df895b2 ... OK

Starting kernel ...

U-Boot SPL 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:21)

Trying to boot from SPI

U-Boot 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:35 +0000)

CPU : AM335X-GP rev 2.1

I2C: ready

DRAM: 512 MiB

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

Net: cpsw

Hit any key to stop autoboot: 2 1 0

u-boot state: RESCUE

Saving Environment to SPI Flash...

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

Erasing SPI flash...Writing to SPI flash...done

Valid environment: 1

Booting from U-boot: 0x0c0000

switch: Loading u-boot from SPI, 0x000c0000

SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total 64 MiB

U-Boot 2018.01-00443-gcddb1cc0a9e-dirty (Sep 25 2020 - 07:44:21 +0000)

```
CPU : AM335X-GP rev 2.1
I2C:  ready
DRAM: 512 MiB
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Net:  cpsw
Hit any key to stop autoboot:  2  1  0
u-boot state: GENERIC
Booting kernel1 with rootfs1...
kfail: 6
Saving Environment to SPI Flash...
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
Erasing SPI flash...Writing to SPI flash...done
Valid environment: 2
SF: Detected s25fl512s_256k with page size 256 Bytes, erase size 256 KiB, total
64 MiB
device 0 offset 0x980000, size 0x40000
SF: 262144 bytes @ 0x980000 Read: OK
device 0 offset 0x5c0000, size 0x380000
SF: 3670016 bytes @ 0x5c0000 Read: OK
## Flattened Device Tree blob at 88000000
   Booting using the fdt blob at 0x88000000
   Loading Device Tree to 9df7d000, end 9df895b2 ... OK

Starting kernel ...
```