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B НЃю[?25l[EC] Pausing for 5 secondsЧ±ЅЭAСVС•ЌСU\*¤Ѕ№НЅ±•с ю[?25l[EC] Pausing for 5 seconds to allow PC to detect USB console / [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console - [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console \ [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console | [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console / [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console - [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console \ [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console | [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console / [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console - [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console \ [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console | [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console / [?25l[EC] Pausing for 5 seconds to allow PC to detect USB console - 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[EC] Wiren Board Embedded Controller

[EC] Firmware version: 1.2.1

[EC] Git info: 9758a72\_HEAD

[EC] Power on reason: Power supply on

[EC] RTC time: 2024-10-02 05:15:53

[EC] Board temperature: 25.9ВєC

[EC] Vin: 0.0V, USB Net: 0.1V, USB Console: 5.0V

[EC] Turning on the main CPU; all future debug messages will originate from the CPU.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

................

Entering firmware update mode.

Checking if ubootenv part is present

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

Can't find subimage 'ubootenv'

Extracting kernel

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

11523560 bytes read in 333 ms (33 MiB/s)

Description: Update kernel

Type: Kernel Image

Compression: uncompressed

Data Start: 0x42000300

Data Size: 11514600 Bytes = 11 MiB

Architecture: ARM

OS: Linux

Load Address: unavailable

Entry Point: unavailable

Hash algo: sha1

Hash value: 8485f8a5458f57a80cab6a345c1ee67f7e40ae25

## Verifying ... sha1+

Loading part 0 ... OK

Extracting DTB

## Loading FIT header to 0x43000000 ...

## Loading FIT strings to 0x43000028 ...

## Loading FIT struct to 0x43000100 ...

66325 bytes read in 24 ms (2.6 MiB/s)

Description: Update DTB

Type: Flat Device Tree

Compression: uncompressed

Data Start: 0x43000440

Data Size: 57045 Bytes = 55.7 KiB

Architecture: ARM

Hash algo: sha1

Hash value: 55ec41560f668ab075c7524503142abcbc96bed8

## Verifying ... sha1+

Loading part 0 ... OK

Kernel image @ 0x42000000 [ 0x000000 - 0xafb2e8 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fef000, end 49fffed4 ... OK

## DT property 'device-serial' not found! If the device was produced before 2023-08-07, please ignore it

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #2 SMP Wed Dec 27 07:38:59 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.x (A40i), factory bootlet

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 15 pages/cpu s31180 r8192 d22068 u61440

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 bootmode=update\_auto

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1003260K/1048576K available (7168K kernel code, 655K rwdata, 1540K rodata, 8192K init, 396K bss, 28932K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x32c/0x4f8 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000009] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000026] Switching to timer-based delay loop, resolution 41ns

[ 0.000390] Console: colour dummy device 80x30

[ 0.000456] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.000482] pid\_max: default: 32768 minimum: 301

[ 0.000669] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.000690] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.002796] CPU: Testing write buffer coherency: ok

[ 0.003374] /cpus/cpu@0 missing clock-frequency property

[ 0.003429] /cpus/cpu@1 missing clock-frequency property

[ 0.003476] /cpus/cpu@2 missing clock-frequency property

[ 0.003524] /cpus/cpu@3 missing clock-frequency property

[ 0.003547] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.004422] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.004607] rcu: Hierarchical SRCU implementation.

[ 0.005422] smp: Bringing up secondary CPUs ...

[ 0.016319] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.027316] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.038221] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.038346] smp: Brought up 1 node, 4 CPUs

[ 0.038379] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.038389] CPU: All CPU(s) started in HYP mode.

[ 0.038397] CPU: Virtualization extensions available.

[ 0.039157] devtmpfs: initialized

[ 0.059619] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.059934] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.059965] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.060979] pinctrl core: initialized pinctrl subsystem

[ 0.063652] NET: Registered protocol family 16

[ 0.065141] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.066412] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.067690] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.067751] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.125648] SCSI subsystem initialized

[ 0.125935] usbcore: registered new interface driver usbfs

[ 0.125999] usbcore: registered new interface driver hub

[ 0.126061] usbcore: registered new device driver usb

[ 0.129463] clocksource: Switched to clocksource arch\_sys\_counter

[ 0.129969] FS-Cache: Loaded

[ 0.130319] CacheFiles: Loaded

[ 0.144462] NET: Registered protocol family 2

[ 0.145672] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 0.145753] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 0.145892] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 0.146103] TCP: Hash tables configured (established 8192 bind 8192)

[ 0.146282] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.146365] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.146649] NET: Registered protocol family 1

[ 0.147610] RPC: Registered named UNIX socket transport module.

[ 0.147630] RPC: Registered udp transport module.

[ 0.147640] RPC: Registered tcp transport module.

[ 0.147649] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 0.878925] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 0.881502] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 0.895773] NFS: Registering the id\_resolver key type

[ 0.895831] Key type id\_resolver registered

[ 0.895843] Key type id\_legacy registered

[ 0.895896] ntfs: driver 2.1.32 [Flags: R/W].

[ 0.896673] bounce: pool size: 64 pages

[ 0.896730] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 250)

[ 0.896743] io scheduler mq-deadline registered

[ 0.896753] io scheduler kyber registered

[ 0.898634] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.031027] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.051960] loop: module loaded

[ 1.064357] libphy: Fixed MDIO Bus: probed

[ 1.064915] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.065626] libphy: sun4i\_mii\_bus: probed

[ 1.069862] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.069887] ehci-platform: EHCI generic platform driver

[ 1.070598] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.070633] ohci-platform: OHCI generic platform driver

[ 1.071285] usbcore: registered new interface driver cdc\_acm

[ 1.071296] cdc\_acm: USB Abstract Control Model driver for USB modems and ISDN adapters

[ 1.071358] usbcore: registered new interface driver usb-storage

[ 1.075321] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.075343] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.075679] i2c /dev entries driver

[ 1.080871] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.083947] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.084798] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.085193] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.085714] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.085918] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.086098] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.086245] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.086423] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.086580] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.086729] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.086896] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.090290] iio-rescale a1-volt: using raw+scale source channel

[ 1.090759] iio-rescale a2-volt: using raw+scale source channel

[ 1.091151] iio-rescale a3-volt: using raw+scale source channel

[ 1.091492] iio-rescale vin-volt: using raw+scale source channel

[ 1.094362] NET: Registered protocol family 10

[ 1.096135] Segment Routing with IPv6

[ 1.096290] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.097229] NET: Registered protocol family 17

[ 1.097350] Key type dns\_resolver registered

[ 1.097425] Registering SWP/SWPB emulation handler

[ 1.097532] registered taskstats version 1

[ 1.123852] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.129887] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.130448] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.133129] printk: console [ttyS0] disabled

[ 1.133400] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 1.985348] printk: console [ttyS0] enabled

[ 1.991460] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 1.998258] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 2.004913] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 2.012305] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.023062] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.032482] wbec-adc: Failed to locate of\_node [id: -2]

[ 2.037888] wbec-gpio: Failed to locate of\_node [id: -2]

[ 2.043363] wbec-gpio wbec-gpio.2.auto: No ngpios property in device tree

[ 2.050324] wbec-gpio: probe of wbec-gpio.2.auto failed with error -22

[ 2.063894] wbec-watchdog wbec-watchdog.3.auto: DMA mask not set

[ 2.070431] wbec-rtc: Failed to locate of\_node [id: -2]

[ 2.082868] wbec-pwrkey wbec-pwrkey.5.auto: DMA mask not set

[ 2.089066] input: wbec pwrkey as /devices/platform/soc/1c17000.spi/spi\_master/spi0/spi0.0/wbec-pwrkey.5.auto/input/input0

[ 2.107600] wbec-power wbec-power.6.auto: DMA mask not set

[ 2.113657] wbec spi0.0: WBEC device added

[ 2.118341] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.127767] libphy: sun4i\_mii\_bus: probed

[ 2.133402] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.140252] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.146866] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.156703] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.163520] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.170268] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.177772] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.188310] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.196461] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.203310] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.209790] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.217101] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.227454] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.249176] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 2.264418] input: axp20x-pek as /devices/platform/soc/1c2ac00.i2c/i2c-0/0-0034/axp221-pek/input/input1

[ 2.285644] vcc-3v3: supplied by regulator-dummy

[ 2.291621] vdd-cpu: supplied by regulator-dummy

[ 2.297280] vdd-sys: supplied by regulator-dummy

[ 2.302962] dcdc4: supplied by regulator-dummy

[ 2.307954] random: fast init done

[ 2.312436] vcc-dram: supplied by regulator-dummy

[ 2.317720] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 2.324705] vcc-gmac-phy: supplied by vcc-3v3

[ 2.330435] dc5ldo: supplied by vcc-dram

[ 2.335065] tv: Bringing 700000uV into 3300000-3300000uV

[ 2.341136] tv: supplied by regulator-dummy

[ 2.346031] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 2.352437] aldo2: supplied by regulator-dummy

[ 2.358249] avcc-pll: supplied by regulator-dummy

[ 2.363901] eldo1: supplied by regulator-dummy

[ 2.369225] eldo2: supplied by regulator-dummy

[ 2.374340] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 2.381086] vcc-pe: supplied by regulator-dummy

[ 2.386201] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 2.393050] vcc-sd-alt: supplied by regulator-dummy

[ 2.398618] dldo2: supplied by regulator-dummy

[ 2.403855] dldo3: supplied by regulator-dummy

[ 2.409021] dldo4: supplied by regulator-dummy

[ 2.413861] rtc\_ldo: supplied by regulator-dummy

[ 2.419235] ldo\_io0: supplied by regulator-dummy

[ 2.424657] ldo\_io1: supplied by regulator-dummy

[ 2.436005] axp20x-adc axp22x-adc: DMA mask not set

[ 2.449679] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 2.460582] axp20x-i2c 0-0034: AXP20X driver loaded

[ 4.559477] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 4.566022] rtc-pcf85063 2-0051: RTC chip is not present

[ 4.571472] rtc-pcf85063: probe of 2-0051 failed with error -110

[ 4.585008] lm75 2-0048: supply vs not found, using dummy regulator

[ 6.639479] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 6.646296] lm75: probe of 2-0048 failed with error -110

[ 6.674123] sun4i-pinctrl 1c20800.pinctrl: pin PB16 already requested by 1c17000.spi; cannot claim for i2c\_eeprom1

[ 6.684546] sun4i-pinctrl 1c20800.pinctrl: pin-48 (i2c\_eeprom1) status -22

[ 6.691436] sun4i-pinctrl 1c20800.pinctrl: could not request pin 48 (PB16) from group PB16 on device 1c20800.pinctrl

[ 6.698945] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 6.702045] i2c-gpio i2c\_eeprom1: Error applying setting, reverse things back

[ 6.718068] i2c-gpio: probe of i2c\_eeprom1 failed with error -22

[ 6.724354] sun4i-pinctrl 1c20800.pinctrl: pin PB14 already requested by 1c17000.spi; cannot claim for i2c\_eeprom2

[ 6.734721] sun4i-pinctrl 1c20800.pinctrl: pin-46 (i2c\_eeprom2) status -22

[ 6.741606] sun4i-pinctrl 1c20800.pinctrl: could not request pin 46 (PB14) from group PB14 on device 1c20800.pinctrl

[ 6.752217] i2c-gpio i2c\_eeprom2: Error applying setting, reverse things back

[ 6.759358] i2c-gpio: probe of i2c\_eeprom2 failed with error -22

[ 6.765643] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 6.773014] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 6.783200] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 6.791129] libphy: sun4i\_mii\_bus: probed

[ 6.890969] mmc0: new DDR MMC card at address 0001

[ 6.896463] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 6.901378] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 6.907610] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 6.913878] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (249:0)

[ 6.923536] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 6.933700] sun4i-emac 1c0b000.ethernet: using random MAC address 5a:8d:02:23:43:54

[ 6.943417] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 67 MAC: 5a:8d:02:23:43:54

[ 6.952264] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 6.958619] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 6.965448] ehci-platform 1c14000.usb: EHCI Host Controller

[ 6.971061] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 6.979077] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 7.009461] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 7.016277] hub 1-0:1.0: USB hub found

[ 7.020118] hub 1-0:1.0: 1 port detected

[ 7.024844] ehci-platform 1c19000.usb: EHCI Host Controller

[ 7.030463] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 7.038378] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 7.069440] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 7.076170] hub 2-0:1.0: USB hub found

[ 7.079968] hub 2-0:1.0: 1 port detected

[ 7.084647] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 7.090252] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 7.098200] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 7.130140] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 7.136843] hub 3-0:1.0: USB hub found

[ 7.140643] hub 3-0:1.0: 1 port detected

[ 7.239583] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 7.246214] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 7.254129] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 7.334123] hub 4-0:1.0: USB hub found

[ 7.337914] hub 4-0:1.0: 1 port detected

[ 7.342650] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 7.349277] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 7.357181] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 7.434048] hub 5-0:1.0: USB hub found

[ 7.437829] hub 5-0:1.0: 1 port detected

[ 7.442545] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 7.449176] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 7.456985] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 7.464174] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 7.509443] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 7.544058] hub 6-0:1.0: USB hub found

[ 7.547839] hub 6-0:1.0: 1 port detected

[ 7.552779] usb\_phy\_generic usb\_phy\_generic.7.auto: supply vcc not found, using dummy regulator

[ 7.563215] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.569621] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.576636] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.583025] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.589327] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 7.589407] of\_cfs\_init

[ 7.598999] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.600795] of\_cfs\_init: OK

[ 7.607116] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.625197] Freeing unused kernel memory: 8192K

[ 7.649613] Run /init as init process

mount: mounting none on /dev/pts failed: No such file or directo[ 7.683344] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

ry

[ 7.690435] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.731582] usb-storage 1-1:1.0: USB Mass Storage device detected

[ 7.738448] scsi host0: usb-storage 1-1:1.0

[ 7.744009] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.750429] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Run busybox watchdog for /dev/watchdog

Run busybox watchdog for /dev/watchdog0

Run busybox watchdog [ 7.969328] wbec-watchdog wbec-watchdog.3.auto: stop watchdog, but actually EC watchdog is always running, timeout set to 300 seconds

for /dev/watchdog1

Run busybox watchdog for /dev/watchdog2

watchdog: WDIOC\_SETTIMEOUT: Invalid argument

Boot mode: update\_auto

watchdog: can't open '/dev/watchdog': Device or resource busy

Board is WB7

[ 8.800947] scsi 0:0:0:0: Direct-Access SanDisk Ultra USB 3.0 1.00 PQ: 0 ANSI: 6

[ 8.810773] sd 0:0:0:0: [sda] 30031872 512-byte logical blocks: (15.4 GB/14.3 GiB)

[ 8.822350] sd 0:0:0:0: [sda] Write Protect is off

[ 8.829570] sd 0:0:0:0: [sda] Write cache: disabled, read cache: enabled, doesn't support DPO or FUA

[ 8.908720] sda: sda1

[ 8.921607] sd 0:0:0:0: [sda] Attached SCSI removable disk

[ 8.928553] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 8.935079] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Checking that no-one is using this disk right now ... OK

Disk /tmp/bigtmpfs/ramdisk.img: 803 MiB, 842006528 bytes, 1644544 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

>>> Created a new DOS disklabel with disk identifier 0x50467a9b.

/tmp/bigtmpfs/ramdisk.img1: Created a new partition 1 of type 'W95 FAT32' and of size 802 MiB.

/tmp/bigtmpfs/ramdisk.img2: Done.

New situation:

Disklabel type: dos

Disk identifier: 0x50467a9b

Device Boot Start End Sectors Size Id Type

/tmp/bigtmpfs/ramdisk.img1 2048 1644543 1642496 802M b W95 FAT32

The partition table has been altered.

Syncing disks.

mkfs.fat 4.2 (2021-01-31)

Activate Mass Storage device

[ 12.479725] Mass Storage Function, version: 2009/09/11

[ 12.484888] LUN: removable file: (no medium)

[ 12.489274] LUN: file: /tmp/bigtmpfs/ramdisk.img

[ 12.493905] Number of LUNs=1

[ 12.496950] g\_mass\_storage gadget: Mass Storage Gadget, version: 2009/09/11

[ 12.503925] g\_mass\_storage gadget: g\_mass\_storage ready

[ 12.514818] phy phy-1c13400.phy.0: Changing dr\_mode to 1

Load modules for USB to work

Looking for update .fit on /dev/sda...

[ 12.565945] exFAT-fs (sda): invalid fs\_name

[ 12.570211] exFAT-fs (sda): failed to read boot sector

[ 12.575345] exFAT-fs (sda): failed to recognize exfat type

Looking for update .fit on /dev/sda1...

[ 12.607114] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.

Will use wb\_update\_FACTORYRESET.fit from USB Flash Drive

##############################################################################

FACTORY RESET REQUESTED

This WILL destroy ALL YOUR DATA: configuration, scripts,

files in home directory!

If you are ABSOLUTELY SURE that you want to reset Wiren Board

to factory condition, hold the FW button for 4 seconds.

If you will not do it in 10 seconds, the controller will reboot

without firmware update.

If you want to perform a regular firmware update, rename

FIT file to "wbX\_update.fit" without "factory-reset" suffix.

##############################################################################

....

Factory reset is confirmed!

===============================================================================

Thu Jan 1 00:00:18 UTC 1970: started update from /disk/wb\_update\_FACTORYRESET.fit

===============================================================================

Description: WirenBoard firmware update

Compatible device: wirenboard,wirenboard-720

Firmware version: 202409041832

Firmware compatible: +single-rootfs +fit-factory-reset +force-repartition +repartition-ramsize-fix +update-from-cloud

Release name: wb-2407

Release suite: stable

Release target: wb7/bullseye

Release repo prefix:

Time of creation: Wed Sep 4 18:35:00 UTC 2024

===============================================================================

>>> Checking SHA1 hash of install

PROGRESS: 0%

PROGRESS: 0%

>>> SHA1 hash of install ok

>>> Wiping data partition (factory reset)

[ 19.111388] EXT4-fs (mmcblk0p6): recovery complete

[ 19.116418] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00180333 s, 9.1 MB/s

>>> Firmware seems to be compatible with this controller

>>> Extracting install script

>>> Running install script

>>> Console logging enabled; tempfile /tmp/tmp.1uVQJe, final file /disk/wb-console.log will be written on exit

>>> Extend tmpfs size to whole RAM

>>> Remount tmpfs in /tmp with size=1003M

>>> Maybe update factoryreset.fit to fix tmpfs size issue at 512M RAM (with emmc update)

[ 22.697155] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Factoryreset.fit already includes a fix for the 512MB RAM repartition issue (repartition-ramsize-fix compatibility)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.002188 s, 7.5 MB/s

>>> Firmware seems to be compatible with this controller

>>> Wiping data partition (factory reset)

[ 26.005584] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

[ 26.919972] random: crng init done

>>> Checking SHA1 hash of rootfs

PROGRESS: 0%

PROGRESS: 8%

PROGRESS: 16%

PROGRESS: 25%

PROGRESS: 33%

PROGRESS: 41%

PROGRESS: 49%[ 38.239515] vcc-gmac-phy: disabling

[ 38.243412] dc5ldo: disabling

[ 38.246941] dldo4: disabling

[ 38.250177] vdd-sd-power: disabling

[ 38.253673] vcc-sd: disabling

PROGRESS: 57%

PROGRESS: 65%

PROGRESS: 73%

PROGRESS: 82%

PROGRESS: 91%

PROGRESS: 99%

PROGRESS: 100%

>>> SHA1 hash of rootfs ok

>>> rootfs is valid, installing firmware update

>>> Partition table seems to be changed already, continue

>>> rootfs enlarged!

>>> Configuring environment for repartitioned eMMC

>>> Will install to /dev/mmcblk0p2

[ 44.119158] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

!!! Unable to mount root filesystem

[ 45.190632] reboot: Restarting system

[EC] Reboot request, reset power.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

................................................

326 bytes read in 2 ms (159.2 KiB/s)

Importing environment from 0x42000000...

Checking if uenvcmd is set ...

test - minimal test like /bin/sh

Usage:

test [args..]

Running default loadzimage ...

6479656 bytes read in 180 ms (34.3 MiB/s)

MMC read: dev # 1, block # 2016, count 32 ... 32 blocks read: OK

Reading overlays list from eMMC

Reading factory fdt name from eMMC

Loading factory fdt sun8i-r40-wirenboard742

57723 bytes read in 6 ms (9.2 MiB/s)

254 bytes read in 2 ms (124 KiB/s)

Applying DT overlay temp-industrial

Applying extra overlay

Booting from mmc ...

Kernel image @ 0x42000000 [ 0x000000 - 0x62df28 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fdd000, end 49ffffff ... OK

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #1 SMP Wed Dec 27 07:33:31 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.4.2 (A40i)

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 20 pages/cpu s50444 r8192 d23284 u81920

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 root=/dev/mmcblk0p2 rootwait ro

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1004488K/1048576K available (10240K kernel code, 1478K rwdata, 3228K rodata, 1024K init, 306K bss, 27704K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] ftrace: allocating 31878 entries in 63 pages

[ 0.000000] ftrace: allocated 63 pages with 6 groups

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU event tracing is enabled.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] Rude variant of Tasks RCU enabled.

[ 0.000000] Tracing variant of Tasks RCU enabled.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x660/0x844 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000008] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000024] Switching to timer-based delay loop, resolution 41ns

[ 0.000402] Console: colour dummy device 80x30

[ 0.000905] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.001069] pid\_max: default: 32768 minimum: 301

[ 0.001851] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.001922] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.003907] CPU: Testing write buffer coherency: ok

[ 0.004448] /cpus/cpu@0 missing clock-frequency property

[ 0.004507] /cpus/cpu@1 missing clock-frequency property

[ 0.004563] /cpus/cpu@2 missing clock-frequency property

[ 0.004624] /cpus/cpu@3 missing clock-frequency property

[ 0.004646] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.006189] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.007090] rcu: Hierarchical SRCU implementation.

[ 0.008873] smp: Bringing up secondary CPUs ...

[ 0.020525] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.032055] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.043380] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.043597] smp: Brought up 1 node, 4 CPUs

[ 0.043638] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.043653] CPU: All CPU(s) started in HYP mode.

[ 0.043666] CPU: Virtualization extensions available.

[ 0.045998] devtmpfs: initialized

[ 0.069839] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.070224] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.070268] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.071378] pinctrl core: initialized pinctrl subsystem

[ 0.074997] NET: Registered protocol family 16

[ 0.079752] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.081439] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.082035] No ATAGs?

[ 0.082282] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.082300] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.178170] SCSI subsystem initialized

[ 0.178566] usbcore: registered new interface driver usbfs

[ 0.178661] usbcore: registered new interface driver hub

[ 0.178762] usbcore: registered new device driver usb

[ 0.179295] mc: Linux media interface: v0.10

[ 0.179359] videodev: Linux video capture interface: v2.00

[ 0.179454] pps\_core: LinuxPPS API ver. 1 registered

[ 0.179473] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>

[ 0.179509] PTP clock support registered

[ 0.179879] Advanced Linux Sound Architecture Driver Initialized.

[ 0.182281] clocksource: Switched to clocksource arch\_sys\_counter

[ 1.419708] NET: Registered protocol family 2

[ 1.421740] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 1.421883] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 1.422103] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 1.422482] TCP: Hash tables configured (established 8192 bind 8192)

[ 1.422790] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 1.422896] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 1.423288] NET: Registered protocol family 1

[ 1.424329] RPC: Registered named UNIX socket transport module.

[ 1.424360] RPC: Registered udp transport module.

[ 1.424378] RPC: Registered tcp transport module.

[ 1.424394] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 1.427545] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 1.430118] Initialise system trusted keyrings

[ 1.430467] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 1.446707] NFS: Registering the id\_resolver key type

[ 1.446773] Key type id\_resolver registered

[ 1.446791] Key type id\_legacy registered

[ 1.633023] Key type asymmetric registered

[ 1.633052] Asymmetric key parser 'x509' registered

[ 1.633226] bounce: pool size: 64 pages

[ 1.633309] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)

[ 1.633329] io scheduler mq-deadline registered

[ 1.633343] io scheduler kyber registered

[ 1.636403] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.681166] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.708246] brd: module loaded

[ 1.728579] loop: module loaded

[ 1.739197] libphy: Fixed MDIO Bus: probed

[ 1.741099] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.741900] libphy: sun4i\_mii\_bus: probed

[ 1.745954] CAN device driver interface

[ 1.750043] PPP generic driver version 2.4.2

[ 1.750500] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.750532] ehci-platform: EHCI generic platform driver

[ 1.752123] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.752166] ohci-platform: OHCI generic platform driver

[ 1.754040] usbcore: registered new interface driver usb-storage

[ 1.754520] usbcore: registered new interface driver usbserial\_generic

[ 1.754660] usbserial: USB Serial support registered for generic

[ 1.758194] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.758221] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.758672] i2c /dev entries driver

[ 1.771801] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.777333] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.778438] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.778979] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.779602] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.779871] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.780118] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.780307] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.780551] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.780768] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.781796] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.782716] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.785505] usbcore: registered new interface driver usbhid

[ 1.785528] usbhid: USB HID core driver

[ 1.796446] Initializing XFRM netlink socket

[ 1.797455] NET: Registered protocol family 10

[ 1.800217] Segment Routing with IPv6

[ 1.800409] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.801406] NET: Registered protocol family 17

[ 1.801445] can: controller area network core

[ 1.801578] NET: Registered protocol family 29

[ 1.801597] can: raw protocol

[ 1.801615] can: broadcast manager protocol

[ 1.801640] can: netlink gateway - max\_hops=1

[ 1.802176] Key type dns\_resolver registered

[ 1.802341] Registering SWP/SWPB emulation handler

[ 1.802477] registered taskstats version 1

[ 1.802545] Loading compiled-in X.509 certificates

[ 1.840073] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.848961] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.850173] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.856711] printk: console [ttyS0] disabled

[ 1.856903] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 2.799997] printk: console [ttyS0] enabled

[ 2.805778] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 2.812640] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 2.819298] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 2.826696] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.837425] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.849574] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.859088] libphy: sun4i\_mii\_bus: probed

[ 2.864905] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.871714] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.878368] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.888693] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.895646] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.902357] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.909854] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.920393] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.930067] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.936914] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.943377] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.950714] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.961184] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.981171] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 3.000611] vcc-3v3: supplied by regulator-dummy

[ 3.006922] vdd-cpu: supplied by regulator-dummy

[ 3.012893] vdd-sys: supplied by regulator-dummy

[ 3.018702] dcdc4: supplied by regulator-dummy

[ 3.024438] vcc-dram: supplied by regulator-dummy

[ 3.029376] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 3.036433] vcc-gmac-phy: supplied by vcc-3v3

[ 3.042055] dc5ldo: supplied by vcc-dram

[ 3.046702] tv: Bringing 700000uV into 3300000-3300000uV

[ 3.052754] tv: supplied by regulator-dummy

[ 3.057600] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 3.064039] aldo2: supplied by regulator-dummy

[ 3.070919] avcc-pll: supplied by regulator-dummy

[ 3.077728] eldo1: supplied by regulator-dummy

[ 3.083746] eldo2: supplied by regulator-dummy

[ 3.089023] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 3.096058] vcc-pe: supplied by regulator-dummy

[ 3.101298] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 3.109609] vcc-sd-alt: supplied by regulator-dummy

[ 3.116212] dldo2: supplied by regulator-dummy

[ 3.122150] dldo3: supplied by regulator-dummy

[ 3.127979] dldo4: supplied by regulator-dummy

[ 3.133362] rtc\_ldo: supplied by regulator-dummy

[ 3.139156] ldo\_io0: supplied by regulator-dummy

[ 3.144897] ldo\_io1: supplied by regulator-dummy

[ 3.150541] axp20x-adc axp22x-adc: DMA mask not set

[ 3.155956] random: fast init done

[ 3.161066] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 3.172470] axp20x-i2c 0-0034: AXP20X driver loaded

[ 3.235903] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 3.243672] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 3.254050] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 3.261987] libphy: sun4i\_mii\_bus: probed

[ 3.267452] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 3.399940] mmc0: new DDR MMC card at address 0001

[ 3.405694] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 3.405869] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 66 MAC: 00:85:01:01:5f:29

[ 3.410623] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 3.419543] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 3.424840] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 3.430798] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 3.437027] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (246:0)

[ 3.443151] dwmac-sun8i 1c50000.ethernet: PTP uses main clock

[ 3.456200] dwmac-sun8i 1c50000.ethernet: No HW DMA feature register supported

[ 3.463475] dwmac-sun8i 1c50000.ethernet: RX Checksum Offload Engine supported

[ 3.470713] dwmac-sun8i 1c50000.ethernet: COE Type 2

[ 3.475709] dwmac-sun8i 1c50000.ethernet: TX Checksum insertion supported

[ 3.482510] dwmac-sun8i 1c50000.ethernet: Normal descriptors

[ 3.488167] dwmac-sun8i 1c50000.ethernet: Chain mode enabled

[ 3.494528] libphy: stmmac: probed

[ 3.498482] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 3.764736] ehci-platform 1c14000.usb: EHCI Host Controller

[ 3.770366] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 3.778527] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 3.812224] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 3.819319] hub 1-0:1.0: USB hub found

[ 3.823181] hub 1-0:1.0: 1 port detected

[ 3.828332] ehci-platform 1c19000.usb: EHCI Host Controller

[ 3.833961] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 3.841946] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 3.872222] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 3.879226] hub 2-0:1.0: USB hub found

[ 3.883056] hub 2-0:1.0: 1 port detected

[ 3.888159] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 3.893778] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 3.901738] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 3.932612] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 3.939562] hub 3-0:1.0: USB hub found

[ 3.943388] hub 3-0:1.0: 1 port detected

[ 4.042430] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 4.049066] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 4.057042] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 4.137106] hub 4-0:1.0: USB hub found

[ 4.140911] hub 4-0:1.0: 1 port detected

[ 4.146022] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 4.152678] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 4.160617] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 4.237118] hub 5-0:1.0: USB hub found

[ 4.240946] hub 5-0:1.0: 1 port detected

[ 4.246175] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 4.252852] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 4.260645] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 4.267915] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 4.312225] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 4.347085] hub 6-0:1.0: USB hub found

[ 4.350888] hub 6-0:1.0: 1 port detected

[ 4.363947] of\_cfs\_init

[ 4.366551] of\_cfs\_init: OK

[ 4.370062] ALSA device list:

[ 4.373098] No soundcards found.

[ 4.384128] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 4.395742] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

[ 4.405586] VFS: Cannot open root device "mmcblk0p2" or unknown-block(179,2): error -74

[ 4.413643] Please append a correct "root=" boot option; here are the available partitions:

[ 4.422012] 0100 65536 ram0

[ 4.422019] (driver?)

[ 4.428165] 0101 65536 ram1

[ 4.428171] (driver?)

[ 4.434303] 0102 65536 ram2

[ 4.434309] (driver?)

[ 4.440426] 0103 65536 ram3

[ 4.440432] (driver?)

[ 4.446565] 0104 65536 ram4

[ 4.446570] (driver?)

[ 4.452713] 0105 65536 ram5

[ 4.452719] (driver?)

[ 4.458825] 0106 65536 ram6

[ 4.458830] (driver?)

[ 4.464961] 0107 65536 ram7

[ 4.464967] (driver?)

[ 4.471071] 0108 65536 ram8

[ 4.471077] (driver?)

[ 4.477198] 0109 65536 ram9

[ 4.477203] (driver?)

[ 4.483319] 010a 65536 ram10

[ 4.483325] (driver?)

[ 4.489517] 010b 65536 ram11

[ 4.489522] (driver?)

[ 4.495727] 010c 65536 ram12

[ 4.495732] (driver?)

[ 4.501923] 010d 65536 ram13

[ 4.501928] (driver?)

[ 4.508131] 010e 65536 ram14

[ 4.508137] (driver?)

[ 4.514340] 010f 65536 ram15

[ 4.514345] (driver?)

[ 4.520547] b300 7634944 mmcblk0

[ 4.520554] driver: mmcblk

[ 4.527364] b301 16384 mmcblk0p1 863286c1-01

[ 4.527370]

[ 4.534180] b302 2097152 mmcblk0p2 863286c1-02

[ 4.534186]

[ 4.540981] b303 2048 mmcblk0p3 863286c1-03

[ 4.540986]

[ 4.547795] b304 1 mmcblk0p4

[ 4.547800]

[ 4.553657] b305 262144 mmcblk0p5 863286c1-05

[ 4.553663]

[ 4.560459] b306 5254144 mmcblk0p6 863286c1-06

[ 4.560464]

[ 4.567289] Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(179,2)

[ 4.575718] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 5.10.35-wb159 #1

[ 4.582234] Hardware name: Allwinner sun8i Family

[ 4.586931] Backtrace:

[ 4.589398] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.596960] r7:ffffffff r6:60000093 r5:00000000 r4:c10e4998

[ 4.602617] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.609834] [<c0a08d7c>] (dump\_stack) from [<c0a059c4>] (panic+0x12c/0x358)

[ 4.616790] r9:c0d36fb8 r8:00000000 r7:c0d36f24 r6:c100baf8 r5:00000000 r4:c11725d8

[ 4.624530] [<c0a05898>] (panic) from [<c0f01d54>] (mount\_block\_root+0x1d4/0x258)

[ 4.632003] r3:00000000 r2:00000000 r1:c1535eac r0:c0d36f24

[ 4.637654] r7:c0f57d5c

[ 4.640189] [<c0f01b80>] (mount\_block\_root) from [<c0f01ef4>] (mount\_root+0x11c/0x144)

[ 4.648098] r10:c0e25278 r9:c0f57d58 r8:c1172000 r7:c0f57d38 r6:00000008 r5:c0f57d6d

[ 4.655914] r4:00000002

[ 4.658450] [<c0f01dd8>] (mount\_root) from [<c0f0207c>] (prepare\_namespace+0x160/0x19c)

[ 4.666444] r7:c0f57d38 r6:00000008 r5:c0f57d6d r4:c1172038

[ 4.672100] [<c0f01f1c>] (prepare\_namespace) from [<c0f01858>] (kernel\_init\_freeable+0x298/0x2ac)

[ 4.680959] r5:c16623c0 r4:c1008b50

[ 4.684535] [<c0f015c0>] (kernel\_init\_freeable) from [<c0a0f870>] (kernel\_init+0x18/0x12c)

[ 4.692790] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c0a0f858

[ 4.700607] r4:00000000

[ 4.703143] [<c0a0f858>] (kernel\_init) from [<c0100114>] (ret\_from\_fork+0x14/0x20)

[ 4.710701] Exception stack(0xc1535fb0 to 0xc1535ff8)

[ 4.715748] 5fa0: 00000000 00000000 00000000 00000000

[ 4.723915] 5fc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

[ 4.732081] 5fe0: 00000000 00000000 00000000 00000000 00000013 00000000

[ 4.738687] r5:c0a0f858 r4:00000000

[ 4.742269] CPU2: stopping

[ 4.744977] CPU: 2 PID: 0 Comm: swapper/2 Not tainted 5.10.35-wb159 #1

[ 4.751494] Hardware name: Allwinner sun8i Family

[ 4.756189] Backtrace:

[ 4.758642] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.766202] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 4.771858] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.779076] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 4.786725] r9:c1571f30 r8:c14e0000 r7:00000001 r6:00000002 r5:c115e300 r4:c1172438

[ 4.794460] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 4.802022] r9:c1571f30 r8:c14e0000 r7:00000001 r6:2e71c000 r5:c145cf40 r4:00000014

[ 4.809760] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 4.818971] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 4.828783] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 4.834439] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 4.842780] r9:c1571f30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 4.850515] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 4.857987] Exception stack(0xc1571f30 to 0xc1571f78)

[ 4.863032] 1f20: 00000000 00000c54 ef6ba1c4 c011b2c0

[ 4.871200] 1f40: c115f080 00000002 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c1571f8c

[ 4.879368] 1f60: c1571f90 c1571f80 c01087c4 c01087c8 60000013 ffffffff

[ 4.885975] r9:c1570000 r8:c115dca9 r7:c1571f64 r6:ffffffff r5:60000013 r4:c01087c8

[ 4.893715] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 4.901887] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 4.909611] r5:00000002 r4:c1570000

[ 4.913186] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 4.920748] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000002 r4:00000091

[ 4.928484] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 4.937521] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 4.944906] r5:00000051 r4:4156406a

[ 4.948477] CPU1: stopping

[ 4.951187] CPU: 1 PID: 0 Comm: swapper/1 Not tainted 5.10.35-wb159 #1

[ 4.957704] Hardware name: Allwinner sun8i Family

[ 4.962400] Backtrace:

[ 4.964853] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.972413] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 4.978069] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.985286] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 4.992935] r9:c156ff30 r8:c14e0000 r7:00000001 r6:00000001 r5:c115e300 r4:c1172438

[ 5.000670] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 5.008232] r9:c156ff30 r8:c14e0000 r7:00000001 r6:2e708000 r5:c145cf40 r4:00000014

[ 5.015968] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 5.025178] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 5.034991] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 5.040646] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 5.048988] r9:c156ff30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 5.056722] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 5.064192] Exception stack(0xc156ff30 to 0xc156ff78)

[ 5.069238] ff20: 00000000 00000dac ef6a61c4 c011b2c0

[ 5.077406] ff40: c115f080 00000001 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c156ff8c

[ 5.085572] ff60: c156ff90 c156ff80 c01087c4 c01087c8 60000013 ffffffff

[ 5.092180] r9:c156e000 r8:c115dca9 r7:c156ff64 r6:ffffffff r5:60000013 r4:c01087c8

[ 5.099917] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 5.108087] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 5.115819] r5:00000001 r4:c156e000

[ 5.119394] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 5.126956] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000001 r4:00000091

[ 5.134692] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 5.143727] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 5.151112] r5:00000051 r4:4156406a

[ 5.154683] CPU3: stopping

[ 5.157392] CPU: 3 PID: 0 Comm: swapper/3 Not tainted 5.10.35-wb159 #1

[ 5.163908] Hardware name: Allwinner sun8i Family

[ 5.168604] Backtrace:

[ 5.171056] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 5.178616] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 5.184273] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 5.191489] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 5.199138] r9:c1573f30 r8:c14e0000 r7:00000001 r6:00000003 r5:c115e300 r4:c1172438

[ 5.206874] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 5.214436] r9:c1573f30 r8:c14e0000 r7:00000001 r6:2e730000 r5:c145cf40 r4:00000014

[ 5.222172] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 5.231382] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 5.241194] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 5.246848] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 5.255191] r9:c1573f30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 5.262926] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 5.270396] Exception stack(0xc1573f30 to 0xc1573f78)

[ 5.275442] 3f20: 00000000 00000f98 ef6ce1c4 c011b2c0

[ 5.283610] 3f40: c115f080 00000003 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c1573f8c

[ 5.291777] 3f60: c1573f90 c1573f80 c01087c4 c01087c8 60000013 ffffffff

[ 5.298385] r9:c1572000 r8:c115dca9 r7:c1573f64 r6:ffffffff r5:60000013 r4:c01087c8

[ 5.306122] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 5.314293] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 5.322024] r5:00000003 r4:c1572000

[ 5.325599] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 5.333161] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000003 r4:00000091

[ 5.340897] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 5.349932] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 5.357317] r5:00000051 r4:4156406a

[ 5.360898] Rebooting in 10 seconds..

[ 15.375150] ------------[ cut here ]------------

[ 15.379772] WARNING: CPU: 0 PID: 13 at kernel/sched/core.c:1988 set\_task\_cpu+0x230/0x2a4

[ 15.387850] Modules linked in:

[ 15.390906] CPU: 0 PID: 13 Comm: migration/0 Not tainted 5.10.35-wb159 #1

[ 15.397682] Hardware name: Allwinner sun8i Family

[ 15.402378] Backtrace:

[ 15.404828] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 15.412389] r7:ffffffff r6:60000093 r5:00000000 r4:c10e4998

[ 15.418045] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 15.425264] [<c0a08d7c>] (dump\_stack) from [<c0123c50>] (\_\_warn+0xfc/0x158)

[ 15.432220] r9:0000065c r8:00000009 r7:000007c4 r6:00000009 r5:c01591a0 r4:c0d40684

[ 15.439956] [<c0123b54>] (\_\_warn) from [<c0a05c60>] (warn\_slowpath\_fmt+0x70/0xcc)

[ 15.447429] r7:c01591a0 r6:000007c4 r5:c0d40684 r4:00000000

[ 15.453084] [<c0a05bf4>] (warn\_slowpath\_fmt) from [<c01591a0>] (set\_task\_cpu+0x230/0x2a4)

[ 15.461251] r8:c1540000 r7:2e71c000 r6:c1004f54 r5:00000002 r4:c1540000

[ 15.467948] [<c0158f70>] (set\_task\_cpu) from [<c0163fd4>] (active\_load\_balance\_cpu\_stop+0x1a4/0x280)

[ 15.477069] r7:2e71c000 r6:c0f9d940 r5:ef691940 r4:c1514100

[ 15.482727] [<c0163e30>] (active\_load\_balance\_cpu\_stop) from [<c01f36a4>] (cpu\_stopper\_thread+0x80/0x148)

[ 15.492283] r10:00000000 r9:ef68ba98 r8:ef68baa0 r7:ef691940 r6:c0163e30 r5:c156c000

[ 15.500100] r4:ef68ba94

[ 15.502637] [<c01f3624>] (cpu\_stopper\_thread) from [<c01505f8>] (smpboot\_thread\_fn+0xec/0x1ac)

[ 15.511239] r10:00000000 r9:00000002 r8:ffffe000 r7:c1085478 r6:00000001 r5:c156c000

[ 15.519055] r4:c14f1cc0

[ 15.521592] [<c015050c>] (smpboot\_thread\_fn) from [<c014a710>] (kthread+0x168/0x16c)

[ 15.529328] r10:c1535de4 r9:c14f1cc0 r8:c015050c r7:c156c000 r6:00000000 r5:c14f1d80

[ 15.537146] r4:c14f1dc0

[ 15.539680] [<c014a5a8>] (kthread) from [<c0100114>] (ret\_from\_fork+0x14/0x20)

[ 15.546892] Exception stack(0xc156dfb0 to 0xc156dff8)

[ 15.551938] dfa0: 00000000 00000000 00000000 00000000

[ 15.560105] dfc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

[ 15.568272] dfe0: 00000000 00000000 00000000 00000000 00000013 00000000

[ 15.574880] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c014a5a8

[ 15.582697] r4:c14f1d80

[ 15.585227] ---[ end trace 4053c6561b9c0335 ]---

[EC] 3.3V is lost, try to reset power

[EC] Enable WBMZ to prevent power loss under load

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

.......

Entering firmware update mode.

Checking if ubootenv part is present

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

Can't find subimage 'ubootenv'

Extracting kernel

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

11523560 bytes read in 332 ms (33.1 MiB/s)

Description: Update kernel

Type: Kernel Image

Compression: uncompressed

Data Start: 0x42000300

Data Size: 11514600 Bytes = 11 MiB

Architecture: ARM

OS: Linux

Load Address: unavailable

Entry Point: unavailable

Hash algo: sha1

Hash value: 8485f8a5458f57a80cab6a345c1ee67f7e40ae25

## Verifying ... sha1+

Loading part 0 ... OK

Extracting DTB

## Loading FIT header to 0x43000000 ...

## Loading FIT strings to 0x43000028 ...

## Loading FIT struct to 0x43000100 ...

66325 bytes read in 24 ms (2.6 MiB/s)

Description: Update DTB

Type: Flat Device Tree

Compression: uncompressed

Data Start: 0x43000440

Data Size: 57045 Bytes = 55.7 KiB

Architecture: ARM

Hash algo: sha1

Hash value: 55ec41560f668ab075c7524503142abcbc96bed8

## Verifying ... sha1+

Loading part 0 ... OK

Kernel image @ 0x42000000 [ 0x000000 - 0xafb2e8 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fef000, end 49fffed4 ... OK

## DT property 'device-serial' not found! If the device was produced before 2023-08-07, please ignore it

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #2 SMP Wed Dec 27 07:38:59 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.x (A40i), factory bootlet

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 15 pages/cpu s31180 r8192 d22068 u61440

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 bootmode=update\_auto

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1003260K/1048576K available (7168K kernel code, 655K rwdata, 1540K rodata, 8192K init, 396K bss, 28932K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x32c/0x4f8 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000010] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000031] Switching to timer-based delay loop, resolution 41ns

[ 0.000454] Console: colour dummy device 80x30

[ 0.000524] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.000552] pid\_max: default: 32768 minimum: 301

[ 0.000760] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.000783] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.001832] CPU: Testing write buffer coherency: ok

[ 0.002189] /cpus/cpu@0 missing clock-frequency property

[ 0.002221] /cpus/cpu@1 missing clock-frequency property

[ 0.002246] /cpus/cpu@2 missing clock-frequency property

[ 0.002271] /cpus/cpu@3 missing clock-frequency property

[ 0.002536] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.004205] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.004457] rcu: Hierarchical SRCU implementation.

[ 0.005429] smp: Bringing up secondary CPUs ...

[ 0.016432] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.027528] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.038514] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.038662] smp: Brought up 1 node, 4 CPUs

[ 0.038697] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.038708] CPU: All CPU(s) started in HYP mode.

[ 0.038717] CPU: Virtualization extensions available.

[ 0.039512] devtmpfs: initialized

[ 0.059543] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.059924] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.059961] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.061093] pinctrl core: initialized pinctrl subsystem

[ 0.062386] NET: Registered protocol family 16

[ 0.065065] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.066545] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.067137] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.067159] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.125243] SCSI subsystem initialized

[ 0.125604] usbcore: registered new interface driver usbfs

[ 0.125684] usbcore: registered new interface driver hub

[ 0.125757] usbcore: registered new device driver usb

[ 0.127760] clocksource: Switched to clocksource arch\_sys\_counter

[ 0.129148] FS-Cache: Loaded

[ 0.129701] CacheFiles: Loaded

[ 0.143327] NET: Registered protocol family 2

[ 0.143992] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 0.144045] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 0.144128] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 0.144259] TCP: Hash tables configured (established 8192 bind 8192)

[ 0.145036] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.145199] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.145717] NET: Registered protocol family 1

[ 0.146768] RPC: Registered named UNIX socket transport module.

[ 0.146797] RPC: Registered udp transport module.

[ 0.146813] RPC: Registered tcp transport module.

[ 0.146826] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 0.869299] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 0.871804] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 0.885877] NFS: Registering the id\_resolver key type

[ 0.885939] Key type id\_resolver registered

[ 0.885951] Key type id\_legacy registered

[ 0.886007] ntfs: driver 2.1.32 [Flags: R/W].

[ 0.886775] bounce: pool size: 64 pages

[ 0.886829] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 250)

[ 0.886842] io scheduler mq-deadline registered

[ 0.886851] io scheduler kyber registered

[ 0.888817] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.017680] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.038898] loop: module loaded

[ 1.051389] libphy: Fixed MDIO Bus: probed

[ 1.052662] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.053731] libphy: sun4i\_mii\_bus: probed

[ 1.056493] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.056642] ehci-platform: EHCI generic platform driver

[ 1.058420] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.058476] ohci-platform: OHCI generic platform driver

[ 1.059421] usbcore: registered new interface driver cdc\_acm

[ 1.059437] cdc\_acm: USB Abstract Control Model driver for USB modems and ISDN adapters

[ 1.059522] usbcore: registered new interface driver usb-storage

[ 1.062374] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.062449] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.063290] i2c /dev entries driver

[ 1.067227] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.071200] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.071680] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.071953] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072336] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072482] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072616] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.073142] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.073712] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.074067] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.074349] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.074626] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.077121] iio-rescale a1-volt: using raw+scale source channel

[ 1.077429] iio-rescale a2-volt: using raw+scale source channel

[ 1.077703] iio-rescale a3-volt: using raw+scale source channel

[ 1.078040] iio-rescale vin-volt: using raw+scale source channel

[ 1.081954] NET: Registered protocol family 10

[ 1.082994] Segment Routing with IPv6

[ 1.083104] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.084625] NET: Registered protocol family 17

[ 1.084868] Key type dns\_resolver registered

[ 1.084993] Registering SWP/SWPB emulation handler

[ 1.085173] registered taskstats version 1

[ 1.110451] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.116330] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.118061] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.120284] printk: console [ttyS0] disabled

[ 1.120427] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 1.972582] printk: console [ttyS0] enabled

[ 1.977805] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 1.984599] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 1.991307] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 1.998653] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.009365] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.020109] wbec-adc: Failed to locate of\_node [id: -2]

[ 2.025604] wbec-gpio: Failed to locate of\_node [id: -2]

[ 2.031154] wbec-gpio wbec-gpio.2.auto: No ngpios property in device tree

[ 2.037991] wbec-gpio: probe of wbec-gpio.2.auto failed with error -22

[ 2.052601] wbec-watchdog wbec-watchdog.3.auto: DMA mask not set

[ 2.059255] wbec-rtc: Failed to locate of\_node [id: -2]

[ 2.071133] wbec-pwrkey wbec-pwrkey.5.auto: DMA mask not set

[ 2.077011] input: wbec pwrkey as /devices/platform/soc/1c17000.spi/spi\_master/spi0/spi0.0/wbec-pwrkey.5.auto/input/input0

[ 2.096418] wbec-power wbec-power.6.auto: DMA mask not set

[ 2.102604] wbec spi0.0: WBEC device added

[ 2.107436] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.115489] libphy: sun4i\_mii\_bus: probed

[ 2.120343] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.127194] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.133914] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.143105] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.150132] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.156757] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.164260] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.174791] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.183403] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.190226] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.196667] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.204064] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.214586] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.234961] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 2.249731] input: axp20x-pek as /devices/platform/soc/1c2ac00.i2c/i2c-0/0-0034/axp221-pek/input/input1

[ 2.270779] vcc-3v3: supplied by regulator-dummy

[ 2.276514] vdd-cpu: supplied by regulator-dummy

[ 2.282205] vdd-sys: supplied by regulator-dummy

[ 2.287808] dcdc4: supplied by regulator-dummy

[ 2.292784] random: fast init done

[ 2.297210] vcc-dram: supplied by regulator-dummy

[ 2.302481] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 2.309462] vcc-gmac-phy: supplied by vcc-3v3

[ 2.315101] dc5ldo: supplied by vcc-dram

[ 2.319806] tv: Bringing 700000uV into 3300000-3300000uV

[ 2.325816] tv: supplied by regulator-dummy

[ 2.330768] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 2.337096] aldo2: supplied by regulator-dummy

[ 2.342938] avcc-pll: supplied by regulator-dummy

[ 2.348597] eldo1: supplied by regulator-dummy

[ 2.353909] eldo2: supplied by regulator-dummy

[ 2.359014] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 2.365726] vcc-pe: supplied by regulator-dummy

[ 2.370879] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 2.377702] vcc-sd-alt: supplied by regulator-dummy

[ 2.383297] dldo2: supplied by regulator-dummy

[ 2.388524] dldo3: supplied by regulator-dummy

[ 2.393688] dldo4: supplied by regulator-dummy

[ 2.398521] rtc\_ldo: supplied by regulator-dummy

[ 2.403890] ldo\_io0: supplied by regulator-dummy

[ 2.409305] ldo\_io1: supplied by regulator-dummy

[ 2.420621] axp20x-adc axp22x-adc: DMA mask not set

[ 2.434068] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 2.444929] axp20x-i2c 0-0034: AXP20X driver loaded

[ 4.567769] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 4.574334] rtc-pcf85063 2-0051: RTC chip is not present

[ 4.580011] rtc-pcf85063: probe of 2-0051 failed with error -110

[ 4.592773] lm75 2-0048: supply vs not found, using dummy regulator

[ 6.647769] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 6.655357] lm75: probe of 2-0048 failed with error -110

[ 6.682941] sun4i-pinctrl 1c20800.pinctrl: pin PB16 already requested by 1c17000.spi; cannot claim for i2c\_eeprom1

[ 6.693343] sun4i-pinctrl 1c20800.pinctrl: pin-48 (i2c\_eeprom1) status -22

[ 6.700235] sun4i-pinctrl 1c20800.pinctrl: could not request pin 48 (PB16) from group PB16 on device 1c20800.pinctrl

[ 6.707757] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 6.710839] i2c-gpio i2c\_eeprom1: Error applying setting, reverse things back

[ 6.726848] i2c-gpio: probe of i2c\_eeprom1 failed with error -22

[ 6.733145] sun4i-pinctrl 1c20800.pinctrl: pin PB14 already requested by 1c17000.spi; cannot claim for i2c\_eeprom2

[ 6.743513] sun4i-pinctrl 1c20800.pinctrl: pin-46 (i2c\_eeprom2) status -22

[ 6.750399] sun4i-pinctrl 1c20800.pinctrl: could not request pin 46 (PB14) from group PB14 on device 1c20800.pinctrl

[ 6.761009] i2c-gpio i2c\_eeprom2: Error applying setting, reverse things back

[ 6.768158] i2c-gpio: probe of i2c\_eeprom2 failed with error -22

[ 6.774449] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 6.781773] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 6.791942] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 6.799862] libphy: sun4i\_mii\_bus: probed

[ 6.899770] mmc0: new DDR MMC card at address 0001

[ 6.905260] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 6.910160] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 6.916377] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 6.922644] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (249:0)

[ 6.932263] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 6.941957] sun4i-emac 1c0b000.ethernet: using random MAC address f2:81:97:d7:71:e5

[ 6.951688] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 67 MAC: f2:81:97:d7:71:e5

[ 6.960536] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 6.966891] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 6.973745] ehci-platform 1c14000.usb: EHCI Host Controller

[ 6.979358] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 6.987376] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 7.017775] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 7.024589] hub 1-0:1.0: USB hub found

[ 7.028411] hub 1-0:1.0: 1 port detected

[ 7.033133] ehci-platform 1c19000.usb: EHCI Host Controller

[ 7.038748] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 7.046659] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 7.077754] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 7.084472] hub 2-0:1.0: USB hub found

[ 7.088273] hub 2-0:1.0: 1 port detected

[ 7.092953] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 7.098560] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 7.106511] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 7.138439] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 7.145131] hub 3-0:1.0: USB hub found

[ 7.148926] hub 3-0:1.0: 1 port detected

[ 7.247893] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 7.254527] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 7.262442] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 7.342394] hub 4-0:1.0: USB hub found

[ 7.346175] hub 4-0:1.0: 1 port detected

[ 7.350926] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 7.357553] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 7.365512] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 7.442374] hub 5-0:1.0: USB hub found

[ 7.446155] hub 5-0:1.0: 1 port detected

[ 7.450915] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 7.457538] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 7.465358] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 7.472542] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 7.517754] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 7.552371] hub 6-0:1.0: USB hub found

[ 7.556150] hub 6-0:1.0: 1 port detected

[ 7.561109] usb\_phy\_generic usb\_phy\_generic.7.auto: supply vcc not found, using dummy regulator

[ 7.571554] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.577964] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.584969] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.591352] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.597604] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 7.597757] of\_cfs\_init

[ 7.607289] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.609077] of\_cfs\_init: OK

[ 7.615387] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.633469] Freeing unused kernel memory: 8192K

[ 7.657925] Run /init as init process

mount: mounting none on /dev/pts failed: No such file or directo[ 7.691806] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

ry

[ 7.698628] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.739899] usb-storage 1-1:1.0: USB Mass Storage device detected

[ 7.746807] scsi host0: usb-storage 1-1:1.0

[ 7.752342] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.758742] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Run busybox watchdog for /dev/watchdog

Run busybox watchdog for /dev/watchdog0

Run busybox watchdog [ 7.976043] wbec-watchdog wbec-watchdog.3.auto: stop watchdog, but actually EC watchdog is always running, timeout set to 300 seconds

for /dev/watchdog1

Run busybox watchdog for /dev/watchdog2

watchdog: can't open '/dev/watchdog': Device or resource busy

watchdog: WDIOC\_SETTIMEOUT: Invalid argument

Boot mode: update\_auto

Board is WB7

[ 8.809091] scsi 0:0:0:0: Direct-Access SanDisk Ultra USB 3.0 1.00 PQ: 0 ANSI: 6

[ 8.819468] sd 0:0:0:0: [sda] 30031872 512-byte logical blocks: (15.4 GB/14.3 GiB)

[ 8.828846] sd 0:0:0:0: [sda] Write Protect is off

[ 8.834974] sd 0:0:0:0: [sda] Write cache: disabled, read cache: enabled, doesn't support DPO or FUA

[ 8.935985] sda: sda1

[ 8.948956] sd 0:0:0:0: [sda] Attached SCSI removable disk

[ 8.955741] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 8.962266] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Checking that no-one is using this disk right now ... OK

Disk /tmp/bigtmpfs/ramdisk.img: 803 MiB, 842006528 bytes, 1644544 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

>>> Created a new DOS disklabel with disk identifier 0x7bbca188.

/tmp/bigtmpfs/ramdisk.img1: Created a new partition 1 of type 'W95 FAT32' and of size 802 MiB.

/tmp/bigtmpfs/ramdisk.img2: Done.

New situation:

Disklabel type: dos

Disk identifier: 0x7bbca188

Device Boot Start End Sectors Size Id Type

/tmp/bigtmpfs/ramdisk.img1 2048 1644543 1642496 802M b W95 FAT32

The partition table has been altered.

Syncing disks.

mkfs.fat 4.2 (2021-01-31)

Activate Mass Storage device

[ 12.418056] Mass Storage Function, version: 2009/09/11

[ 12.423219] LUN: removable file: (no medium)

[ 12.427598] LUN: file: /tmp/bigtmpfs/ramdisk.img

[ 12.432250] Number of LUNs=1

[ 12.435309] g\_mass\_storage gadget: Mass Storage Gadget, version: 2009/09/11

[ 12.442290] g\_mass\_storage gadget: g\_mass\_storage ready

[ 12.453027] phy phy-1c13400.phy.0: Changing dr\_mode to 1

Load modules for USB to work

Looking for update .fit on /dev/sda...

[ 12.499628] exFAT-fs (sda): invalid fs\_name

[ 12.503832] exFAT-fs (sda): failed to read boot sector

[ 12.509033] exFAT-fs (sda): failed to recognize exfat type

Looking for update .fit on /dev/sda1...

[ 12.544298] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.

Will use wb\_update\_FACTORYRESET.fit from USB Flash Drive

##############################################################################

FACTORY RESET REQUESTED

This WILL destroy ALL YOUR DATA: configuration, scripts,

files in home directory!

If you are ABSOLUTELY SURE that you want to reset Wiren Board

to factory condition, hold the FW button for 4 seconds.

If you will not do it in 10 seconds, the controller will reboot

without firmware update.

If you want to perform a regular firmware update, rename

FIT file to "wbX\_update.fit" without "factory-reset" suffix.

##############################################################################

....

Factory reset is confirmed!

===============================================================================

Thu Jan 1 00:00:17 UTC 1970: started update from /disk/wb\_update\_FACTORYRESET.fit

===============================================================================

Description: WirenBoard firmware update

Compatible device: wirenboard,wirenboard-720

Firmware version: 202409041832

Firmware compatible: +single-rootfs +fit-factory-reset +force-repartition +repartition-ramsize-fix +update-from-cloud

Release name: wb-2407

Release suite: stable

Release target: wb7/bullseye

Release repo prefix:

Time of creation: Wed Sep 4 18:35:00 UTC 2024

===============================================================================

>>> Checking SHA1 hash of install

PROGRESS: 0%

PROGRESS: 0%

>>> SHA1 hash of install ok

>>> Wiping data partition (factory reset)

[ 18.811352] EXT4-fs (mmcblk0p6): recovery complete

[ 18.816375] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00180742 s, 9.1 MB/s

>>> Firmware seems to be compatible with this controller

>>> Extracting install script

>>> Running install script

>>> Console logging enabled; tempfile /tmp/tmp.pXCvAP, final file /disk/wb-console.log will be written on exit

>>> Extend tmpfs size to whole RAM

>>> Remount tmpfs in /tmp with size=1003M

>>> Maybe update factoryreset.fit to fix tmpfs size issue at 512M RAM (with emmc update)

[ 22.444845] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Factoryreset.fit already includes a fix for the 512MB RAM repartition issue (repartition-ramsize-fix compatibility)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00235621 s, 7.0 MB/s

[ 23.240210] random: crng init done

>>> Firmware seems to be compatible with this controller

>>> Wiping data partition (factory reset)

[ 25.757148] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Checking SHA1 hash of rootfs

PROGRESS: 0%

PROGRESS: 7%

PROGRESS: 16%

PROGRESS: 24%

PROGRESS: 33%

PROGRESS: 42%

PROGRESS: 51%[ 38.247838] vcc-gmac-phy: disabling

[ 38.251785] dc5ldo: disabling

[ 38.255238] dldo4: disabling

[ 38.259066] vdd-sd-power: disabling

[ 38.262623] vcc-sd: disabling

PROGRESS: 59%

PROGRESS: 68%

PROGRESS: 77%

PROGRESS: 85%

PROGRESS: 94%

PROGRESS: 100%

>>> SHA1 hash of rootfs ok

>>> rootfs is valid, installing firmware update

>>> Partition table seems to be changed already, continue

>>> rootfs enlarged!

>>> Configuring environment for repartitioned eMMC

>>> Will install to /dev/mmcblk0p2

[ 43.430520] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

!!! Unable to mount root filesystem

[ 44.501914] reboot: Restarting system

[EC] Reboot request, reset power.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

=~=~=~=~=~=~=~=~=~=~=~= PuTTY log 2024.10.03 14:29:29 =~=~=~=~=~=~=~=~=~=~=~=

B

НЃю[?25l

[EC] Pausing for 5 secondsЧ±ЅЭA

СVС•ЌСU\*¤Ѕ№НЅ±•с ю[?25l

[EC] Pausing for 5 seconds to allow PC to detect USB console / [?25l

[EC] Pausing for 5 seconds to allow PC to detect USB console - [?25l

[EC] Pausing for 5 seconds to allow PC to detect USB console \ [?25l

[EC] Pausing for 5 seconds to allow PC to detect USB console | [?25l

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[EC] Wiren Board Embedded Controller

[EC] Firmware version: 1.2.1

[EC] Git info: 9758a72\_HEAD

[EC] Power on reason: Power supply on

[EC] RTC time: 2024-10-02 05:15:53

[EC] Board temperature: 25.9ВєC

[EC] Vin: 0.0V, USB Net: 0.1V, USB Console: 5.0V

[EC] Turning on the main CPU; all future debug messages will originate from the CPU.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

................

Entering firmware update mode.

Checking if ubootenv part is present

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

Can't find subimage 'ubootenv'

Extracting kernel

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

11523560 bytes read in 333 ms (33 MiB/s)

Description: Update kernel

Type: Kernel Image

Compression: uncompressed

Data Start: 0x42000300

Data Size: 11514600 Bytes = 11 MiB

Architecture: ARM

OS: Linux

Load Address: unavailable

Entry Point: unavailable

Hash algo: sha1

Hash value: 8485f8a5458f57a80cab6a345c1ee67f7e40ae25

## Verifying ... sha1+

Loading part 0 ... OK

Extracting DTB

## Loading FIT header to 0x43000000 ...

## Loading FIT strings to 0x43000028 ...

## Loading FIT struct to 0x43000100 ...

66325 bytes read in 24 ms (2.6 MiB/s)

Description: Update DTB

Type: Flat Device Tree

Compression: uncompressed

Data Start: 0x43000440

Data Size: 57045 Bytes = 55.7 KiB

Architecture: ARM

Hash algo: sha1

Hash value: 55ec41560f668ab075c7524503142abcbc96bed8

## Verifying ... sha1+

Loading part 0 ... OK

Kernel image @ 0x42000000 [ 0x000000 - 0xafb2e8 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fef000, end 49fffed4 ... OK

## DT property 'device-serial' not found! If the device was produced before 2023-08-07, please ignore it

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #2 SMP Wed Dec 27 07:38:59 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.x (A40i), factory bootlet

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 15 pages/cpu s31180 r8192 d22068 u61440

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 bootmode=update\_auto

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1003260K/1048576K available (7168K kernel code, 655K rwdata, 1540K rodata, 8192K init, 396K bss, 28932K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x32c/0x4f8 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000009] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000026] Switching to timer-based delay loop, resolution 41ns

[ 0.000390] Console: colour dummy device 80x30

[ 0.000456] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.000482] pid\_max: default: 32768 minimum: 301

[ 0.000669] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.000690] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.002796] CPU: Testing write buffer coherency: ok

[ 0.003374] /cpus/cpu@0 missing clock-frequency property

[ 0.003429] /cpus/cpu@1 missing clock-frequency property

[ 0.003476] /cpus/cpu@2 missing clock-frequency property

[ 0.003524] /cpus/cpu@3 missing clock-frequency property

[ 0.003547] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.004422] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.004607] rcu: Hierarchical SRCU implementation.

[ 0.005422] smp: Bringing up secondary CPUs ...

[ 0.016319] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.027316] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.038221] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.038346] smp: Brought up 1 node, 4 CPUs

[ 0.038379] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.038389] CPU: All CPU(s) started in HYP mode.

[ 0.038397] CPU: Virtualization extensions available.

[ 0.039157] devtmpfs: initialized

[ 0.059619] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.059934] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.059965] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.060979] pinctrl core: initialized pinctrl subsystem

[ 0.063652] NET: Registered protocol family 16

[ 0.065141] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.066412] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.067690] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.067751] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.125648] SCSI subsystem initialized

[ 0.125935] usbcore: registered new interface driver usbfs

[ 0.125999] usbcore: registered new interface driver hub

[ 0.126061] usbcore: registered new device driver usb

[ 0.129463] clocksource: Switched to clocksource arch\_sys\_counter

[ 0.129969] FS-Cache: Loaded

[ 0.130319] CacheFiles: Loaded

[ 0.144462] NET: Registered protocol family 2

[ 0.145672] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 0.145753] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 0.145892] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 0.146103] TCP: Hash tables configured (established 8192 bind 8192)

[ 0.146282] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.146365] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.146649] NET: Registered protocol family 1

[ 0.147610] RPC: Registered named UNIX socket transport module.

[ 0.147630] RPC: Registered udp transport module.

[ 0.147640] RPC: Registered tcp transport module.

[ 0.147649] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 0.878925] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 0.881502] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 0.895773] NFS: Registering the id\_resolver key type

[ 0.895831] Key type id\_resolver registered

[ 0.895843] Key type id\_legacy registered

[ 0.895896] ntfs: driver 2.1.32 [Flags: R/W].

[ 0.896673] bounce: pool size: 64 pages

[ 0.896730] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 250)

[ 0.896743] io scheduler mq-deadline registered

[ 0.896753] io scheduler kyber registered

[ 0.898634] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.031027] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.051960] loop: module loaded

[ 1.064357] libphy: Fixed MDIO Bus: probed

[ 1.064915] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.065626] libphy: sun4i\_mii\_bus: probed

[ 1.069862] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.069887] ehci-platform: EHCI generic platform driver

[ 1.070598] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.070633] ohci-platform: OHCI generic platform driver

[ 1.071285] usbcore: registered new interface driver cdc\_acm

[ 1.071296] cdc\_acm: USB Abstract Control Model driver for USB modems and ISDN adapters

[ 1.071358] usbcore: registered new interface driver usb-storage

[ 1.075321] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.075343] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.075679] i2c /dev entries driver

[ 1.080871] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.083947] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.084798] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.085193] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.085714] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.085918] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.086098] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.086245] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.086423] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.086580] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.086729] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.086896] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.090290] iio-rescale a1-volt: using raw+scale source channel

[ 1.090759] iio-rescale a2-volt: using raw+scale source channel

[ 1.091151] iio-rescale a3-volt: using raw+scale source channel

[ 1.091492] iio-rescale vin-volt: using raw+scale source channel

[ 1.094362] NET: Registered protocol family 10

[ 1.096135] Segment Routing with IPv6

[ 1.096290] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.097229] NET: Registered protocol family 17

[ 1.097350] Key type dns\_resolver registered

[ 1.097425] Registering SWP/SWPB emulation handler

[ 1.097532] registered taskstats version 1

[ 1.123852] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.129887] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.130448] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.133129] printk: console [ttyS0] disabled

[ 1.133400] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 1.985348] printk: console [ttyS0] enabled

[ 1.991460] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 1.998258] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 2.004913] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 2.012305] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.023062] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.032482] wbec-adc: Failed to locate of\_node [id: -2]

[ 2.037888] wbec-gpio: Failed to locate of\_node [id: -2]

[ 2.043363] wbec-gpio wbec-gpio.2.auto: No ngpios property in device tree

[ 2.050324] wbec-gpio: probe of wbec-gpio.2.auto failed with error -22

[ 2.063894] wbec-watchdog wbec-watchdog.3.auto: DMA mask not set

[ 2.070431] wbec-rtc: Failed to locate of\_node [id: -2]

[ 2.082868] wbec-pwrkey wbec-pwrkey.5.auto: DMA mask not set

[ 2.089066] input: wbec pwrkey as /devices/platform/soc/1c17000.spi/spi\_master/spi0/spi0.0/wbec-pwrkey.5.auto/input/input0

[ 2.107600] wbec-power wbec-power.6.auto: DMA mask not set

[ 2.113657] wbec spi0.0: WBEC device added

[ 2.118341] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.127767] libphy: sun4i\_mii\_bus: probed

[ 2.133402] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.140252] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.146866] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.156703] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.163520] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.170268] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.177772] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.188310] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.196461] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.203310] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.209790] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.217101] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.227454] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.249176] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 2.264418] input: axp20x-pek as /devices/platform/soc/1c2ac00.i2c/i2c-0/0-0034/axp221-pek/input/input1

[ 2.285644] vcc-3v3: supplied by regulator-dummy

[ 2.291621] vdd-cpu: supplied by regulator-dummy

[ 2.297280] vdd-sys: supplied by regulator-dummy

[ 2.302962] dcdc4: supplied by regulator-dummy

[ 2.307954] random: fast init done

[ 2.312436] vcc-dram: supplied by regulator-dummy

[ 2.317720] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 2.324705] vcc-gmac-phy: supplied by vcc-3v3

[ 2.330435] dc5ldo: supplied by vcc-dram

[ 2.335065] tv: Bringing 700000uV into 3300000-3300000uV

[ 2.341136] tv: supplied by regulator-dummy

[ 2.346031] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 2.352437] aldo2: supplied by regulator-dummy

[ 2.358249] avcc-pll: supplied by regulator-dummy

[ 2.363901] eldo1: supplied by regulator-dummy

[ 2.369225] eldo2: supplied by regulator-dummy

[ 2.374340] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 2.381086] vcc-pe: supplied by regulator-dummy

[ 2.386201] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 2.393050] vcc-sd-alt: supplied by regulator-dummy

[ 2.398618] dldo2: supplied by regulator-dummy

[ 2.403855] dldo3: supplied by regulator-dummy

[ 2.409021] dldo4: supplied by regulator-dummy

[ 2.413861] rtc\_ldo: supplied by regulator-dummy

[ 2.419235] ldo\_io0: supplied by regulator-dummy

[ 2.424657] ldo\_io1: supplied by regulator-dummy

[ 2.436005] axp20x-adc axp22x-adc: DMA mask not set

[ 2.449679] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 2.460582] axp20x-i2c 0-0034: AXP20X driver loaded

[ 4.559477] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 4.566022] rtc-pcf85063 2-0051: RTC chip is not present

[ 4.571472] rtc-pcf85063: probe of 2-0051 failed with error -110

[ 4.585008] lm75 2-0048: supply vs not found, using dummy regulator

[ 6.639479] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 6.646296] lm75: probe of 2-0048 failed with error -110

[ 6.674123] sun4i-pinctrl 1c20800.pinctrl: pin PB16 already requested by 1c17000.spi; cannot claim for i2c\_eeprom1

[ 6.684546] sun4i-pinctrl 1c20800.pinctrl: pin-48 (i2c\_eeprom1) status -22

[ 6.691436] sun4i-pinctrl 1c20800.pinctrl: could not request pin 48 (PB16) from group PB16 on device 1c20800.pinctrl

[ 6.698945] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 6.702045] i2c-gpio i2c\_eeprom1: Error applying setting, reverse things back

[ 6.718068] i2c-gpio: probe of i2c\_eeprom1 failed with error -22

[ 6.724354] sun4i-pinctrl 1c20800.pinctrl: pin PB14 already requested by 1c17000.spi; cannot claim for i2c\_eeprom2

[ 6.734721] sun4i-pinctrl 1c20800.pinctrl: pin-46 (i2c\_eeprom2) status -22

[ 6.741606] sun4i-pinctrl 1c20800.pinctrl: could not request pin 46 (PB14) from group PB14 on device 1c20800.pinctrl

[ 6.752217] i2c-gpio i2c\_eeprom2: Error applying setting, reverse things back

[ 6.759358] i2c-gpio: probe of i2c\_eeprom2 failed with error -22

[ 6.765643] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 6.773014] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 6.783200] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 6.791129] libphy: sun4i\_mii\_bus: probed

[ 6.890969] mmc0: new DDR MMC card at address 0001

[ 6.896463] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 6.901378] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 6.907610] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 6.913878] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (249:0)

[ 6.923536] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 6.933700] sun4i-emac 1c0b000.ethernet: using random MAC address 5a:8d:02:23:43:54

[ 6.943417] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 67 MAC: 5a:8d:02:23:43:54

[ 6.952264] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 6.958619] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 6.965448] ehci-platform 1c14000.usb: EHCI Host Controller

[ 6.971061] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 6.979077] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 7.009461] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 7.016277] hub 1-0:1.0: USB hub found

[ 7.020118] hub 1-0:1.0: 1 port detected

[ 7.024844] ehci-platform 1c19000.usb: EHCI Host Controller

[ 7.030463] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 7.038378] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 7.069440] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 7.076170] hub 2-0:1.0: USB hub found

[ 7.079968] hub 2-0:1.0: 1 port detected

[ 7.084647] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 7.090252] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 7.098200] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 7.130140] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 7.136843] hub 3-0:1.0: USB hub found

[ 7.140643] hub 3-0:1.0: 1 port detected

[ 7.239583] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 7.246214] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 7.254129] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 7.334123] hub 4-0:1.0: USB hub found

[ 7.337914] hub 4-0:1.0: 1 port detected

[ 7.342650] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 7.349277] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 7.357181] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 7.434048] hub 5-0:1.0: USB hub found

[ 7.437829] hub 5-0:1.0: 1 port detected

[ 7.442545] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 7.449176] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 7.456985] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 7.464174] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 7.509443] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 7.544058] hub 6-0:1.0: USB hub found

[ 7.547839] hub 6-0:1.0: 1 port detected

[ 7.552779] usb\_phy\_generic usb\_phy\_generic.7.auto: supply vcc not found, using dummy regulator

[ 7.563215] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.569621] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.576636] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.583025] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.589327] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 7.589407] of\_cfs\_init

[ 7.598999] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.600795] of\_cfs\_init: OK

[ 7.607116] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.625197] Freeing unused kernel memory: 8192K

[ 7.649613] Run /init as init process

mount: mounting none on /dev/pts failed: No such file or directo[ 7.683344] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

ry

[ 7.690435] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.731582] usb-storage 1-1:1.0: USB Mass Storage device detected

[ 7.738448] scsi host0: usb-storage 1-1:1.0

[ 7.744009] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.750429] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Run busybox watchdog for /dev/watchdog

Run busybox watchdog for /dev/watchdog0

Run busybox watchdog [ 7.969328] wbec-watchdog wbec-watchdog.3.auto: stop watchdog, but actually EC watchdog is always running, timeout set to 300 seconds

for /dev/watchdog1

Run busybox watchdog for /dev/watchdog2

watchdog: WDIOC\_SETTIMEOUT: Invalid argument

Boot mode: update\_auto

watchdog: can't open '/dev/watchdog': Device or resource busy

Board is WB7

[ 8.800947] scsi 0:0:0:0: Direct-Access SanDisk Ultra USB 3.0 1.00 PQ: 0 ANSI: 6

[ 8.810773] sd 0:0:0:0: [sda] 30031872 512-byte logical blocks: (15.4 GB/14.3 GiB)

[ 8.822350] sd 0:0:0:0: [sda] Write Protect is off

[ 8.829570] sd 0:0:0:0: [sda] Write cache: disabled, read cache: enabled, doesn't support DPO or FUA

[ 8.908720] sda: sda1

[ 8.921607] sd 0:0:0:0: [sda] Attached SCSI removable disk

[ 8.928553] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 8.935079] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Checking that no-one is using this disk right now ... OK

Disk /tmp/bigtmpfs/ramdisk.img: 803 MiB, 842006528 bytes, 1644544 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

>>> Created a new DOS disklabel with disk identifier 0x50467a9b.

/tmp/bigtmpfs/ramdisk.img1: Created a new partition 1 of type 'W95 FAT32' and of size 802 MiB.

/tmp/bigtmpfs/ramdisk.img2: Done.

New situation:

Disklabel type: dos

Disk identifier: 0x50467a9b

Device Boot Start End Sectors Size Id Type

/tmp/bigtmpfs/ramdisk.img1 2048 1644543 1642496 802M b W95 FAT32

The partition table has been altered.

Syncing disks.

mkfs.fat 4.2 (2021-01-31)

Activate Mass Storage device

[ 12.479725] Mass Storage Function, version: 2009/09/11

[ 12.484888] LUN: removable file: (no medium)

[ 12.489274] LUN: file: /tmp/bigtmpfs/ramdisk.img

[ 12.493905] Number of LUNs=1

[ 12.496950] g\_mass\_storage gadget: Mass Storage Gadget, version: 2009/09/11

[ 12.503925] g\_mass\_storage gadget: g\_mass\_storage ready

[ 12.514818] phy phy-1c13400.phy.0: Changing dr\_mode to 1

Load modules for USB to work

Looking for update .fit on /dev/sda...

[ 12.565945] exFAT-fs (sda): invalid fs\_name

[ 12.570211] exFAT-fs (sda): failed to read boot sector

[ 12.575345] exFAT-fs (sda): failed to recognize exfat type

Looking for update .fit on /dev/sda1...

[ 12.607114] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.

Will use wb\_update\_FACTORYRESET.fit from USB Flash Drive

##############################################################################

FACTORY RESET REQUESTED

This WILL destroy ALL YOUR DATA: configuration, scripts,

files in home directory!

If you are ABSOLUTELY SURE that you want to reset Wiren Board

to factory condition, hold the FW button for 4 seconds.

If you will not do it in 10 seconds, the controller will reboot

without firmware update.

If you want to perform a regular firmware update, rename

FIT file to "wbX\_update.fit" without "factory-reset" suffix.

##############################################################################

....

Factory reset is confirmed!

===============================================================================

Thu Jan 1 00:00:18 UTC 1970: started update from /disk/wb\_update\_FACTORYRESET.fit

===============================================================================

Description: WirenBoard firmware update

Compatible device: wirenboard,wirenboard-720

Firmware version: 202409041832

Firmware compatible: +single-rootfs +fit-factory-reset +force-repartition +repartition-ramsize-fix +update-from-cloud

Release name: wb-2407

Release suite: stable

Release target: wb7/bullseye

Release repo prefix:

Time of creation: Wed Sep 4 18:35:00 UTC 2024

===============================================================================

>>> Checking SHA1 hash of install

PROGRESS: 0%

PROGRESS: 0%

>>> SHA1 hash of install ok

>>> Wiping data partition (factory reset)

[ 19.111388] EXT4-fs (mmcblk0p6): recovery complete

[ 19.116418] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00180333 s, 9.1 MB/s

>>> Firmware seems to be compatible with this controller

>>> Extracting install script

>>> Running install script

>>> Console logging enabled; tempfile /tmp/tmp.1uVQJe, final file /disk/wb-console.log will be written on exit

>>> Extend tmpfs size to whole RAM

>>> Remount tmpfs in /tmp with size=1003M

>>> Maybe update factoryreset.fit to fix tmpfs size issue at 512M RAM (with emmc update)

[ 22.697155] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Factoryreset.fit already includes a fix for the 512MB RAM repartition issue (repartition-ramsize-fix compatibility)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.002188 s, 7.5 MB/s

>>> Firmware seems to be compatible with this controller

>>> Wiping data partition (factory reset)

[ 26.005584] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

[ 26.919972] random: crng init done

>>> Checking SHA1 hash of rootfs

PROGRESS: 0%

PROGRESS: 8%

PROGRESS: 16%

PROGRESS: 25%

PROGRESS: 33%

PROGRESS: 41%

PROGRESS: 49%[ 38.239515] vcc-gmac-phy: disabling

[ 38.243412] dc5ldo: disabling

[ 38.246941] dldo4: disabling

[ 38.250177] vdd-sd-power: disabling

[ 38.253673] vcc-sd: disabling

PROGRESS: 57%

PROGRESS: 65%

PROGRESS: 73%

PROGRESS: 82%

PROGRESS: 91%

PROGRESS: 99%

PROGRESS: 100%

>>> SHA1 hash of rootfs ok

>>> rootfs is valid, installing firmware update

>>> Partition table seems to be changed already, continue

>>> rootfs enlarged!

>>> Configuring environment for repartitioned eMMC

>>> Will install to /dev/mmcblk0p2

[ 44.119158] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

!!! Unable to mount root filesystem

[ 45.190632] reboot: Restarting system

[EC] Reboot request, reset power.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

................................................

326 bytes read in 2 ms (159.2 KiB/s)

Importing environment from 0x42000000...

Checking if uenvcmd is set ...

test - minimal test like /bin/sh

Usage:

test [args..]

Running default loadzimage ...

6479656 bytes read in 180 ms (34.3 MiB/s)

MMC read: dev # 1, block # 2016, count 32 ... 32 blocks read: OK

Reading overlays list from eMMC

Reading factory fdt name from eMMC

Loading factory fdt sun8i-r40-wirenboard742

57723 bytes read in 6 ms (9.2 MiB/s)

254 bytes read in 2 ms (124 KiB/s)

Applying DT overlay temp-industrial

Applying extra overlay

Booting from mmc ...

Kernel image @ 0x42000000 [ 0x000000 - 0x62df28 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fdd000, end 49ffffff ... OK

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #1 SMP Wed Dec 27 07:33:31 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.4.2 (A40i)

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 20 pages/cpu s50444 r8192 d23284 u81920

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 root=/dev/mmcblk0p2 rootwait ro

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1004488K/1048576K available (10240K kernel code, 1478K rwdata, 3228K rodata, 1024K init, 306K bss, 27704K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] ftrace: allocating 31878 entries in 63 pages

[ 0.000000] ftrace: allocated 63 pages with 6 groups

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU event tracing is enabled.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] Rude variant of Tasks RCU enabled.

[ 0.000000] Tracing variant of Tasks RCU enabled.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x660/0x844 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000008] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000024] Switching to timer-based delay loop, resolution 41ns

[ 0.000402] Console: colour dummy device 80x30

[ 0.000905] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.001069] pid\_max: default: 32768 minimum: 301

[ 0.001851] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.001922] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.003907] CPU: Testing write buffer coherency: ok

[ 0.004448] /cpus/cpu@0 missing clock-frequency property

[ 0.004507] /cpus/cpu@1 missing clock-frequency property

[ 0.004563] /cpus/cpu@2 missing clock-frequency property

[ 0.004624] /cpus/cpu@3 missing clock-frequency property

[ 0.004646] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.006189] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.007090] rcu: Hierarchical SRCU implementation.

[ 0.008873] smp: Bringing up secondary CPUs ...

[ 0.020525] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.032055] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.043380] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.043597] smp: Brought up 1 node, 4 CPUs

[ 0.043638] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.043653] CPU: All CPU(s) started in HYP mode.

[ 0.043666] CPU: Virtualization extensions available.

[ 0.045998] devtmpfs: initialized

[ 0.069839] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.070224] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.070268] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.071378] pinctrl core: initialized pinctrl subsystem

[ 0.074997] NET: Registered protocol family 16

[ 0.079752] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.081439] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.082035] No ATAGs?

[ 0.082282] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.082300] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.178170] SCSI subsystem initialized

[ 0.178566] usbcore: registered new interface driver usbfs

[ 0.178661] usbcore: registered new interface driver hub

[ 0.178762] usbcore: registered new device driver usb

[ 0.179295] mc: Linux media interface: v0.10

[ 0.179359] videodev: Linux video capture interface: v2.00

[ 0.179454] pps\_core: LinuxPPS API ver. 1 registered

[ 0.179473] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>

[ 0.179509] PTP clock support registered

[ 0.179879] Advanced Linux Sound Architecture Driver Initialized.

[ 0.182281] clocksource: Switched to clocksource arch\_sys\_counter

[ 1.419708] NET: Registered protocol family 2

[ 1.421740] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 1.421883] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 1.422103] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 1.422482] TCP: Hash tables configured (established 8192 bind 8192)

[ 1.422790] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 1.422896] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 1.423288] NET: Registered protocol family 1

[ 1.424329] RPC: Registered named UNIX socket transport module.

[ 1.424360] RPC: Registered udp transport module.

[ 1.424378] RPC: Registered tcp transport module.

[ 1.424394] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 1.427545] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 1.430118] Initialise system trusted keyrings

[ 1.430467] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 1.446707] NFS: Registering the id\_resolver key type

[ 1.446773] Key type id\_resolver registered

[ 1.446791] Key type id\_legacy registered

[ 1.633023] Key type asymmetric registered

[ 1.633052] Asymmetric key parser 'x509' registered

[ 1.633226] bounce: pool size: 64 pages

[ 1.633309] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 247)

[ 1.633329] io scheduler mq-deadline registered

[ 1.633343] io scheduler kyber registered

[ 1.636403] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.681166] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.708246] brd: module loaded

[ 1.728579] loop: module loaded

[ 1.739197] libphy: Fixed MDIO Bus: probed

[ 1.741099] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.741900] libphy: sun4i\_mii\_bus: probed

[ 1.745954] CAN device driver interface

[ 1.750043] PPP generic driver version 2.4.2

[ 1.750500] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.750532] ehci-platform: EHCI generic platform driver

[ 1.752123] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.752166] ohci-platform: OHCI generic platform driver

[ 1.754040] usbcore: registered new interface driver usb-storage

[ 1.754520] usbcore: registered new interface driver usbserial\_generic

[ 1.754660] usbserial: USB Serial support registered for generic

[ 1.758194] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.758221] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.758672] i2c /dev entries driver

[ 1.771801] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.777333] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.778438] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.778979] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.779602] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.779871] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.780118] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.780307] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.780551] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.780768] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.781796] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.782716] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.785505] usbcore: registered new interface driver usbhid

[ 1.785528] usbhid: USB HID core driver

[ 1.796446] Initializing XFRM netlink socket

[ 1.797455] NET: Registered protocol family 10

[ 1.800217] Segment Routing with IPv6

[ 1.800409] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.801406] NET: Registered protocol family 17

[ 1.801445] can: controller area network core

[ 1.801578] NET: Registered protocol family 29

[ 1.801597] can: raw protocol

[ 1.801615] can: broadcast manager protocol

[ 1.801640] can: netlink gateway - max\_hops=1

[ 1.802176] Key type dns\_resolver registered

[ 1.802341] Registering SWP/SWPB emulation handler

[ 1.802477] registered taskstats version 1

[ 1.802545] Loading compiled-in X.509 certificates

[ 1.840073] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.848961] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.850173] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.856711] printk: console [ttyS0] disabled

[ 1.856903] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 2.799997] printk: console [ttyS0] enabled

[ 2.805778] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 2.812640] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 2.819298] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 2.826696] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.837425] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.849574] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.859088] libphy: sun4i\_mii\_bus: probed

[ 2.864905] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.871714] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.878368] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.888693] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.895646] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.902357] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.909854] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.920393] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.930067] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.936914] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.943377] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.950714] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.961184] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.981171] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 3.000611] vcc-3v3: supplied by regulator-dummy

[ 3.006922] vdd-cpu: supplied by regulator-dummy

[ 3.012893] vdd-sys: supplied by regulator-dummy

[ 3.018702] dcdc4: supplied by regulator-dummy

[ 3.024438] vcc-dram: supplied by regulator-dummy

[ 3.029376] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 3.036433] vcc-gmac-phy: supplied by vcc-3v3

[ 3.042055] dc5ldo: supplied by vcc-dram

[ 3.046702] tv: Bringing 700000uV into 3300000-3300000uV

[ 3.052754] tv: supplied by regulator-dummy

[ 3.057600] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 3.064039] aldo2: supplied by regulator-dummy

[ 3.070919] avcc-pll: supplied by regulator-dummy

[ 3.077728] eldo1: supplied by regulator-dummy

[ 3.083746] eldo2: supplied by regulator-dummy

[ 3.089023] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 3.096058] vcc-pe: supplied by regulator-dummy

[ 3.101298] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 3.109609] vcc-sd-alt: supplied by regulator-dummy

[ 3.116212] dldo2: supplied by regulator-dummy

[ 3.122150] dldo3: supplied by regulator-dummy

[ 3.127979] dldo4: supplied by regulator-dummy

[ 3.133362] rtc\_ldo: supplied by regulator-dummy

[ 3.139156] ldo\_io0: supplied by regulator-dummy

[ 3.144897] ldo\_io1: supplied by regulator-dummy

[ 3.150541] axp20x-adc axp22x-adc: DMA mask not set

[ 3.155956] random: fast init done

[ 3.161066] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 3.172470] axp20x-i2c 0-0034: AXP20X driver loaded

[ 3.235903] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 3.243672] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 3.254050] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 3.261987] libphy: sun4i\_mii\_bus: probed

[ 3.267452] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 3.399940] mmc0: new DDR MMC card at address 0001

[ 3.405694] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 3.405869] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 66 MAC: 00:85:01:01:5f:29

[ 3.410623] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 3.419543] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 3.424840] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 3.430798] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 3.437027] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (246:0)

[ 3.443151] dwmac-sun8i 1c50000.ethernet: PTP uses main clock

[ 3.456200] dwmac-sun8i 1c50000.ethernet: No HW DMA feature register supported

[ 3.463475] dwmac-sun8i 1c50000.ethernet: RX Checksum Offload Engine supported

[ 3.470713] dwmac-sun8i 1c50000.ethernet: COE Type 2

[ 3.475709] dwmac-sun8i 1c50000.ethernet: TX Checksum insertion supported

[ 3.482510] dwmac-sun8i 1c50000.ethernet: Normal descriptors

[ 3.488167] dwmac-sun8i 1c50000.ethernet: Chain mode enabled

[ 3.494528] libphy: stmmac: probed

[ 3.498482] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 3.764736] ehci-platform 1c14000.usb: EHCI Host Controller

[ 3.770366] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 3.778527] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 3.812224] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 3.819319] hub 1-0:1.0: USB hub found

[ 3.823181] hub 1-0:1.0: 1 port detected

[ 3.828332] ehci-platform 1c19000.usb: EHCI Host Controller

[ 3.833961] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 3.841946] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 3.872222] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 3.879226] hub 2-0:1.0: USB hub found

[ 3.883056] hub 2-0:1.0: 1 port detected

[ 3.888159] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 3.893778] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 3.901738] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 3.932612] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 3.939562] hub 3-0:1.0: USB hub found

[ 3.943388] hub 3-0:1.0: 1 port detected

[ 4.042430] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 4.049066] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 4.057042] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 4.137106] hub 4-0:1.0: USB hub found

[ 4.140911] hub 4-0:1.0: 1 port detected

[ 4.146022] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 4.152678] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 4.160617] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 4.237118] hub 5-0:1.0: USB hub found

[ 4.240946] hub 5-0:1.0: 1 port detected

[ 4.246175] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 4.252852] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 4.260645] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 4.267915] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 4.312225] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 4.347085] hub 6-0:1.0: USB hub found

[ 4.350888] hub 6-0:1.0: 1 port detected

[ 4.363947] of\_cfs\_init

[ 4.366551] of\_cfs\_init: OK

[ 4.370062] ALSA device list:

[ 4.373098] No soundcards found.

[ 4.384128] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 4.395742] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

[ 4.405586] VFS: Cannot open root device "mmcblk0p2" or unknown-block(179,2): error -74

[ 4.413643] Please append a correct "root=" boot option; here are the available partitions:

[ 4.422012] 0100 65536 ram0

[ 4.422019] (driver?)

[ 4.428165] 0101 65536 ram1

[ 4.428171] (driver?)

[ 4.434303] 0102 65536 ram2

[ 4.434309] (driver?)

[ 4.440426] 0103 65536 ram3

[ 4.440432] (driver?)

[ 4.446565] 0104 65536 ram4

[ 4.446570] (driver?)

[ 4.452713] 0105 65536 ram5

[ 4.452719] (driver?)

[ 4.458825] 0106 65536 ram6

[ 4.458830] (driver?)

[ 4.464961] 0107 65536 ram7

[ 4.464967] (driver?)

[ 4.471071] 0108 65536 ram8

[ 4.471077] (driver?)

[ 4.477198] 0109 65536 ram9

[ 4.477203] (driver?)

[ 4.483319] 010a 65536 ram10

[ 4.483325] (driver?)

[ 4.489517] 010b 65536 ram11

[ 4.489522] (driver?)

[ 4.495727] 010c 65536 ram12

[ 4.495732] (driver?)

[ 4.501923] 010d 65536 ram13

[ 4.501928] (driver?)

[ 4.508131] 010e 65536 ram14

[ 4.508137] (driver?)

[ 4.514340] 010f 65536 ram15

[ 4.514345] (driver?)

[ 4.520547] b300 7634944 mmcblk0

[ 4.520554] driver: mmcblk

[ 4.527364] b301 16384 mmcblk0p1 863286c1-01

[ 4.527370]

[ 4.534180] b302 2097152 mmcblk0p2 863286c1-02

[ 4.534186]

[ 4.540981] b303 2048 mmcblk0p3 863286c1-03

[ 4.540986]

[ 4.547795] b304 1 mmcblk0p4

[ 4.547800]

[ 4.553657] b305 262144 mmcblk0p5 863286c1-05

[ 4.553663]

[ 4.560459] b306 5254144 mmcblk0p6 863286c1-06

[ 4.560464]

[ 4.567289] Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(179,2)

[ 4.575718] CPU: 0 PID: 1 Comm: swapper/0 Not tainted 5.10.35-wb159 #1

[ 4.582234] Hardware name: Allwinner sun8i Family

[ 4.586931] Backtrace:

[ 4.589398] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.596960] r7:ffffffff r6:60000093 r5:00000000 r4:c10e4998

[ 4.602617] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.609834] [<c0a08d7c>] (dump\_stack) from [<c0a059c4>] (panic+0x12c/0x358)

[ 4.616790] r9:c0d36fb8 r8:00000000 r7:c0d36f24 r6:c100baf8 r5:00000000 r4:c11725d8

[ 4.624530] [<c0a05898>] (panic) from [<c0f01d54>] (mount\_block\_root+0x1d4/0x258)

[ 4.632003] r3:00000000 r2:00000000 r1:c1535eac r0:c0d36f24

[ 4.637654] r7:c0f57d5c

[ 4.640189] [<c0f01b80>] (mount\_block\_root) from [<c0f01ef4>] (mount\_root+0x11c/0x144)

[ 4.648098] r10:c0e25278 r9:c0f57d58 r8:c1172000 r7:c0f57d38 r6:00000008 r5:c0f57d6d

[ 4.655914] r4:00000002

[ 4.658450] [<c0f01dd8>] (mount\_root) from [<c0f0207c>] (prepare\_namespace+0x160/0x19c)

[ 4.666444] r7:c0f57d38 r6:00000008 r5:c0f57d6d r4:c1172038

[ 4.672100] [<c0f01f1c>] (prepare\_namespace) from [<c0f01858>] (kernel\_init\_freeable+0x298/0x2ac)

[ 4.680959] r5:c16623c0 r4:c1008b50

[ 4.684535] [<c0f015c0>] (kernel\_init\_freeable) from [<c0a0f870>] (kernel\_init+0x18/0x12c)

[ 4.692790] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c0a0f858

[ 4.700607] r4:00000000

[ 4.703143] [<c0a0f858>] (kernel\_init) from [<c0100114>] (ret\_from\_fork+0x14/0x20)

[ 4.710701] Exception stack(0xc1535fb0 to 0xc1535ff8)

[ 4.715748] 5fa0: 00000000 00000000 00000000 00000000

[ 4.723915] 5fc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

[ 4.732081] 5fe0: 00000000 00000000 00000000 00000000 00000013 00000000

[ 4.738687] r5:c0a0f858 r4:00000000

[ 4.742269] CPU2: stopping

[ 4.744977] CPU: 2 PID: 0 Comm: swapper/2 Not tainted 5.10.35-wb159 #1

[ 4.751494] Hardware name: Allwinner sun8i Family

[ 4.756189] Backtrace:

[ 4.758642] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.766202] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 4.771858] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.779076] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 4.786725] r9:c1571f30 r8:c14e0000 r7:00000001 r6:00000002 r5:c115e300 r4:c1172438

[ 4.794460] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 4.802022] r9:c1571f30 r8:c14e0000 r7:00000001 r6:2e71c000 r5:c145cf40 r4:00000014

[ 4.809760] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 4.818971] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 4.828783] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 4.834439] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 4.842780] r9:c1571f30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 4.850515] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 4.857987] Exception stack(0xc1571f30 to 0xc1571f78)

[ 4.863032] 1f20: 00000000 00000c54 ef6ba1c4 c011b2c0

[ 4.871200] 1f40: c115f080 00000002 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c1571f8c

[ 4.879368] 1f60: c1571f90 c1571f80 c01087c4 c01087c8 60000013 ffffffff

[ 4.885975] r9:c1570000 r8:c115dca9 r7:c1571f64 r6:ffffffff r5:60000013 r4:c01087c8

[ 4.893715] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 4.901887] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 4.909611] r5:00000002 r4:c1570000

[ 4.913186] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 4.920748] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000002 r4:00000091

[ 4.928484] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 4.937521] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 4.944906] r5:00000051 r4:4156406a

[ 4.948477] CPU1: stopping

[ 4.951187] CPU: 1 PID: 0 Comm: swapper/1 Not tainted 5.10.35-wb159 #1

[ 4.957704] Hardware name: Allwinner sun8i Family

[ 4.962400] Backtrace:

[ 4.964853] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 4.972413] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 4.978069] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 4.985286] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 4.992935] r9:c156ff30 r8:c14e0000 r7:00000001 r6:00000001 r5:c115e300 r4:c1172438

[ 5.000670] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 5.008232] r9:c156ff30 r8:c14e0000 r7:00000001 r6:2e708000 r5:c145cf40 r4:00000014

[ 5.015968] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 5.025178] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 5.034991] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 5.040646] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 5.048988] r9:c156ff30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 5.056722] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 5.064192] Exception stack(0xc156ff30 to 0xc156ff78)

[ 5.069238] ff20: 00000000 00000dac ef6a61c4 c011b2c0

[ 5.077406] ff40: c115f080 00000001 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c156ff8c

[ 5.085572] ff60: c156ff90 c156ff80 c01087c4 c01087c8 60000013 ffffffff

[ 5.092180] r9:c156e000 r8:c115dca9 r7:c156ff64 r6:ffffffff r5:60000013 r4:c01087c8

[ 5.099917] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 5.108087] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 5.115819] r5:00000001 r4:c156e000

[ 5.119394] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 5.126956] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000001 r4:00000091

[ 5.134692] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 5.143727] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 5.151112] r5:00000051 r4:4156406a

[ 5.154683] CPU3: stopping

[ 5.157392] CPU: 3 PID: 0 Comm: swapper/3 Not tainted 5.10.35-wb159 #1

[ 5.163908] Hardware name: Allwinner sun8i Family

[ 5.168604] Backtrace:

[ 5.171056] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 5.178616] r7:ffffffff r6:60000193 r5:00000000 r4:c10e4998

[ 5.184273] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 5.191489] [<c0a08d7c>] (dump\_stack) from [<c010edf8>] (do\_handle\_IPI+0x30c/0x344)

[ 5.199138] r9:c1573f30 r8:c14e0000 r7:00000001 r6:00000003 r5:c115e300 r4:c1172438

[ 5.206874] [<c010eaec>] (do\_handle\_IPI) from [<c010ee58>] (ipi\_handler+0x28/0x30)

[ 5.214436] r9:c1573f30 r8:c14e0000 r7:00000001 r6:2e730000 r5:c145cf40 r4:00000014

[ 5.222172] [<c010ee30>] (ipi\_handler) from [<c019455c>] (handle\_percpu\_devid\_fasteoi\_ipi+0x90/0x160)

[ 5.231382] [<c01944cc>] (handle\_percpu\_devid\_fasteoi\_ipi) from [<c018d930>] (\_\_handle\_domain\_irq+0x8c/0xe0)

[ 5.241194] r7:00000001 r6:00000000 r5:00000000 r4:c0f9cc34

[ 5.246848] [<c018d8a4>] (\_\_handle\_domain\_irq) from [<c010149c>] (gic\_handle\_irq+0x8c/0xa0)

[ 5.255191] r9:c1573f30 r8:f080200c r7:c0f9cc40 r6:f0802000 r5:c10e4ae8 r4:c1005924

[ 5.262926] [<c0101410>] (gic\_handle\_irq) from [<c0100af0>] (\_\_irq\_svc+0x70/0x98)

[ 5.270396] Exception stack(0xc1573f30 to 0xc1573f78)

[ 5.275442] 3f20: 00000000 00000f98 ef6ce1c4 c011b2c0

[ 5.283610] 3f40: c115f080 00000003 c1004f54 c1004f9c c115dca9 c0d40e84 00000000 c1573f8c

[ 5.291777] 3f60: c1573f90 c1573f80 c01087c4 c01087c8 60000013 ffffffff

[ 5.298385] r9:c1572000 r8:c115dca9 r7:c1573f64 r6:ffffffff r5:60000013 r4:c01087c8

[ 5.306122] [<c0108780>] (arch\_cpu\_idle) from [<c0a16740>] (default\_idle\_call+0x50/0x11c)

[ 5.314293] [<c0a166f0>] (default\_idle\_call) from [<c015f0a8>] (do\_idle+0x10c/0x16c)

[ 5.322024] r5:00000003 r4:c1572000

[ 5.325599] [<c015ef9c>] (do\_idle) from [<c015f3e8>] (cpu\_startup\_entry+0x28/0x30)

[ 5.333161] r9:410fc075 r8:4000406a r7:c1172448 r6:10c0387d r5:00000003 r4:00000091

[ 5.340897] [<c015f3c0>] (cpu\_startup\_entry) from [<c010f3ec>] (secondary\_start\_kernel+0x164/0x170)

[ 5.349932] [<c010f288>] (secondary\_start\_kernel) from [<401019ec>] (0x401019ec)

[ 5.357317] r5:00000051 r4:4156406a

[ 5.360898] Rebooting in 10 seconds..

[ 15.375150] ------------[ cut here ]------------

[ 15.379772] WARNING: CPU: 0 PID: 13 at kernel/sched/core.c:1988 set\_task\_cpu+0x230/0x2a4

[ 15.387850] Modules linked in:

[ 15.390906] CPU: 0 PID: 13 Comm: migration/0 Not tainted 5.10.35-wb159 #1

[ 15.397682] Hardware name: Allwinner sun8i Family

[ 15.402378] Backtrace:

[ 15.404828] [<c0a05218>] (dump\_backtrace) from [<c0a054c0>] (show\_stack+0x20/0x24)

[ 15.412389] r7:ffffffff r6:60000093 r5:00000000 r4:c10e4998

[ 15.418045] [<c0a054a0>] (show\_stack) from [<c0a08e30>] (dump\_stack+0xb4/0xd4)

[ 15.425264] [<c0a08d7c>] (dump\_stack) from [<c0123c50>] (\_\_warn+0xfc/0x158)

[ 15.432220] r9:0000065c r8:00000009 r7:000007c4 r6:00000009 r5:c01591a0 r4:c0d40684

[ 15.439956] [<c0123b54>] (\_\_warn) from [<c0a05c60>] (warn\_slowpath\_fmt+0x70/0xcc)

[ 15.447429] r7:c01591a0 r6:000007c4 r5:c0d40684 r4:00000000

[ 15.453084] [<c0a05bf4>] (warn\_slowpath\_fmt) from [<c01591a0>] (set\_task\_cpu+0x230/0x2a4)

[ 15.461251] r8:c1540000 r7:2e71c000 r6:c1004f54 r5:00000002 r4:c1540000

[ 15.467948] [<c0158f70>] (set\_task\_cpu) from [<c0163fd4>] (active\_load\_balance\_cpu\_stop+0x1a4/0x280)

[ 15.477069] r7:2e71c000 r6:c0f9d940 r5:ef691940 r4:c1514100

[ 15.482727] [<c0163e30>] (active\_load\_balance\_cpu\_stop) from [<c01f36a4>] (cpu\_stopper\_thread+0x80/0x148)

[ 15.492283] r10:00000000 r9:ef68ba98 r8:ef68baa0 r7:ef691940 r6:c0163e30 r5:c156c000

[ 15.500100] r4:ef68ba94

[ 15.502637] [<c01f3624>] (cpu\_stopper\_thread) from [<c01505f8>] (smpboot\_thread\_fn+0xec/0x1ac)

[ 15.511239] r10:00000000 r9:00000002 r8:ffffe000 r7:c1085478 r6:00000001 r5:c156c000

[ 15.519055] r4:c14f1cc0

[ 15.521592] [<c015050c>] (smpboot\_thread\_fn) from [<c014a710>] (kthread+0x168/0x16c)

[ 15.529328] r10:c1535de4 r9:c14f1cc0 r8:c015050c r7:c156c000 r6:00000000 r5:c14f1d80

[ 15.537146] r4:c14f1dc0

[ 15.539680] [<c014a5a8>] (kthread) from [<c0100114>] (ret\_from\_fork+0x14/0x20)

[ 15.546892] Exception stack(0xc156dfb0 to 0xc156dff8)

[ 15.551938] dfa0: 00000000 00000000 00000000 00000000

[ 15.560105] dfc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

[ 15.568272] dfe0: 00000000 00000000 00000000 00000000 00000013 00000000

[ 15.574880] r10:00000000 r9:00000000 r8:00000000 r7:00000000 r6:00000000 r5:c014a5a8

[ 15.582697] r4:c14f1d80

[ 15.585227] ---[ end trace 4053c6561b9c0335 ]---

[EC] 3.3V is lost, try to reset power

[EC] Enable WBMZ to prevent power loss under load

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s

## Info: input data size = 4281 = 0x10B9

switch to partitions #0, OK

mmc1(part 0) is current device

eMMC found on device 1

Press FW button to enter firmware update mode

.......

Entering firmware update mode.

Checking if ubootenv part is present

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

Can't find subimage 'ubootenv'

Extracting kernel

## Loading FIT header to 0x42000000 ...

## Loading FIT strings to 0x42000028 ...

## Loading FIT struct to 0x42000100 ...

11523560 bytes read in 332 ms (33.1 MiB/s)

Description: Update kernel

Type: Kernel Image

Compression: uncompressed

Data Start: 0x42000300

Data Size: 11514600 Bytes = 11 MiB

Architecture: ARM

OS: Linux

Load Address: unavailable

Entry Point: unavailable

Hash algo: sha1

Hash value: 8485f8a5458f57a80cab6a345c1ee67f7e40ae25

## Verifying ... sha1+

Loading part 0 ... OK

Extracting DTB

## Loading FIT header to 0x43000000 ...

## Loading FIT strings to 0x43000028 ...

## Loading FIT struct to 0x43000100 ...

66325 bytes read in 24 ms (2.6 MiB/s)

Description: Update DTB

Type: Flat Device Tree

Compression: uncompressed

Data Start: 0x43000440

Data Size: 57045 Bytes = 55.7 KiB

Architecture: ARM

Hash algo: sha1

Hash value: 55ec41560f668ab075c7524503142abcbc96bed8

## Verifying ... sha1+

Loading part 0 ... OK

Kernel image @ 0x42000000 [ 0x000000 - 0xafb2e8 ]

## Flattened Device Tree blob at 43000000

Booting using the fdt blob at 0x43000000

Loading Device Tree to 49fef000, end 49fffed4 ... OK

## DT property 'device-serial' not found! If the device was produced before 2023-08-07, please ignore it

Starting kernel ...

[ 0.000000] Booting Linux on physical CPU 0x0

[ 0.000000] Linux version 5.10.35-wb159 (root@wbdevenv) (arm-linux-gnueabihf-gcc (Debian 10.2.1-6) 10.2.1 20210110, GNU ld (GNU Binutils for Debian) 2.35.2) #2 SMP Wed Dec 27 07:38:59 UTC 2023

[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7), cr=10c5387d

[ 0.000000] CPU: div instructions available: patching division code

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

[ 0.000000] OF: fdt: Machine model: Wiren Board rev. 7.x (A40i), factory bootlet

[ 0.000000] Memory policy: Data cache writealloc

[ 0.000000] cma: Reserved 16 MiB at 0x7ec00000

[ 0.000000] Zone ranges:

[ 0.000000] Normal [mem 0x0000000040000000-0x000000006fffffff]

[ 0.000000] HighMem [mem 0x0000000070000000-0x000000007fffffff]

[ 0.000000] Movable zone start for each node

[ 0.000000] Early memory node ranges

[ 0.000000] node 0: [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] Initmem setup node 0 [mem 0x0000000040000000-0x000000007fffffff]

[ 0.000000] psci: probing for conduit method from DT.

[ 0.000000] psci: Using PSCI v0.1 Function IDs from DT

[ 0.000000] percpu: Embedded 15 pages/cpu s31180 r8192 d22068 u61440

[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 260416

[ 0.000000] Kernel command line: console=ttyS0,115200 bootmode=update\_auto

[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes, linear)

[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes, linear)

[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off

[ 0.000000] Memory: 1003260K/1048576K available (7168K kernel code, 655K rwdata, 1540K rodata, 8192K init, 396K bss, 28932K reserved, 16384K cma-reserved, 245748K highmem)

[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1

[ 0.000000] rcu: Hierarchical RCU implementation.

[ 0.000000] rcu: RCU restricting CPUs from NR\_CPUS=8 to nr\_cpu\_ids=4.

[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 10 jiffies.

[ 0.000000] rcu: Adjusting geometry for rcu\_fanout\_leaf=16, nr\_cpu\_ids=4

[ 0.000000] NR\_IRQS: 16, nr\_irqs: 16, preallocated irqs: 16

[ 0.000000] GIC: Using split EOI/Deactivate mode

[ 0.000000] random: get\_random\_bytes called from start\_kernel+0x32c/0x4f8 with crng\_init=0

[ 0.000000] clocksource: timer: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 79635851949 ns

[ 0.000000] arch\_timer: cp15 timer(s) running at 24.00MHz (phys).

[ 0.000000] clocksource: arch\_sys\_counter: mask: 0xffffffffffffff max\_cycles: 0x588fe9dc0, max\_idle\_ns: 440795202592 ns

[ 0.000010] sched\_clock: 56 bits at 24MHz, resolution 41ns, wraps every 4398046511097ns

[ 0.000031] Switching to timer-based delay loop, resolution 41ns

[ 0.000454] Console: colour dummy device 80x30

[ 0.000524] Calibrating delay loop (skipped), value calculated using timer frequency.. 48.00 BogoMIPS (lpj=240000)

[ 0.000552] pid\_max: default: 32768 minimum: 301

[ 0.000760] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.000783] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes, linear)

[ 0.001832] CPU: Testing write buffer coherency: ok

[ 0.002189] /cpus/cpu@0 missing clock-frequency property

[ 0.002221] /cpus/cpu@1 missing clock-frequency property

[ 0.002246] /cpus/cpu@2 missing clock-frequency property

[ 0.002271] /cpus/cpu@3 missing clock-frequency property

[ 0.002536] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000

[ 0.004205] Setting up static identity map for 0x40100000 - 0x40100060

[ 0.004457] rcu: Hierarchical SRCU implementation.

[ 0.005429] smp: Bringing up secondary CPUs ...

[ 0.016432] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001

[ 0.027528] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002

[ 0.038514] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003

[ 0.038662] smp: Brought up 1 node, 4 CPUs

[ 0.038697] SMP: Total of 4 processors activated (192.00 BogoMIPS).

[ 0.038708] CPU: All CPU(s) started in HYP mode.

[ 0.038717] CPU: Virtualization extensions available.

[ 0.039512] devtmpfs: initialized

[ 0.059543] VFP support v0.3: implementor 41 architecture 2 part 30 variant 7 rev 5

[ 0.059924] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, max\_idle\_ns: 19112604462750000 ns

[ 0.059961] futex hash table entries: 1024 (order: 4, 65536 bytes, linear)

[ 0.061093] pinctrl core: initialized pinctrl subsystem

[ 0.062386] NET: Registered protocol family 16

[ 0.065065] DMA: preallocated 256 KiB pool for atomic coherent allocations

[ 0.066545] thermal\_sys: Registered thermal governor 'step\_wise'

[ 0.067137] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4 watchpoint registers.

[ 0.067159] hw-breakpoint: maximum watchpoint size is 8 bytes.

[ 0.125243] SCSI subsystem initialized

[ 0.125604] usbcore: registered new interface driver usbfs

[ 0.125684] usbcore: registered new interface driver hub

[ 0.125757] usbcore: registered new device driver usb

[ 0.127760] clocksource: Switched to clocksource arch\_sys\_counter

[ 0.129148] FS-Cache: Loaded

[ 0.129701] CacheFiles: Loaded

[ 0.143327] NET: Registered protocol family 2

[ 0.143992] tcp\_listen\_portaddr\_hash hash table entries: 512 (order: 0, 6144 bytes, linear)

[ 0.144045] TCP established hash table entries: 8192 (order: 3, 32768 bytes, linear)

[ 0.144128] TCP bind hash table entries: 8192 (order: 4, 65536 bytes, linear)

[ 0.144259] TCP: Hash tables configured (established 8192 bind 8192)

[ 0.145036] UDP hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.145199] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes, linear)

[ 0.145717] NET: Registered protocol family 1

[ 0.146768] RPC: Registered named UNIX socket transport module.

[ 0.146797] RPC: Registered udp transport module.

[ 0.146813] RPC: Registered tcp transport module.

[ 0.146826] RPC: Registered tcp NFSv4.1 backchannel transport module.

[ 0.869299] hw perfevents: enabled with armv7\_cortex\_a7 PMU driver, 5 counters available

[ 0.871804] workingset: timestamp\_bits=14 max\_order=18 bucket\_order=4

[ 0.885877] NFS: Registering the id\_resolver key type

[ 0.885939] Key type id\_resolver registered

[ 0.885951] Key type id\_legacy registered

[ 0.886007] ntfs: driver 2.1.32 [Flags: R/W].

[ 0.886775] bounce: pool size: 64 pages

[ 0.886829] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 250)

[ 0.886842] io scheduler mq-deadline registered

[ 0.886851] io scheduler kyber registered

[ 0.888817] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.017680] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled

[ 1.038898] loop: module loaded

[ 1.051389] libphy: Fixed MDIO Bus: probed

[ 1.052662] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 1.053731] libphy: sun4i\_mii\_bus: probed

[ 1.056493] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

[ 1.056642] ehci-platform: EHCI generic platform driver

[ 1.058420] ohci\_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

[ 1.058476] ohci-platform: OHCI generic platform driver

[ 1.059421] usbcore: registered new interface driver cdc\_acm

[ 1.059437] cdc\_acm: USB Abstract Control Model driver for USB modems and ISDN adapters

[ 1.059522] usbcore: registered new interface driver usb-storage

[ 1.062374] sun6i-rtc 1c20400.rtc: registered as rtc1

[ 1.062449] sun6i-rtc 1c20400.rtc: RTC enabled

[ 1.063290] i2c /dev entries driver

[ 1.067227] sunxi-wdt 1c20c90.watchdog: Watchdog enabled (timeout=16 sec, nowayout=0)

[ 1.071200] ledtrig-cpu: registered to indicate activity on CPUs

[ 1.071680] sun8i-ce 1c15000.crypto: Set mod clock to 300000000 (300 Mhz) from 24000000 (24 Mhz)

[ 1.071953] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072336] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072482] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.072616] sun8i-ce 1c15000.crypto: will run requests pump with realtime priority

[ 1.073142] sun8i-ce 1c15000.crypto: Register cbc(aes)

[ 1.073712] sun8i-ce 1c15000.crypto: Register ecb(aes)

[ 1.074067] sun8i-ce 1c15000.crypto: Register cbc(des3\_ede)

[ 1.074349] sun8i-ce 1c15000.crypto: Register ecb(des3\_ede)

[ 1.074626] sun8i-ce 1c15000.crypto: CryptoEngine Die ID 0

[ 1.077121] iio-rescale a1-volt: using raw+scale source channel

[ 1.077429] iio-rescale a2-volt: using raw+scale source channel

[ 1.077703] iio-rescale a3-volt: using raw+scale source channel

[ 1.078040] iio-rescale vin-volt: using raw+scale source channel

[ 1.081954] NET: Registered protocol family 10

[ 1.082994] Segment Routing with IPv6

[ 1.083104] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver

[ 1.084625] NET: Registered protocol family 17

[ 1.084868] Key type dns\_resolver registered

[ 1.084993] Registering SWP/SWPB emulation handler

[ 1.085173] registered taskstats version 1

[ 1.110451] sun4i-usb-phy 1c13400.phy: Couldn't request ID GPIO

[ 1.116330] sun4i-pinctrl 1c20800.pinctrl: initialized sunXi PIO driver

[ 1.118061] sun4i-pinctrl 1c20800.pinctrl: supply vcc-pb not found, using dummy regulator

[ 1.120284] printk: console [ttyS0] disabled

[ 1.120427] 1c28000.serial: ttyS0 at MMIO 0x1c28000 (irq = 53, base\_baud = 3000000) is a Allwinner sun4i

[ 1.972582] printk: console [ttyS0] enabled

[ 1.977805] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PI regulator

[ 1.984599] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 274

[ 1.991307] sun4i-pinctrl 1c20800.pinctrl: pin-274 (1c28800.serial) status -517

[ 1.998653] sun4i-pinctrl 1c20800.pinctrl: could not request pin 274 (PI18) from group PI18 on device 1c20800.pinctrl

[ 2.009365] dw-apb-uart 1c28800.serial: Error applying setting, reverse things back

[ 2.020109] wbec-adc: Failed to locate of\_node [id: -2]

[ 2.025604] wbec-gpio: Failed to locate of\_node [id: -2]

[ 2.031154] wbec-gpio wbec-gpio.2.auto: No ngpios property in device tree

[ 2.037991] wbec-gpio: probe of wbec-gpio.2.auto failed with error -22

[ 2.052601] wbec-watchdog wbec-watchdog.3.auto: DMA mask not set

[ 2.059255] wbec-rtc: Failed to locate of\_node [id: -2]

[ 2.071133] wbec-pwrkey wbec-pwrkey.5.auto: DMA mask not set

[ 2.077011] input: wbec pwrkey as /devices/platform/soc/1c17000.spi/spi\_master/spi0/spi0.0/wbec-pwrkey.5.auto/input/input0

[ 2.096418] wbec-power wbec-power.6.auto: DMA mask not set

[ 2.102604] wbec spi0.0: WBEC device added

[ 2.107436] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 2.115489] libphy: sun4i\_mii\_bus: probed

[ 2.120343] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.127194] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 236

[ 2.133914] sun4i-pinctrl 1c20800.pinctrl: pin-236 (1c20800.pinctrl:236) status -517

[ 2.143105] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PH regulator

[ 2.150132] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 232

[ 2.156757] sun4i-pinctrl 1c20800.pinctrl: pin-232 (1c0b000.ethernet) status -517

[ 2.164260] sun4i-pinctrl 1c20800.pinctrl: could not request pin 232 (PH8) from group PH8 on device 1c20800.pinctrl

[ 2.174791] sun4i-emac 1c0b000.ethernet: Error applying setting, reverse things back

[ 2.183403] sun4i-pinctrl 1c20800.pinctrl: Couldn't get bank PA regulator

[ 2.190226] sun4i-pinctrl 1c20800.pinctrl: request() failed for pin 0

[ 2.196667] sun4i-pinctrl 1c20800.pinctrl: pin-0 (1c50000.ethernet) status -517

[ 2.204064] sun4i-pinctrl 1c20800.pinctrl: could not request pin 0 (PA0) from group PA0 on device 1c20800.pinctrl

[ 2.214586] dwmac-sun8i 1c50000.ethernet: Error applying setting, reverse things back

[ 2.234961] axp20x-i2c 0-0034: AXP20x variant AXP221 found

[ 2.249731] input: axp20x-pek as /devices/platform/soc/1c2ac00.i2c/i2c-0/0-0034/axp221-pek/input/input1

[ 2.270779] vcc-3v3: supplied by regulator-dummy

[ 2.276514] vdd-cpu: supplied by regulator-dummy

[ 2.282205] vdd-sys: supplied by regulator-dummy

[ 2.287808] dcdc4: supplied by regulator-dummy

[ 2.292784] random: fast init done

[ 2.297210] vcc-dram: supplied by regulator-dummy

[ 2.302481] vcc-gmac-phy: failed to get the current voltage: -EPROBE\_DEFER

[ 2.309462] vcc-gmac-phy: supplied by vcc-3v3

[ 2.315101] dc5ldo: supplied by vcc-dram

[ 2.319806] tv: Bringing 700000uV into 3300000-3300000uV

[ 2.325816] tv: supplied by regulator-dummy

[ 2.330768] aldo2: Bringing 2500000uV into 3300000-3300000uV

[ 2.337096] aldo2: supplied by regulator-dummy

[ 2.342938] avcc-pll: supplied by regulator-dummy

[ 2.348597] eldo1: supplied by regulator-dummy

[ 2.353909] eldo2: supplied by regulator-dummy

[ 2.359014] vcc-pe: Bringing 1200000uV into 1800000-1800000uV

[ 2.365726] vcc-pe: supplied by regulator-dummy

[ 2.370879] vcc-sd-alt: Bringing 700000uV into 1800000-1800000uV

[ 2.377702] vcc-sd-alt: supplied by regulator-dummy

[ 2.383297] dldo2: supplied by regulator-dummy

[ 2.388524] dldo3: supplied by regulator-dummy

[ 2.393688] dldo4: supplied by regulator-dummy

[ 2.398521] rtc\_ldo: supplied by regulator-dummy

[ 2.403890] ldo\_io0: supplied by regulator-dummy

[ 2.409305] ldo\_io1: supplied by regulator-dummy

[ 2.420621] axp20x-adc axp22x-adc: DMA mask not set

[ 2.434068] axp20x-battery-power-supply axp20x-battery-power-supply: DMA mask not set

[ 2.444929] axp20x-i2c 0-0034: AXP20X driver loaded

[ 4.567769] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 4.574334] rtc-pcf85063 2-0051: RTC chip is not present

[ 4.580011] rtc-pcf85063: probe of 2-0051 failed with error -110

[ 4.592773] lm75 2-0048: supply vs not found, using dummy regulator

[ 6.647769] i2c i2c-2: mv64xxx: I2C bus locked, block: 1, time\_left: 0

[ 6.655357] lm75: probe of 2-0048 failed with error -110

[ 6.682941] sun4i-pinctrl 1c20800.pinctrl: pin PB16 already requested by 1c17000.spi; cannot claim for i2c\_eeprom1

[ 6.693343] sun4i-pinctrl 1c20800.pinctrl: pin-48 (i2c\_eeprom1) status -22

[ 6.700235] sun4i-pinctrl 1c20800.pinctrl: could not request pin 48 (PB16) from group PB16 on device 1c20800.pinctrl

[ 6.707757] sunxi-mmc 1c11000.mmc: initialized, max. request size: 2048 KB, uses new timings mode

[ 6.710839] i2c-gpio i2c\_eeprom1: Error applying setting, reverse things back

[ 6.726848] i2c-gpio: probe of i2c\_eeprom1 failed with error -22

[ 6.733145] sun4i-pinctrl 1c20800.pinctrl: pin PB14 already requested by 1c17000.spi; cannot claim for i2c\_eeprom2

[ 6.743513] sun4i-pinctrl 1c20800.pinctrl: pin-46 (i2c\_eeprom2) status -22

[ 6.750399] sun4i-pinctrl 1c20800.pinctrl: could not request pin 46 (PB14) from group PB14 on device 1c20800.pinctrl

[ 6.761009] i2c-gpio i2c\_eeprom2: Error applying setting, reverse things back

[ 6.768158] i2c-gpio: probe of i2c\_eeprom2 failed with error -22

[ 6.774449] sun4i-usb-phy 1c13400.phy: phy0 dr\_mode=3

[ 6.781773] 1c28800.serial: ttyS2 at MMIO 0x1c28800 (irq = 54, base\_baud = 3000000) is a Allwinner sun4i

[ 6.791942] sun4i-mdio 1c0b080.mdio: supply phy not found, using dummy regulator

[ 6.799862] libphy: sun4i\_mii\_bus: probed

[ 6.899770] mmc0: new DDR MMC card at address 0001

[ 6.905260] mmcblk0: mmc0:0001 88A398 7.28 GiB

[ 6.910160] mmcblk0boot0: mmc0:0001 88A398 partition 1 4.00 MiB

[ 6.916377] mmcblk0boot1: mmc0:0001 88A398 partition 2 4.00 MiB

[ 6.922644] mmcblk0rpmb: mmc0:0001 88A398 partition 3 4.00 MiB, chardev (249:0)

[ 6.932263] mmcblk0: p1 p2 p3 p4 < p5 p6 >

[ 6.941957] sun4i-emac 1c0b000.ethernet: using random MAC address f2:81:97:d7:71:e5

[ 6.951688] sun4i-emac 1c0b000.ethernet: eth0: at (ptrval), IRQ 67 MAC: f2:81:97:d7:71:e5

[ 6.960536] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 6.966891] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 6.973745] ehci-platform 1c14000.usb: EHCI Host Controller

[ 6.979358] ehci-platform 1c14000.usb: new USB bus registered, assigned bus number 1

[ 6.987376] ehci-platform 1c14000.usb: irq 38, io mem 0x01c14000

[ 7.017775] ehci-platform 1c14000.usb: USB 2.0 started, EHCI 1.00

[ 7.024589] hub 1-0:1.0: USB hub found

[ 7.028411] hub 1-0:1.0: 1 port detected

[ 7.033133] ehci-platform 1c19000.usb: EHCI Host Controller

[ 7.038748] ehci-platform 1c19000.usb: new USB bus registered, assigned bus number 2

[ 7.046659] ehci-platform 1c19000.usb: irq 40, io mem 0x01c19000

[ 7.077754] ehci-platform 1c19000.usb: USB 2.0 started, EHCI 1.00

[ 7.084472] hub 2-0:1.0: USB hub found

[ 7.088273] hub 2-0:1.0: 1 port detected

[ 7.092953] ehci-platform 1c1c000.usb: EHCI Host Controller

[ 7.098560] ehci-platform 1c1c000.usb: new USB bus registered, assigned bus number 3

[ 7.106511] ehci-platform 1c1c000.usb: irq 42, io mem 0x01c1c000

[ 7.138439] ehci-platform 1c1c000.usb: USB 2.0 started, EHCI 1.00

[ 7.145131] hub 3-0:1.0: USB hub found

[ 7.148926] hub 3-0:1.0: 1 port detected

[ 7.247893] ohci-platform 1c14400.usb: Generic Platform OHCI controller

[ 7.254527] ohci-platform 1c14400.usb: new USB bus registered, assigned bus number 4

[ 7.262442] ohci-platform 1c14400.usb: irq 39, io mem 0x01c14400

[ 7.342394] hub 4-0:1.0: USB hub found

[ 7.346175] hub 4-0:1.0: 1 port detected

[ 7.350926] ohci-platform 1c19400.usb: Generic Platform OHCI controller

[ 7.357553] ohci-platform 1c19400.usb: new USB bus registered, assigned bus number 5

[ 7.365512] ohci-platform 1c19400.usb: irq 41, io mem 0x01c19400

[ 7.442374] hub 5-0:1.0: USB hub found

[ 7.446155] hub 5-0:1.0: 1 port detected

[ 7.450915] ohci-platform 1c1c400.usb: Generic Platform OHCI controller

[ 7.457538] ohci-platform 1c1c400.usb: new USB bus registered, assigned bus number 6

[ 7.465358] usb 2-1: new high-speed USB device number 2 using ehci-platform

[ 7.472542] ohci-platform 1c1c400.usb: irq 43, io mem 0x01c1c400

[ 7.517754] usb 1-1: new high-speed USB device number 2 using ehci-platform

[ 7.552371] hub 6-0:1.0: USB hub found

[ 7.556150] hub 6-0:1.0: 1 port detected

[ 7.561109] usb\_phy\_generic usb\_phy\_generic.7.auto: supply vcc not found, using dummy regulator

[ 7.571554] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.577964] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.584969] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.591352] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.597604] sunxi-mmc 1c0f000.mmc: initialized, max. request size: 16384 KB, uses new timings mode

[ 7.597757] of\_cfs\_init

[ 7.607289] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.609077] of\_cfs\_init: OK

[ 7.615387] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.633469] Freeing unused kernel memory: 8192K

[ 7.657925] Run /init as init process

mount: mounting none on /dev/pts failed: No such file or directo[ 7.691806] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

ry

[ 7.698628] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

[ 7.739899] usb-storage 1-1:1.0: USB Mass Storage device detected

[ 7.746807] scsi host0: usb-storage 1-1:1.0

[ 7.752342] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 7.758742] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Run busybox watchdog for /dev/watchdog

Run busybox watchdog for /dev/watchdog0

Run busybox watchdog [ 7.976043] wbec-watchdog wbec-watchdog.3.auto: stop watchdog, but actually EC watchdog is always running, timeout set to 300 seconds

for /dev/watchdog1

Run busybox watchdog for /dev/watchdog2

watchdog: can't open '/dev/watchdog': Device or resource busy

watchdog: WDIOC\_SETTIMEOUT: Invalid argument

Boot mode: update\_auto

Board is WB7

[ 8.809091] scsi 0:0:0:0: Direct-Access SanDisk Ultra USB 3.0 1.00 PQ: 0 ANSI: 6

[ 8.819468] sd 0:0:0:0: [sda] 30031872 512-byte logical blocks: (15.4 GB/14.3 GiB)

[ 8.828846] sd 0:0:0:0: [sda] Write Protect is off

[ 8.834974] sd 0:0:0:0: [sda] Write cache: disabled, read cache: enabled, doesn't support DPO or FUA

[ 8.935985] sda: sda1

[ 8.948956] sd 0:0:0:0: [sda] Attached SCSI removable disk

[ 8.955741] dwmac-sun8i 1c50000.ethernet: IRQ eth\_wake\_irq not found

[ 8.962266] dwmac-sun8i 1c50000.ethernet: IRQ eth\_lpi not found

Checking that no-one is using this disk right now ... OK

Disk /tmp/bigtmpfs/ramdisk.img: 803 MiB, 842006528 bytes, 1644544 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

>>> Created a new DOS disklabel with disk identifier 0x7bbca188.

/tmp/bigtmpfs/ramdisk.img1: Created a new partition 1 of type 'W95 FAT32' and of size 802 MiB.

/tmp/bigtmpfs/ramdisk.img2: Done.

New situation:

Disklabel type: dos

Disk identifier: 0x7bbca188

Device Boot Start End Sectors Size Id Type

/tmp/bigtmpfs/ramdisk.img1 2048 1644543 1642496 802M b W95 FAT32

The partition table has been altered.

Syncing disks.

mkfs.fat 4.2 (2021-01-31)

Activate Mass Storage device

[ 12.418056] Mass Storage Function, version: 2009/09/11

[ 12.423219] LUN: removable file: (no medium)

[ 12.427598] LUN: file: /tmp/bigtmpfs/ramdisk.img

[ 12.432250] Number of LUNs=1

[ 12.435309] g\_mass\_storage gadget: Mass Storage Gadget, version: 2009/09/11

[ 12.442290] g\_mass\_storage gadget: g\_mass\_storage ready

[ 12.453027] phy phy-1c13400.phy.0: Changing dr\_mode to 1

Load modules for USB to work

Looking for update .fit on /dev/sda...

[ 12.499628] exFAT-fs (sda): invalid fs\_name

[ 12.503832] exFAT-fs (sda): failed to read boot sector

[ 12.509033] exFAT-fs (sda): failed to recognize exfat type

Looking for update .fit on /dev/sda1...

[ 12.544298] FAT-fs (sda1): Volume was not properly unmounted. Some data may be corrupt. Please run fsck.

Will use wb\_update\_FACTORYRESET.fit from USB Flash Drive

##############################################################################

FACTORY RESET REQUESTED

This WILL destroy ALL YOUR DATA: configuration, scripts,

files in home directory!

If you are ABSOLUTELY SURE that you want to reset Wiren Board

to factory condition, hold the FW button for 4 seconds.

If you will not do it in 10 seconds, the controller will reboot

without firmware update.

If you want to perform a regular firmware update, rename

FIT file to "wbX\_update.fit" without "factory-reset" suffix.

##############################################################################

....

Factory reset is confirmed!

===============================================================================

Thu Jan 1 00:00:17 UTC 1970: started update from /disk/wb\_update\_FACTORYRESET.fit

===============================================================================

Description: WirenBoard firmware update

Compatible device: wirenboard,wirenboard-720

Firmware version: 202409041832

Firmware compatible: +single-rootfs +fit-factory-reset +force-repartition +repartition-ramsize-fix +update-from-cloud

Release name: wb-2407

Release suite: stable

Release target: wb7/bullseye

Release repo prefix:

Time of creation: Wed Sep 4 18:35:00 UTC 2024

===============================================================================

>>> Checking SHA1 hash of install

PROGRESS: 0%

PROGRESS: 0%

>>> SHA1 hash of install ok

>>> Wiping data partition (factory reset)

[ 18.811352] EXT4-fs (mmcblk0p6): recovery complete

[ 18.816375] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00180742 s, 9.1 MB/s

>>> Firmware seems to be compatible with this controller

>>> Extracting install script

>>> Running install script

>>> Console logging enabled; tempfile /tmp/tmp.pXCvAP, final file /disk/wb-console.log will be written on exit

>>> Extend tmpfs size to whole RAM

>>> Remount tmpfs in /tmp with size=1003M

>>> Maybe update factoryreset.fit to fix tmpfs size issue at 512M RAM (with emmc update)

[ 22.444845] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Factoryreset.fit already includes a fix for the 512MB RAM repartition issue (repartition-ramsize-fix compatibility)

32+0 records in

32+0 records out

16384 bytes (16 kB, 16 KiB) copied, 0.00235621 s, 7.0 MB/s

[ 23.240210] random: crng init done

>>> Firmware seems to be compatible with this controller

>>> Wiping data partition (factory reset)

[ 25.757148] EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)

>>> Checking SHA1 hash of rootfs

PROGRESS: 0%

PROGRESS: 7%

PROGRESS: 16%

PROGRESS: 24%

PROGRESS: 33%

PROGRESS: 42%

PROGRESS: 51%[ 38.247838] vcc-gmac-phy: disabling

[ 38.251785] dc5ldo: disabling

[ 38.255238] dldo4: disabling

[ 38.259066] vdd-sd-power: disabling

[ 38.262623] vcc-sd: disabling

PROGRESS: 59%

PROGRESS: 68%

PROGRESS: 77%

PROGRESS: 85%

PROGRESS: 94%

PROGRESS: 100%

>>> SHA1 hash of rootfs ok

>>> rootfs is valid, installing firmware update

>>> Partition table seems to be changed already, continue

>>> rootfs enlarged!

>>> Configuring environment for repartitioned eMMC

>>> Will install to /dev/mmcblk0p2

[ 43.430520] EXT4-fs (mmcblk0p2): VFS: Found ext4 filesystem with invalid superblock checksum. Run e2fsck?

!!! Unable to mount root filesystem

[ 44.501914] reboot: Restarting system

[EC] Reboot request, reset power.

U-Boot SPL 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

DRAM: 1024 MiB

Trying to boot from MMC2

U-Boot 2021.10-wb1.7.1-gaf2600c5e5 (Oct 23 2023 - 08:43:42 +0000)

CPU: Allwinner R40 (SUN8I 1701)

Model: Wiren Board rev. 7.2.0 (A40i)

I2C: ready

DRAM: 1 GiB

MMC: mmc@1c0f000: 0, mmc@1c11000: 1

Loading Environment from MMC... OK

In: serial@1c28000

Out: serial@1c28000

Err: serial@1c28000

Will only keep env vars: mmcpart bootcount upgrade\_available uenvcmd wb\_webupd otp\_program otp\_aes\_program

## Info: input data size = 142 = 0x8E

bootcount=0

mmcpart=2

uenvcmd=true ; echo reset environment; env default -a; setenv mmcdev 0; saveenv; bmode emmc; reset

upgrade\_available=0

Environment size: 142/131068 bytes

## Resetting to default environment

## Info: input data size = 142 = 0x8E

Net: No ethernet found.

Hit <SPACE> key to stop autoboot in 1s