

OrbillAX V1.0.13

U-Boot 2016.01 (Sep 24 2019 - 17:25:51 +0800)

DRAM: smem ram ptable found: ver: 1 len: 4

1 GiB

NAND: ONFI device found

ID = 1590aaef

Vendor = ef

Device = aa

SPI_ADDR_LEN=3

SF: Detected W25Q64DW with page size 256 Bytes, erase size 4 KiB, total 8 MiB

ipq_spi: page_size: 0x100, sector_size: 0x1000, size: 0x800000
264 MiB

MMC: <NULL>: 0

In: serial@78B3000

Out: serial@78B3000

Err: serial@78B3000

machid: 801000d

Card did not respond to voltage select!

eth0 MAC Address from ART is not valid

eth1 MAC Address from ART is not valid

eth2 MAC Address from ART is not valid

eth3 MAC Address from ART is not valid

eth4 MAC Address from ART is not valid

eth5 MAC Address from ART is not valid

Net: MAC0 addr:3c:37:86:f3:72:34

PHY ID1: 0x4d

PHY ID2: 0xd0b2

EDMA ver 1 hw init

Num rings - TxDesc:1 (0-0) TxCmpl:1 (7-7)

RxDesc:1 (15-15) RxFill:1 (7-7)

ipq807x_edma_alloc_rings: successfull

ipq807x_edma_setup_ring_resources: successfull

ipq807x_edma_configure_rings: successfull

ipq807x_edma_hw_init: successfull

eth0

0

set_firmware_partition:1017 setenv firmware_partition 0

Setting bus to 0

Valid chip addresses: 31

ipq807x_eth_halt: done

eth0 PHY0 Down Speed :10 Half duplex

eth0 PHY1 Down Speed :10 Half duplex

eth0 PHY2 Down Speed :10 Half duplex

eth0 PHY3 Down Speed :10 Half duplex

eth0 PHY4 Down Speed :10 Half duplex

10M speed not supported

ipq807x_eth_init: done

net_loop:496

Client starts...[Listening] for ADVERTISE...TTT

Retry count exceeded; boot the image as usual

ipq807x_eth_halt: done

nmrp server is stopped or failed !

```
Hit any key to stop autoboot: 0
do_boot_unsignedimg:680 runcmd (setenv mtdids nand0=nand0 && setenv
mtdparts mtdparts=nand0:0x4280000@0x3e80000(fs),${msmparts} && ubi part fs
&& ubi read 0x44000000 kernel && ) ubi0: attaching mtd2
ubi0: scanning is finished
ubi0: attached mtd2 (name "mtd=0", size 66 MiB)
ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976 bytes ubi0:
min./max. I/O unit sizes: 2048/2048, sub-page size 2048
ubi0: VID header offset: 2048 (aligned 2048), data offset: 4096
ubi0: good PEBs: 532, bad PEBs: 0, corrupted PEBs: 0
ubi0: user volume: 3, internal volumes: 1, max. volumes count: 128
ubi0: max/mean erase counter: 30/17, WL threshold: 4096, image sequence
number: 2096380911
ubi0: available PEBs: 0, total reserved PEBs: 532, PEBs reserved for bad
PEB handling: 40
Read 0 bytes from volume kernel to 44000000
No size specified -> Using max size (5967872)
## Loading kernel from FIT Image at 44000028 ...
Using 'config@oak03' configuration
Trying 'kernel@1' kernel subimage
Description: ARM OpenWrt Linux-4.4.60
Type: Kernel Image
Compression: gzip compressed
Data Start: 0x4400010c
Data Size: 3979266 Bytes = 3.8 MiB
Architecture: ARM
OS: Linux
Load Address: 0x41208000
Entry Point: 0x41208000
Hash algo: crc32
Hash value: c409a70f Hash algo: sha1
Hash value: cff8f630299d9af45c20cc21a9aa753c28110bfb
Verifying Hash Integrity ... crc32+ sha1+ OK
## Loading fdt from FIT Image at 44000028 ...
Using 'config@oak03' configuration
Trying 'fdt@oak03' fdt subimage
Description: ARM OpenWrt qcom-ipq807x-hkxx device tree blob
Type: Flat Device Tree
Compression: uncompressed
Data Start: 0x444778a0
Data Size: 90191 Bytes = 88.1 KiB
Architecture: ARM
Hash algo: crc32
Hash value: a9023325
Hash algo: sha1
Hash value: b720df344291861ca0a570bf83a58368093231cd
Verifying Hash Integrity ... crc32+ sha1+ OK
Booting using the fdt blob at 0x444778a0
Uncompressing Kernel Image ... OK
Loading Device Tree to 4a3e6000, end 4a3ff04e ... OK
Using machid 0x801000d from environment
```

Starting kernel ...

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

```
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 4.4.60 (rajenkins@4c8cd3d3e6cc) (gcc version
5.2.0 (OpenWrt GCC 5.2.0 rtm-4.6.14.3+r49254) ) #3 SMP PREEMPT Thu Oct 20
18:17:45 UTC 2022 [ 0.000000] CPU: ARMv7 Processor [410fd034] revision 4
(ARMv7), cr=10c0383d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[ 0.000000] Machine model: Qualcomm Technologies, Inc. IPQ807x/AP-OAK03
[ 0.000000] Ignoring memory range 0x40000000 - 0x41000000
[ 0.000000] Reserved memory: OVERLAP DETECTED!
[ 0.000000] wifi_dump@51100000 (0x51100000--0x51700000) overlaps with
wigig_dump@51300000 (0x51300000--0x51700000) [ 0.000000] Memory policy:
Data cache writealloc
[ 0.000000] psci: probing for conduit method from DT.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
[ 0.000000] psci: MIGRATE_INFO_TYPE not supported. [ 0.000000] PERCPU:
Embedded 11 pages/cpu @be6ab000 s15168 r8192 d21696 u45056
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total
pages: 226340
[ 0.000000] Kernel command line: uboot_ver=V1.0.13
console=ttyMSM0,115200n8 ubi.mtd=rootfs root=mtd:ubi_rootfs
rootfstype=squashfs rootwait swiotlb=1 coherent_pool=2M [ 0.000000] PID
hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288
bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 893968K/914432K available (6304K kernel code, 373K
rwdata, 1908K rodata, 1024K init, 407K bss, 20464K reserved, 0K cma-
reserved, 0K highmem) [ 0.000000] Virtual kernel memory layout:
[ 0.000000] vector : 0xffff0000 - 0xffff1000 ( 4 kB)
[ 0.000000] fixmap : 0xffc00000 - 0xfff00000 (3072 kB)
[ 0.000000] vmalloc : 0xbf800000 - 0xff800000 (1024 MB) [ 0.000000] lowmem
: 0x80000000 - 0xbf000000 (1008 MB)
[ 0.000000] pkmap : 0x7fe00000 - 0x80000000 ( 2 MB)
[ 0.000000] modules : 0x7f000000 - 0x7fe00000 ( 14 MB)
[ 0.000000] .text : 0x80208000 - 0x80b05368 (9205 kB)
[ 0.000000] .init : 0x80c00000 - 0x80d00000 (1024 kB)
[ 0.000000] .data : 0x80d00000 - 0x80d5d748 ( 374 kB)
[ 0.000000] .bss : 0x80d60000 - 0x80dc5c90 ( 408 kB)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] Architected cp15 timer(s) running at 19.20MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff
max_cycles: 0x46d987e47, max_idle_ns: 440795202767 ns [ 0.000006]
sched_clock: 56 bits at 19MHz, resolution 52ns, wraps every
4398046511078ns [ 0.000017] Switching to timer-based delay loop,
resolution 52ns
[ 0.000778] Calibrating delay loop (skipped), value calculated using timer
frequency.. 38.40 BogoMIPS (lpj=192000) [ 0.000791] pid_max: default:
32768 minimum: 301
[ 0.000882] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000892] Mountpoint-cache hash table entries: 2048 (order: 1, 8192
bytes)
[ 0.001421] Initializing cgroup subsys io
```

```
[ 0.001435] Initializing cgroup subsys memory
[ 0.001459] Initializing cgroup subsys devices
[ 0.001469] Initializing cgroup subsys freezer
[ 0.001479] Initializing cgroup subsys net_cls
[ 0.001488] Initializing cgroup subsys pids
[ 0.001510] CPU: Testing write buffer coherency: ok
[ 0.001940] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
[ 0.001989] Setting up static identity map for 0x41300000 - 0x41300058
[ 0.052837] MSM Memory Dump base table set up
[ 0.052861] MSM Memory Dump apps data table set up [ 0.090169] CPU1:
thread -1, cpu 1, socket 0, mpidr 80000001
[ 0.120149] CPU2: thread -1, cpu 2, socket 0, mpidr 80000002
[ 0.150182] CPU3: thread -1, cpu 3, socket 0, mpidr 80000003
[ 0.150237] Brought up 4 CPUs
[ 0.150256] SMP: Total of 4 processors activated (153.60 BogomIPS).
[ 0.150263] CPU: All CPU(s) started in SVC mode.
[ 0.175039] VFP support v0.3: implementor 41 architecture 3 part 40
variant 3 rev 4
[ 0.175344] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff,
max_idle_ns: 19112604462750000 ns [ 0.175367] futex hash table entries:
1024 (order: 4, 65536 bytes)
[ 0.175726] pinctrl core: initialized pinctrl subsystem
[ 0.176768] NET: Registered protocol family 16
[ 0.177858] DMA: preallocated 2048 KiB pool for atomic coherent
allocations
[ 0.200018] cpuidle: using governor ladder
[ 0.230037] cpuidle: using governor menu
[ 0.230264] NET: Registered protocol family 42
[ 0.231865] Soc version is not 1, changing clock offsets [ 0.242101] irq:
no irq domain found for /soc/smp2p-wcss/slave-kernel !
[ 0.245116] irq: no irq domain found for /soc/smp2p-wcss/slave-kernel !
[ 0.265552] hw-breakpoint: found 5 (+1 reserved) breakpoint and 4
watchpoint registers.
[ 0.265564] hw-breakpoint: maximum watchpoint size is 8 bytes.
[ 0.267543] CPU: IPQ8174, SoC Version: 2.0
[ 0.268178] qcom,cpr3-npu-regulator a4000.npu-cpr: NPU CPR valid fuse
count: 2
[ 0.268567] qcom,cpr4-apss-regulator b018000.cpr4-ctrl: CPR valid fuse
count: 2
[ 0.269596] spmi spmi-0: PMIC Arb Version-2 (0x20010000)
[ 0.271356] IPC logging disabled
[ 0.271363] IPC logging disabled
[ 0.271368] IPC logging disabled
[ 0.271373] IPC logging disabled
[ 0.271377] IPC logging disabled
[ 0.271605] sps:sps is ready.
[ 0.302313] pps_core: LinuxPPS API ver. 1 registered
[ 0.302320] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo
Giometti <giometti@linux.it>
[ 0.302353] PTP clock support registered [ 0.304302] Advanced Linux Sound
Architecture Driver Initialized.
[ 0.305143] clocksource: Switched to clocksource arch_sys_counter
[ 0.308995] NET: Registered protocol family 2
[ 0.309653] TCP established hash table entries: 8192 (order: 3, 32768
bytes)
[ 0.309738] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
[ 0.309879] TCP: Hash tables configured (established 8192 bind 8192)
```

```
[ 0.309931] UDP hash table entries: 512 (order: 2, 16384 bytes)
[ 0.309968] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[ 0.310187] NET: Registered protocol family 1
[ 0.311438] hw perfevents: enabled with armv7_cortex_a7 PMU driver, 7
counters available
[ 0.319949] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 0.319968] jffs2: version 2.2 (NAND) (SUMMARY) (LZMA) (RTIME)
(CMODE_PRIORITY) (c) 2001-2006 Red Hat, Inc. [ 0.323798] Key type
asymmetric registered
[ 0.323812] Asymmetric key parser 'x509' registered [ 0.323844] io
scheduler noop registered
[ 0.323855] io scheduler deadline registered (default)
[ 0.326805] 20000000.pci supply vdda not found, using dummy regulator
[ 0.326853] 20000000.pci supply vdda_phy not found, using dummy regulator
[ 0.326902] 20000000.pci supply vdda_refclk not found, using dummy
regulator
[ 0.327580] PCI host bridge /soc/pci@20000000 ranges:
[ 0.327607] IO 0x20200000..0x2020ffff -> 0x20200000
[ 0.327621] MEM 0x20220000..0x2ffffff -> 0x20220000
[ 1.476834] qcom-pcie 20000000.pci: phy link never came up
[ 1.478392] qcom-pcie 20000000.pci: hostinit failed
[ 1.478402] qcom-pcie 20000000.pci: cannot initialize host
[ 1.478542] qcom-pcie: probe of 20000000.pci failed with error -110
[ 1.478714] 10000000.pci supply vdda not found, using dummy regulator
[ 1.478754] 10000000.pci supply vdda_phy not found, using dummy regulator
[ 1.478789] 10000000.pci supply vdda_refclk not found, using dummy
regulator [ 1.479358] PCI host bridge /soc/pci@10000000 ranges:
[ 1.479379] IO 0x10200000..0x1020ffff -> 0x10200000
[ 1.479392] MEM 0x10220000..0x1ffffff -> 0x10220000
[ 2.626838] qcom-pcie 10000000.pci: phy link never came up
[ 2.628396] qcom-pcie 10000000.pci: hostinit failed
[ 2.628406] qcom-pcie 10000000.pci: cannot initialize host
[ 2.628514] qcom-pcie: probe of 10000000.pci failed with error -110
[ 2.628962] MDSS QPIC HW Base phy_Address=0x7980000 virt=bfb40000
[ 2.629408] mdss_qpik_panel_probe: Panel Name = qpik lcd panel
[ 2.631222] mdss_fb_register: FrameBuffer[0] 800x480 registered
successfully!
[ 2.636210] msm_rpm_log_probe: OK
[ 2.636619] msm-dcc b3000.dcc: DCC XPU is not specified
[ 2.636878] msm-dcc b3000.dcc: jiffies_64: 0xffff8bd7, cntvct_64:
0x16be1618
[ 2.636891] msm-dcc b3000.dcc: gcnt_hi: 0x00000000(0xbfb1e004)
[ 2.636902] msm-dcc b3000.dcc: gcnt_lo: 0x16be17fb(0xbfb1e000) [ 2.637722]
scm_call failed: func id 0x2000119 ret: -1 syscall returns: 0x0, 0x0, 0x0
[ 2.637730] TZ SMMU State: Can't detect SMMU State
[ 2.637784] TZ Log : Will warn on Access Violation, as
paniconaccessviolation is not set
[ 2.639729] msm_serial 78b3000.serial: msm_serial: detected port #0
[ 2.639771] msm_serial 78b3000.serial: uartclk = 3686400
[ 2.639808] 78b3000.serial: ttyMSM0 at MMIO 0x78b3000 (irq = 22, base_baud
= 230400) is a MSM
[ 2.639826] msm_serial: console setup on port #0
[ 3.466557] console [ttyMSM0] enabled
[ 3.471591] msm_serial 78b1000.serial: msm_serial: detected port #1
[ 3.474812] msm_serial 78b1000.serial: uartclk = 19200000
[ 3.480897] 78b1000.serial: ttyMSM1 at MMIO 0x78b1000 (irq = 23, base_baud
= 1200000) is a MSM
```

```
[ 3.486858] msm_serial: driver initialized
[ 3.495326] msm_serial_hsl_init: driver initialized
[ 3.508516] brd: module loaded
[ 3.509166] spi_qup 78b5000.spi: IN:block:16, fifo:64, OUT:block:16,
fifo:64 [ 3.512258] m25p80 spi32766.0: found w25q64dw, expected n25q128a11
[ 3.517732] m25p80 spi32766.0: w25q64dw (8192 Kbytes)
[ 3.525383] QPIC controller hw version Major:1, Minor:5
[ 3.529064] nand: device found, Manufacturer ID: 0xef, Chip ID: 0xaa
[ 3.533813] nand: ONFI 10-Compliant Winbond W29N02GZ
[ 3.540445] nand: 256 MiB, SLC, erase size: 128 KiB, page size: 2048, OOB
size: 64
[ 3.545498] 30 ofpart partitions found on MTD device qcom_nand.0
[ 3.552735] Creating 30 MTD partitions on "qcom_nand.0":
[ 3.558912] 0x000000000000-0x000000100000 : "0:SBL1"
[ 3.565828] 0x000000100000-0x000000200000 : "0:MIBIB"
[ 3.570711] 0x000000200000-0x000000280000 : "0:BOOTCONFIG"
[ 3.575305] 0x000000280000-0x000000300000 : "0:BOOTCONFIG1"
[ 3.580692] 0x000000300000-0x000000600000 : "0:QSEE"
[ 3.588122] 0x000000600000-0x000000900000 : "0:QSEE_1"
[ 3.593271] 0x000000900000-0x000000980000 : "0:DEVCFG"
[ 3.596226] 0x000000980000-0x000000a00000 : "0:DEVCFG_1" [ 3.601358]
0x000000a00000-0x000000a80000 : "0:APDP"
[ 3.606866] 0x000000a80000-0x000000b00000 : "0:APDP_1"
[ 3.611812] 0x000000b00000-0x000000b80000 : "0:RPM"
[ 3.616789] 0x000000b80000-0x000000c00000 : "0:RPM_1"
[ 3.621540] 0x000000c00000-0x000000c80000 : "0:CDT"
[ 3.626792] 0x000000c80000-0x000000d00000 : "0:CDT_1"
[ 3.631481] 0x000000d00000-0x000000d80000 : "0:APPSBLENV"
[ 3.636592] 0x000000d80000-0x000000e80000 : "0:APPSBL"
[ 3.642365] 0x000000e80000-0x000000f80000 : "0:APPSBL_1"
[ 3.647448] 0x000000f80000-0x000001000000 : "0:ART"
[ 3.652512] 0x000001000000-0x000001080000 : "0:ETHPHYFW"
[ 3.657134] 0x000001080000-0x000001180000 : "nvram"
[ 3.663093] 0x000001180000-0x000001280000 : "nvram2"
[ 3.667717] 0x000001280000-0x000001380000 : "board_data"
[ 3.672936] 0x000001380000-0x000001480000 : "latest_rootfs"
[ 3.678201] 0x000001480000-0x000001580000 : "ML1"
[ 3.683420] 0x000001580000-0x000001680000 : "DebugMsg" [ 3.688316]
0x000001680000-0x000002080000 : "sstorage"
[ 3.700398] 0x000002080000-0x000003e80000 : "Reserved1"
[ 3.724316] 0x000003e80000-0x000008100000 : "rootfs"
[ 3.777123] mtd: device 28 (rootfs) set to be root filesystem
[ 3.777388] mtdsplit: no squashfs found in "rootfs"
[ 3.781849] 0x000008100000-0x00000c380000 : "rootfs_1"
[ 3.838982] 0x00000c380000-0x00000fb00000 : "rootfs_2"
[ 3.884263] libphy: Fixed MDIO Bus: probed
[ 4.105011] qca-mdio 90000.mdio: Could not find phy-reset-gpio
[ 4.105186] libphy: qca_mdio: probed
[ 4.111123] qca-mdio 90000.mdio: qca-mdio driver was registered
[ 4.113727] Unable to create IPC log context!
[ 4.119463] Skip QCA8074V1 in V2 platform
[ 4.123881] cnss: Platform driver probed successfully. plat bd8ef010 tgt
0xffff
[ 4.127967] i2c /dev entries driver
[ 4.144077] device-mapper: ioctl: 4.34.0-ioctl (2015-10-28) initialised:
dm-devel@redhat.com [ 4.144584] sdhci: Secure Digital Host Controller
Interface driver
```

```
[ 4.151637] sdhci: Copyright(c) Pierre Ossman
[ 4.157602] sdhci-pltfm: SDHCI platform and OF driver helper
[ 4.162453] qcom_ice_get_pdevice: invalid device list
[ 4.167745] sdhci_msm 7824900.sdhci: sdhci_msm_ice_get_dev: ICE device not
probed yet
[ 4.172679] sdhci_msm 7824900.sdhci: sdhci_msm_probe: required ICE device
not probed yet err = -517
[ 4.180892] sdhci_msm 7864900.sdhci: sdhci_msm_probe: ICE device is not
enabled
[ 4.189424] sdhci_msm 7864900.sdhci: Got SD LDO GPIO #21
[ 4.296682] sdhci_msm 7864900.sdhci: No vreg data found for vdd
[ 4.296711] sdhci_msm 7864900.sdhci: No vreg data found for vdd-io
[ 4.312293] pmd9655_ldo11: supplied by e-smps1-reg
[ 4.312413] sdhci_msm 7864900.sdhci: No vmmc regulator found
[ 4.355264] mmc0: SDHCI controller on 7864900.sdhci [7864900.sdhci] using
ADMA 64-bit [ 4.357541] qcom_ice_get_device_tree_data: No vdd-hba-supply
regulator, assuming not needed
[ 4.362117] ICE IRQ = 26
[ 4.370861]
[ 4.370861] Version Rollback Feature Disabled
[ 4.373560] sps_register_bam_device : unable to create IPC Logging 0 for
bam 0x08b04000
[ 4.378670] sps_register_bam_device : unable to create IPC Logging 1 for
bam 0x08b04000sps_register_bam_device : unable to create IPC Logging 2 for
bam 0x08b04000 [ 4.394532] sps_register_bam_device : unable to create IPC
Logging 3 for bam 0x08b04000sps_register_bam_device : unable to create IPC
Logging 4 for bam 0x08b04000 [ 4.409040] sps:BAM 0x08b04000 is registered.
[ 4.418281] qcom-q6v5-wcss-pil cd00000.qcom_q6v5_wcss: ssr registration
success qcom_q6v5_wcss [ 4.419797] remoteproc remoteproc0:
cd00000.qcom_q6v5_wcss is available
[ 4.429103] SPMI VADC - Min ch: 0 Max ch: 15
[ 4.436869] of_graph_get_next_endpoint(): no port node found in
/soc/csr@6001000 [ 4.439597] coresight-csr 6001000.csr: CSR initialized
[ 4.447082] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6010000
[ 4.452030] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6011000
[ 4.459577] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6012000
[ 4.466964] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6013000
[ 4.474317] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6014000
[ 4.481721] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6015000
[ 4.489098] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6016000
[ 4.496480] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6017000
[ 4.503845] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6018000
[ 4.511235] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6019000
[ 4.518623] of_graph_get_next_endpoint(): no port node found in
/soc/cti@601a000 [ 4.525974] of_graph_get_next_endpoint(): no port node
found in /soc/cti@601b000
[ 4.533331] of_graph_get_next_endpoint(): no port node found in
```

```
/soc/cti@601c000
[ 4.540723] of_graph_get_next_endpoint(): no port node found in
/soc/cti@601d000
[ 4.548105] of_graph_get_next_endpoint(): no port node found in
/soc/cti@601e000
[ 4.556571] of_graph_get_next_endpoint(): no port node found in
/soc/cti@601f000
[ 4.562849] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6198000
[ 4.570405] of_graph_get_next_endpoint(): no port node found in
/soc/cti@6199000
[ 4.577772] of_graph_get_next_endpoint(): no port node found in
/soc/cti@619a000
[ 4.585195] of_graph_get_next_endpoint(): no port node found in
/soc/cti@619b000
[ 4.592608] of_graph_get_next_endpoint(): no port node found in
/soc/cti@610c000
[ 4.599975] sps_register_bam_device : unable to create IPC Logging 0 for
bam 0x06044000 [ 4.606965] sps_register_bam_device : unable to create IPC
Logging 1 for bam 0x06044000sps_register_bam_device : unable to create IPC
Logging 2 for bam 0x06044000 [ 4.622676] sps_register_bam_device : unable
to create IPC Logging 3 for bam 0x06044000sps_register_bam_device : unable
to create IPC Logging 4 for bam 0x06044000 [ 4.637165] sps:BAM 0x06044000
is registered.[ 4.644187] coresight-tmc 6028000.tmc: TMC initialized
[ 4.648291] coresight-tmc 6027000.tmc: TMC initialized
[ 4.653387] coresight-funnel 6021000.funnel: FUNNEL initialized
[ 4.658446] coresight-funnel 6100000.funnel: FUNNEL initialized
[ 4.664238] coresight-funnel 6120000.funnel: FUNNEL initialized
[ 4.670149] coresight-funnel 6130000.funnel: FUNNEL initialized
[ 4.676063] coresight-funnel 61a1000.funnel: FUNNEL initialized
[ 4.682699] coresight-etm4x 619c000.etm: ETM 4.0 initialized
[ 4.688333] coresight-etm4x 619d000.etm: ETM 4.0 initialized [ 4.694262]
coresight-etm4x 619e000.etm: ETM 4.0 initialized
[ 4.699977] coresight-etm4x 619f000.etm: ETM 4.0 initialized
[ 4.705067] coresight-replicator-qcom 6026000.replicator: REPLICATOR 1.0
initialized
[ 4.710863] coresight-stm 6002000.stm: STM initialized
[ 4.719669] of_graph_get_next_endpoint(): no port node found in
/soc/hwevent@6101000
[ 4.723215] coresight-hwevent 6101000.hwevent: Hardware Event driver
initialized
[ 4.732740] ipq_audio soc:sound@0: ASoC: CPU DAI qca-i2s-dai not
registered
[ 4.738391] ipq_audio soc:sound@0: snd_soc_register_card() failed:-517
[ 4.747834] qca_codec 0-0012: i2c regmap done
[ 4.754017] NET: Registered protocol family 10
[ 4.756897] NET: Registered protocol family 17
[ 4.760461] bridge: automatic filtering via arp/ip/ip6tables has been
deprecated. Update your scripts to load br_netfilter if you need this. [
4.764901] Bridge firewalling registered
[ 4.777632] 8021q: 802.1Q VLAN Support v1.8 [ 4.781779] Registering
SWP/SWPB emulation handler
[ 4.786625] qcom,cpr3-npu-regulator a4000.npu-cpr: NPU CPR valid fuse
count: 2
[ 4.790569] pmd9655_s4: supplied by e-smps1-reg
[ 4.797773] cpr3_mem_acc_init: npu: not using memory accelerator regulator
[ 4.802000] npu_corner: fused NOM: open-loop= 824000 uV
```



```
[ 4.808974] npu_corner: fused TURBO: open-loop= 880000 uV
[ 4.814807] npu_corner: fused NOM: open-loop= 824000 uV
[ 4.820428] npu_corner: fused TURBO: open-loop= 880000 uV
[ 4.826082] npu_corner: Normal and Cold condition init done. Default to
normal.
[ 4.832005] qcom,cpr4-apss-regulator b018000.cpr4-ctrl: CPR valid fuse
count: 2
[ 4.838846] pmd9655_s3: supplied by e-smps1-reg
[ 4.846149] cpr4_ipq807x_apss_read_fuse_data: apc_corner: speed bin = 0
[ 4.850522] cpr4_ipq807x_apss_read_fuse_data: apc_corner: CPR fusing
revision = 1
[ 4.857137] cpr4_ipq807x_apss_read_fuse_data: apc_corner: CPR misc fuse
value = 0 [ 4.864773] cpr4_ipq807x_apss_read_fuse_data: apc_corner:
Voltage boost fuse config = 0 boost = disable
[ 4.872289] cpr3_mem_acc_init: apc: not using memory accelerator regulator
[ 4.881446] cpr4_ipq807x_apss_calculate_open_loop_voltages: apc_corner:
fused SVS: open-loop= 712000 uV [ 4.888388]
cpr4_ipq807x_apss_calculate_open_loop_voltages: apc_corner: fused NOM:
open-loop= 840000 uV [ 4.898421]
cpr4_ipq807x_apss_calculate_target_quotients: apc_corner: fused SVS: quot[
7]= 681, quot_offset[ 7]= 0 [ 4.908183]
cpr4_ipq807x_apss_calculate_target_quotients: apc_corner: fused NOM: quot[
7]= 920, quot_offset[ 7]= 235 [ 4.919128] cpr3_regulator_init_ctrl: apc:
Default CPR mode = closed-loop
[ 4.931018] cpufreq: cpufreq_online: CPU0: Running at unlisted freq:
800000 KHz
[ 4.936839] cpufreq: cpufreq_online: CPU0: Unlisted initial frequency
changed to: 1017600 KHz
[ 4.944409] qcom_ice_get_pdevice: found ice device bda6f3c0 [ 4.952547]
qcom_ice_get_pdevice: matching platform device belf6400
[ 4.957947] sdhci_msm 7824900.sdhci: No vreg data found for vdd
[ 4.964147] sdhci_msm 7824900.sdhci: No vreg data found for vdd-io
[ 4.970264] qcom_ice 7803000.sdcclice: QC ICE 2.1.44 device found
@0xc08cc000
[ 4.976364] sdhci_msm 7824900.sdhci: No vmmc regulator found
[ 4.983504] sdhci_msm 7824900.sdhci: No vqmmc regulator found
[ 5.035151] mmc1: SDHCI controller on 7824900.sdhci [7824900.sdhci] using
ADMA 64-bit
[ 5.040521] ipq_audio soc:sound@0: qca-i2s-codec-dai <-> qca-i2s-dai
mapping ok
[ 5.042880] ipq_audio soc:sound@0: qca-tdm-codec-dai <-> qca-tdm-dai
mapping ok
[ 5.079794] ubi0: attaching mtd28
[ 5.255568] random: nonblocking pool is initialized
[ 5.349206] ubi0: scanning is finished
[ 5.354887] ubi0: attached mtd28 (name "rootfs", size 66 MiB)
[ 5.354908] ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976 bytes
[ 5.359614] ubi0: min./max. I/O unit sizes: 2048/2048, sub-page size 2048
[ 5.366381] ubi0: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 5.373231] ubi0: good PEBs: 532, bad PEBs: 0, corrupted PEBs: 0
[ 5.380007] ubi0: user volume: 3, internal volumes: 1, max. volumes count:
128
[ 5.386259] ubi0: max/mean erase counter: 30/17, WL threshold: 4096, image
sequence number: 2096380911
[ 5.393288] ubi0: available PEBs: 0, total reserved PEBs: 532, PEBs
reserved for bad PEB handling: 40
```

```
[ 5.402592] ubi0: background thread "ubi_bgt0d" started, PID 134
[ 5.413168] hctosys: unable to open rtc device (rtc0)
[ 5.425007] ALSA device list:
[ 5.425027] #0: ipq8074_snd_card
[ 5.429185] VFS: Mounted root (squashfs filesystem) readonly on device
31:32.
[ 5.431888] Freeing unused kernel memory: 1024K (80c00000 - 80d00000)
^@[ 5.789340] init: Console is alive
[ 5.789436] init: - watchdog -
[ 7.152302] usbcore: registered new interface driver usbfs [ 7.152355]
usbcore: registered new interface driver hub
[ 7.156777] usbcore: registered new device driver usb
[ 7.163534] Button Hotplug driver version 0.4.1
[ 7.167403] genl_dhcp_stats: initializing netlink
[ 7.183723] ipq807x-pinctrl 1000000.pinctrl: pin GPIO_34 already requested
by soc:pcm_lb@0; cannot claim for soc:gpio_keys [ 7.183762] ipq807x-
pinctrl 1000000.pinctrl: pin-34 (soc:gpio_keys) status -22
[ 7.193699] ipq807x-pinctrl 1000000.pinctrl: could not request pin 34
(GPIO_34) from group gpio34 on device 1000000.pinctrl [ 7.200910] gpio-
keys soc:gpio_keys: Error applying setting, reverse things back
[ 7.218347] SCSI subsystem initialized
[ 7.229547] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 7.229964] ehci-platform: EHCI generic platform driver
[ 7.243740] msm-usb-ssphy-qmp 78000.ssphy: Initializing QMP phy
[ 7.252715] msm-usb-ssphy-qmp 78000.ssphy: QMP PHY initialization timeout
[ 7.252739] msm-usb-ssphy-qmp 78000.ssphy: USB3_PHY_PCS_STATUS:68686868
[ 7.459632] msm-usb-ssphy-qmp 58000.ssphy: Initializing QMP phy
[ 7.470500] msm-usb-ssphy-qmp 58000.ssphy: QMP PHY initialization timeout
[ 7.470524] msm-usb-ssphy-qmp 58000.ssphy: USB3_PHY_PCS_STATUS:68686868
[ 7.681862] xhci-hcd xhci-hcd.0.auto: xHCI Host Controller
[ 7.681902] xhci-hcd xhci-hcd.0.auto: new USB bus registered, assigned bus
number 1
[ 7.686447] xhci-hcd xhci-hcd.0.auto: hcc params 0x0220fe65 hci version
0x110 quirks 0x00010010
[ 7.693822] xhci-hcd xhci-hcd.0.auto: irq 233, io mem 0x08a00000
[ 7.702894] hub 1-0:1.0: USB hub found
[ 7.708743] hub 1-0:1.0: 1 port detected
[ 7.712476] xhci-hcd xhci-hcd.0.auto: xHCI Host Controller
[ 7.716392] xhci-hcd xhci-hcd.0.auto: new USB bus registered, assigned bus
number 2
[ 7.721689] usb usb2: We don't know the algorithms for LPM for this host,
disabling LPM.
[ 7.729550] hub 2-0:1.0: USB hub found [ 7.737554] hub 2-0:1.0: 1 port
detected
[ 7.741310] xhci-hcd xhci-hcd.1.auto: xHCI Host Controller
[ 7.745193] xhci-hcd xhci-hcd.1.auto: new USB bus registered, assigned bus
number 3
[ 7.750607] xhci-hcd xhci-hcd.1.auto: hcc params 0x0220fe65 hci version
0x110 quirks 0x00010010
[ 7.758060] xhci-hcd xhci-hcd.1.auto: irq 234, io mem 0x08c00000
[ 7.767054] hub 3-0:1.0: USB hub found
[ 7.772961] hub 3-0:1.0: 1 port detected
[ 7.776695] xhci-hcd xhci-hcd.1.auto: xHCI Host Controller
[ 7.780596] xhci-hcd xhci-hcd.1.auto: new USB bus registered, assigned bus
number 4
[ 7.785932] usb usb4: We don't know the algorithms for LPM for this host,
disabling LPM.
```

```
[ 7.793779] hub 4-0:1.0: USB hub found
[ 7.801789] hub 4-0:1.0: 1 port detected
[ 7.809311] usbcore: registered new interface driver usb-storage
[ 7.810087] usbcore: registered new interface driver uas
[ 8.792192] init: - preinit -
Press the [f] key and hit [enter] to enter failsafe mode Press the [1],
[2], [3] or [4] key and hit [enter] to select the debug level
Before mount_root
After mount_root
12064+0 records in
12064+0 records out
12064 bytes (11.8KB) copied, 0.037978 seconds, 310.2KB/s
131072+0 records in
131072+0 records out
131072 bytes (128.0KB) copied, 0.379072 seconds, 337.7KB/s
[ 11.431347] procd: - early -
[ 11.431392] procd: - watchdog -
[ 12.059474] procd: - ubus -
[ 13.062130] procd: - init -
Please press Enter to activate this console.
[ 13.985968] ubil: attaching mtd27
[ 14.110405] ubil: scanning is finished
[ 14.116073] ubil: attached mtd27 (name "Reserved1", size 30 MiB)
[ 14.116096] ubil: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
[ 14.121138] ubil: min./max. I/O unit sizes: 2048/2048, sub-page size 2048
[ 14.127834] ubil: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 14.134679] ubil: good PEBs: 240, bad PEBs: 0, corrupted PEBs: 0 [
14.141456] ubil: user volume: 1, internal volumes: 1, max. volumes count:
128
[ 14.147708] ubil: max/mean erase counter: 28/12, WL threshold: 4096,
image sequence number: 281231811
[ 14.154735] ubil: available PEBs: 68, total reserved PEBs: 172, PEBs
reserved for bad PEB handling: 2
[ 14.164041] ubil: background thread "ubi_bgt1d" started, PID 862
[ 14.176471] ubil error: ubi_create_volume: volume "Reserved1" exists (ID
0)
[ 14.179301] ubil error: ubi_create_volume: cannot create volume 1, error
-17
[ 14.193858] UBIFS (ubil:0): background thread "ubifs_bgt1_0" started, PID
869
[ 14.220436] UBIFS (ubil:0): recovery needed
[ 14.301712] UBIFS (ubil:0): recovery completed
[ 14.301784] UBIFS (ubil:0): UBIFS: mounted UBI device 1, volume 0, name
"Reserved1"
[ 14.305044] UBIFS (ubil:0): LEB size: 126976 bytes (124 KiB), min./max.
I/O unit sizes: 2048 bytes/2048 bytes [ 14.312614] UBIFS (ubil:0): FS
size: 19808256 bytes (18 MiB, 156 LEBs), journal size 1015809 bytes (0
MiB, 8 LEBs) [ 14.322678] UBIFS (ubil:0): reserved for root: 935592 bytes
(913 KiB)
[ 14.332914] UBIFS (ubil:0): media format: w4/r0 (latest is w4/r0), UUID
CC798376-18D9-4C87-B40C-86E3CE116D5F, small LPT model [ 16.251310]
cfg80211: World regulatory domain updated:
[ 16.251336] cfg80211: DFS Master region: unset
[ 16.255375] cfg80211: (start_freq - end_freq @ bandwidth),
(max_antenna_gain, max_eirp), (dfs_cac_time)
```

```
[ 16.258130] Initializing XFRM netlink socket
[ 16.258852] NET: Registered protocol family 15
[ 16.273848] cfg80211: (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000
mBm), (N/A)
[ 16.278133] cfg80211: (2457000 KHz - 2482000 KHz @ 20000 KHz, 92000 KHz
AUTO), (N/A, 2000 mBm), (N/A)
[ 16.286023] cfg80211: (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000
mBm), (N/A) [ 16.295395] cfg80211: (5170000 KHz - 5250000 KHz @ 80000 KHz,
160000 KHz AUTO), (N/A, 2000 mBm), (N/A)
[ 16.303362] cfg80211: (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz
AUTO), (N/A, 2000 mBm), (0 s)
[ 16.304636] loop: module loaded
[ 16.322532] cfg80211: (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A,
2000 mBm), (0 s)
[ 16.325405] cfg80211: (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000
mBm), (N/A)
[ 16.333727] cfg80211: (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A,
0 mBm), (N/A)
[ 17.498085] ssdk_switch_device_num_init[1084]:INFO:ess-switch dts node
number: 1
[ 17.501801] ssdk_dt_get_switch_node[919]:INFO:ess-switch DT exist!
[ 17.508812] ssdk_dt_parse_access_mode[820]:INFO:switch_access_mode: local
bus
[ 17.514946] ssdk_dt_parse_access_mode[833]:INFO:switchreg_base_addr:
0x3a000000
[ 17.522065] ssdk_dt_parse_access_mode[834]:INFO:switchreg_size: 0x1000000
[ 17.529363] ssdk_dt_parse_mac_mode[288]:INFO:mac mode = 0x0 [ 17.535783]
ssdk_dt_parse_mac_mode[297]:INFO:mac model = 0xff
[ 17.541334] ssdk_dt_parse_mac_mode[306]:INFO:mac mode2 = 0xd
[ 17.547070] ssdk_dt_parse_phy_info[564]:INFO:qcom,port_phyinfo DT doesn't
exist!
[ 17.552717] ssdk_dt_parse_mdio[678]:INFO:mdio DT exist!
[ 17.559758] ssdk_dt_parse_uniphy[325]:INFO:ess-uniphy DT exist!
[ 17.565405] ssdk_dt_parse_intf_mac[766]:INFO:dp1 MAC 3c:37:86:f3:72:34
[ 17.571356] ssdk_plat_init start
[ 17.648523] ssdk_gcc_clock_init[629]:INFO:SSDK gcc clock init
successfully!
[ 17.651759] ssdk_probe[1922]:INFO:ess_rst doesn't exist!
[ 17.658539] HPPE initializing...
[ 17.659787] ssdk_phy_driver_init[299]:INFO:dev_id = 0, phy_adress = 7,
phy_id = 0xffffffff phytype doesn't match [ 17.666974]
malibu_phy_api_ops_init[2849]:INFO:qca probe malibu phy driver succeeded!
[ 17.680935] regi_init[3368]:INFO:Initializing HPPE!!
[ 17.895152] ssdk_ppe_reset_init[860]:INFO:ppe reset successfully! [
17.901500] qca_hppe_tdm_hw_init[674]:INFO:tdm setup num=96
[ 17.904771] qca_hppe_portctrl_hw_init[105]:INFO:Hawkeye PPE port
initializing
[ 19.457326] ssdk_switch_register[1631]:INFO:Chip version 0x1500
[ 19.460311] qca_link_polling_select[1281]:INFO:link-polling-required node
does not exist
[ 19.466553] ssdk_switch_register[1656]:INFO:polling is selected
[ 19.474271] regi_init[3372]:INFO:Initializing HPPE Done!!
[ 19.479194] regi_init[3423]:INFO:qca-ssdk module init succeeded!
[ 19.518980] tun: Universal TUN/TAP device driver, 1.6
[ 19.519005] tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
[ 19.526980] EDMA ver 1 hw init
[ 19.529298] EDMA HW Reset completed succesfully
```

```
[ 19.532152] Num rings - TxDesc:1 (23-23) TxCmpl:1 (7-7)
[ 19.536572] RxDesc:1 (15-15) RxFill:1 (7-7)
[ 19.543254] GMAC2(bac8ad00) Invalid MAC@ - using 3e:3e:cc:49:b3:96
[ 19.547054] GMAC4(bac8d500) Invalid MAC@ - using 72:b5:10:20:5b:a2 [
19.553222] GMAC5(bac8fd00) Invalid MAC@ - using 0e:f1:86:ae:e5:d5
[ 19.559502] GMAC6(baf4a500) Invalid MAC@ - using 1e:9f:55:79:85:43
[ 19.564623] libphy: PHY 90000.mdio:07 not found
[ 19.570758] nss-dp: probe of 3a007000.dp5 failed with error -14
[ 19.575227] *****
[ 19.580999] * NSS Data Plane driver
[ 19.587608] *****
[ 19.598689] l2tp_core: L2TP core driver, V2.0
[ 19.599166] l2tp_netlink: L2TP netlink interface
[ 19.696157] qca-nss 39000000.nss: Direct firmware load for qca-nss0.bin
failed with error -2
[ 19.696192] qca-nss 39000000.nss: Falling back to user helper
/lib/firmware/qca-nss0.bin 33
[ 20.002869] nss_driver - fw of size 739892 bytes copied to load addr:
40000000, nss_id : 0
[ 20.004552] Supported Frequencies -
[ 20.010038] 748.8 MHz 1.4976 GHz
[ 20.016008] 1.6896 GHz [ 20.017043]
[ 20.019463] 7f79a500: set sdma bac5db00 [ 20.020954] 7f79a500: meminfo
init succeed
[ 20.050794] qca-nss 39400000.nss: Direct firmware load for qca-nss1.bin
failed with error -2
[ 20.050828] qca-nss 39400000.nss: Falling back to user helper
[ 20.069107] node size 2 # items 4
[ 20.069132] memory: 40000000 1073741824 (avl 944222208) items 4
active_cores 2
[ 20.071435] addr/size storage words 2 2 # words 4 in DTS, ddr size
1000000
[ 20.078534] 7f79a500: nss core 0 booted successfully
/lib/firmware/qca-nss1.bin 33
[ 20.131887] nss_driver - fw of size 289396 bytes copied to load addr:
40800000, nss_id : 1
[ 20.132789] Supported Frequencies -
[ 20.139139] 748.8 MHz 1.4976 GHz
[ 20.145024] 1.6896 GHz [ 20.146061]
[ 20.148508] 7f79ea40: set sdma bac5da00
[ 20.150002] 7f79ea40: meminfo init succeed
[ 20.155519] sit: IPv6 over IPv4 tunneling driver
[ 20.157779] node size 2 # items 4
[ 20.157783] memory: 40000000 1073741824 (avl 944525312) items 4
active_cores 2 [ 20.157820] addr/size storage words 2 2 # words 4 in DTS,
ddr size 1000000
[ 20.157830] 7f79ea40: nss core 1 booted successfully
[ 20.182616] nat46: module (version
8ff2ae59ec9840a7b8b45f976c51cae80abe0226) loaded.
[ 20.187401] gre: GRE over IPv4 demultiplexor driver
[ 20.193553] ip_gre: GRE over IPv4 tunneling driver
[ 20.199180] ip6_gre: GRE over IPv6 tunneling driver
[ 20.210071] Ethernet Channel Bonding Driver: v3.7.1 (April 27, 2011)
[ 20.224884] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 20.228904] rmnet_nss_init(): initializing rmnet_nss
[ 20.232393] Netfilter messages via NETLINK v0.30.
[ 20.235996] ip_set: protocol 6
```

```
[ 20.254448] nf_contrack version 0.5.0 (13984 buckets, 55936 max)
[ 20.261805] openvswitch: Open vSwitch switching datapath
[ 20.271950] QCA Hy-Fi multicast installation successfully
[ 20.280413] PPP generic driver version 2.4.2
[ 20.282512] nss_lag_init[354]:LAG Manager Installed
[ 20.286284] NET: Registered protocol family 24 [ 20.291372] PPTP driver
version 0.8.5
[ 20.304021] diag: IPC Logging disabled
[ 20.324658] TRACK: P[0] PMask[4]
[ 20.324678] TRACK: P[1] PMask[4]
[ 20.326987] TRACK: P[2] PMask[4]
[ 20.345479] TRACK: P[3] PMask[4]
[ 20.345530] nik 4097 info->svc_id
[ 20.351083] QCA multicast snooping installed successfully
[ 20.353097] <NSS-CRYPTO>:module loaded Build_ID - 10/20/22, 18:02:47
SoC=ipq807x
[ 20.365686] cannot find nss-macsec0 node
[ 20.365749] cannot find nss-macsec1 node
[ 20.368734] cannot find nss-macsec2 node
[ 20.372581] nss_macsec init success
[ 20.400155] u32 classifier
[ 20.400174] input device check on
[ 20.401754] Actions configured
[ 20.406935] Mirror/redirect action on
[ 20.425263] fuse init (API version 7.23)
[ 20.428326] arp_tables: (C) 2002 David S. Miller
[ 20.434422] Ebtables v2.0 registered
[ 20.436381] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 20.440801] l2tp_ppp: PPPoL2TP kernel driver, V2.0 [ 20.512183] ctnetlink
v0.93: registering with nfnetlink.
[ 20.514696] nf_contrack_rtsp v0.6.21 loading
[ 20.740884] nf_nat_rtsp v0.6.21 loading
[ 20.746543] nf_tables: (c) 2007-2009 Patrick McHardy <kaber@trash.net>
[ 20.760984] PPP MPPE Compression module registered
[ 20.932231] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 20.984563] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.037870] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.038506] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.045228] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.053897] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.113361] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.165793] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size. [ 21.218059] vmalloc allocation for size 20480 failed: use
vmalloc=<size> to increase size.
[ 21.270219] vmalloc allocation for size 20480 failed: use vmalloc=<size> to
increase size.
[ 21.283064] xt_time: kernel timezone is -0000
qcawifi configuration is disable
[ 25.668563] mem_manager: module license 'Proprietary' taints kernel.
[ 25.668591] Disabling lock debugging due to kernel taint
```

```
[ 28.508126] alloc_vmap_area: 44 callbacks suppressed
[ 28.508151] vmap allocation for size 2920448 failed: use vmalloc=<size>
to increase size.
[ 28.513204] vmap allocation for size 417792 failed: use vmalloc=<size> to
increase size.
[ 28.618916] wlan: [1533:E:CONFIG] cfg_uint_item_handler: 171:
gScanProbeRepeatTime=50 - Out of range [0, 30]; Using 50 [ 28.634536] vmap
allocation for size 94208 failed: use vmalloc=<size> to increase size.
[ 28.634638] vmap allocation for size 28672 failed: use vmalloc=<size> to
increase size.
*****FW ini file not found*****
*****No cold_boot_support***** [ 29.199695] vmap allocation for size
1363968 failed: use vmalloc=<size> to increase size.
[ 29.200237] vmap allocation for size 241664 failed: use vmalloc=<size> to
increase size.
[ 29.470253] vmap allocation for size 753664 failed: use vmalloc=<size> to
increase size.
[ 29.470588] vmap allocation for size 118784 failed: use vmalloc=<size> to
increase size.
[ 29.485468] wlan: [1537:I:ANY] =====ol_if_register_wifi3_0=====
[ 29.485468]
[ 29.485507] wlan: [1537:I:ANY] osif_nss_register_module: 90: NSS wifi ops
registered for target_type:1 with soc_ops:ca52c8fc [ 29.493263] wlan:
[1537:I:ANY] ol_ath_wifi_ssr: 256: ol_ath_wifi_ssr: SSR event 2 bus_type 1
[ 29.504720] remoteproc remoteproc0: powering up cd00000.qcom_q6v5_wcss
[ 29.531396] remoteproc remoteproc0: Booting fw image IPQ8074/q6_fw.mdt,
size 668
[ 30.618445] remoteproc remoteproc0: remote processor
cd00000.qcom_q6v5_wcss is now up [ 30.618516] wlan: [1537:I:ANY]
ol_ath_wifi_ssr: 256: ol_ath_wifi_ssr: SSR event 3 bus_type 1
[ 30.618921] rpmsg_dev_probe: No pm domain
[ 30.619147] rpmsg_dev_probe: No pm domain
[ 30.637687] diag: In diag_send_feature_mask_update, control channel is
not open, p: 2, 7faf3dc4
[ 30.637752] wlan: [1537:I:ANY] ol_ath_check_fw_ready: 614: Waiting for FW
ready device fffe
[ 47.355156] wlan: [1537:I:ANY] ol_ath_check_fw_ready: 619: Error: QMI FW
ready timeout 15 seconds
[ 47.355189] qmi_history_index [127]
[ 47.363000] Assertion failed! 0:ol_ath_check_fw_ready
/home/openwrt/ntgr_qsdk/qsdk/build_dir/target-arm_cortex-a7_musl-
1.1.16_eabi/linux-ipq_ipq807x/qca-wifi-g788b837ea-dirty-unified-
profile/qca-wifi-g788b837ea-
dirty/os/linux/../../../../qca_ol/./offload/os/linux/ath_ahb.c:621 [ 47.368383]
CPU: 2 PID: 1537 Comm: insmod Tainted: P 4.4.60 #3
[ 47.390606] Hardware name: Generic DT based system [ 47.397654]
[<80316dac>] (unwind_backtrace) from [<80313700>] (show_stack+0x10/0x14)
[ 47.402334] [<80313700>] (show_stack) from [<80512314>] (dump_stack
+0x7c/0x9c)
[ 47.410333] [<80512314>] (dump_stack) from [<ca6b1cd8>]
(ol_ath_check_fw_ready+0xf8/0x114 [qca_ol])
[ 47.417561] [<ca6b1cd8>] (ol_ath_check_fw_ready [qca_ol]) from
[<ca6b1d44>] (ol_ath_ahb_probe+0x50/0x44c [qca_ol]) [ 47.426346]
[<ca6b1d44>] (ol_ath_ahb_probe [qca_ol]) from [<ca6b2748>]
(ol_ath_wifi_ssr+0x608/0x8ac [qca_ol]) [ 47.436697] [<ca6b2748>]
(ol_ath_wifi_ssr [qca_ol]) from [<8062f230>] (cnss_qca8074_notifier_nb
+0x24/0xb0)
```

```
[ 47.446610] [<8062f230>] (cnss_qca8074_notifier_nb) from [<80339928>]
(notifier_call_chain+0x40/0x68)
[ 47.456156] [<80339928>] (notifier_call_chain) from [<80339d10>]
(__srcu_notifier_call_chain+0x88/0xa4)
[ 47.465442] [<80339d10>] (__srcu_notifier_call_chain) from [<80339d40>]
(srcu_notifier_call_chain+0x14/0x1c) [ 47.474648] [<80339d40>]
(srcu_notifier_call_chain) from [<8058f34c>]
(notify_each_subsys_device.constprop.4+0x90/0xa8) [ 47.484716]
[<8058f34c>] (notify_each_subsys_device.constprop.4) from [<8058fe48>]
(__subsystem_get+0x138/0x184) [ 47.495220] [<8058fe48>] (__subsystem_get)
from [<80631b28>] (cnss_wlan_register_driver+0x7c/0x148)
[ 47.505698] [<80631b28>] (cnss_wlan_register_driver) from [<ca671c20>]
(pld_register_driver+0x68/0x134 [qca_ol]) [ 47.514577] [<ca671c20>]
(pld_register_driver [qca_ol]) from [<ca4fee58>]
(init_ath_ahb_3_0+0xc/0x60 [wifi_3_0]) [ 47.525114] [<ca4fee58>]
(init_ath_ahb_3_0 [wifi_3_0]) from [<c7bce04c>] (init_module+0x4c/0x1000
[wifi_3_0]) [ 47.535125] [<c7bce04c>] (init_module [wifi_3_0]) from
[<8030b2a0>] (do_one_initcall+0x1b4/0x1f8)
[ 47.544784] [<8030b2a0>] (do_one_initcall) from [<8037f5e0>]
(do_init_module+0x54/0x1b4)
[ 47.553635] [<8037f5e0>] (do_init_module) from [<80380f44>] (load_module
+0x17a8/0x1c34) [ 47.561793] [<80380f44>] (load_module) from [<803814f4>]
(SyS_init_module+0x124/0x14c)
[ 47.569520] [<803814f4>] (SyS_init_module) from [<80301b80>]
(ret_fast_syscall+0x0/0x34)
[ 47.577525] QDF BUG in ol_ath_check_fw_ready Line 621: Failed assertion
'0'
[ 47.585777] -----[ cut here ]-----
[ 47.592427] kernel BUG at /home/openwrt/ntgr_qsdk/qsdk/build_dir/target-
arm_cortex-a7_musl-1.1.16_eabi/linux-ipq_ipq807x/qca-wifi-g788b837ea-
dirty-unified-profile/qca-wifi-g788b837ea-
dirty/os/linux/../../../../qca_ol/./cmn_dev/qdf/linux/src/i_qdf_trace.h:349! [
47.597360] Internal error: Oops - BUG: 0 [#1] PREEMPT SMP ARM [ 47.619598]
Modules linked in: wifi_3_0(+) qca_ol qca_spectral umac asf(P) qdf
mem_manager(P) iptable_nat nft_chain_nat_ipv4 nf_tables_inet nf_nat_pptp
nf_nat_ipv4 nf_nat_amanda nf_conntrack_pptp nf_conntrack_ipv4
nf_conntrack_amanda ipt_REJECT ipt_MASQUERADE ip6table_nat ip6t_MASQUERADE
ebtable_nat ebtable_filter ebtable_broute xt_u32 xt_time xt_tcpudp
xt_tcpmss xt_string xt_statistic xt_state xt_recent xt_quota xt_policy
xt_pkttype xt_physdev xt_owner xt_nat xt_multiport xt_mark xt_mac xt_limit
xt_length xt_iprange xt_id xt_hl xt_helper xt_esp xt_ecn xt_dscp
xt_conntrack xt_connmark xt_connlimit xt_connbytes xt_comment xt_addrtype
xt_TCPMSS xt_REDIRECT xt_NFQUEUE xt_LOG xt_HL xt_DSCP xt_CT xt_CLASSIFY
ts_kmp ts_fsm ts_bm ppp_mppe ppp_async nft_reject_ipv6 nft_reject_ipv4
nft_reject_inet nft_reject nft_redir_ipv6 nft_redir_ipv4 nft_redir
nft_rbtrees nft_nat nft_meta nft_masq_ipv6 nft_masq_ipv4 nft_masq nft_log
nft_limit nft_hash nft_exthdr nft_ct nft_counter nft_chain_route_ipv6
nft_chain_route_ipv4 nft_chain_nat_ipv6 nfnetlink_queue nf_tables_ipv6
nf_tables_ipv4 nf_tables nf_reject_ipv4 nf_nat_tftp nf_nat_snmp_basic
nf_nat_sip nf_nat_rtsp nf_nat_redirect nf_nat_proto_gre
nf_nat_masquerade_ipv6 nf_nat_masquerade_ipv4 nf_nat_irc nf_nat_ipv6
nf_nat_h323 nf_nat_ftp nf_log_ipv4 nf_defrag_ipv4 nf_conntrack_tftp
nf_conntrack_snmp nf_conntrack_sip nf_conntrack_rtsp nf_conntrack_rtcache
nf_conntrack_proto_gre nf_conntrack_netlink nf_conntrack_irc
nf_conntrack_ipv6 nf_conntrack_h323 nf_conntrack_ftp
nf_conntrack_broadcast macvlan l2tp_ppp iptable_raw iptable_mangle
iptable_filter ipt_ah ipt_ECN ip_tables ip6t_NPT ebtables ebt_vlan ebt_stp
```



```
ebt_redirect ebt_pkttype ebt_nflog ebt_mark_m ebt_mark ebt_log ebt_limit
ebt_among ebt_802_3 arptable_filter arpt_mangle arp_tables fuse act_ipt
sch_teql em_nbyte sch_dsmark sch_prio sch_pie sch_tbf sch_gred em_meta
sch_htb cls_basic em_text sch_codel sch_sfq sch_fq act_police em_cmp
sch_red act_connmark act_skbedit act_mirred em_u32 cls_u32 cls_tcindex
cls_flow cls_route cls_fw sch_hfsc sch_ingress qca_nss_cfi_ocf
qca_nss_tunipip6 qca_nss_tun6rd qca_nss_ipsecmgr qca_nss_cfi_cryptoapi
qca_nss_qdisc usb_f_qdss u_qdss qca_nss_macsec qca_nss_crypto qca_mcs
diagchar usb_f_diag crc_ccitt qca_nss_vxlanmgr qca_nss_pptp pptp
qca_nss_pppoe pppoe pppox qca_nss_map_t qca_nss_lag_mgr qca_nss_l2tpv2
ppp_generic slhc qca_nss_gre qca_nss_bridge_mgr qca_nss_vlan hyfi_bridging
nf_nat_proto_sctp nf_nat libcomposite qca_ovsmgr openvswitch
nf_defrag_ipv6 libcrc32c nf_conntrack_proto_sctp nf_conntrack xt_set
ip_set_list_set ip_set_hash_netiface ip_set_hash_netport
ip_set_hash_netnet ip_set_hash_net ip_set_hash_netportnet ip_set_hash_mac
ip_set_hash_ipportnet ip_set_hash_ipportip ip_set_hash_ipport
ip_set_hash_ipmark ip_set_hash_ip ip_set_bitmap_port ip_set_bitmap_ipmac
ip_set_bitmap_ip ip_set nfnetlink ip6t_rt ip6t_frag ip6t_hbh ip6t_eui64
ip6t_mh ip6t_ah ip6t_ipv6header rmnet_nss ip6t_REJECT nf_reject_ipv6
nf_log_ipv6 nf_log_common ip6table_raw ip6table_mangle ip6table_filter
ip6_tables x_tables hyfi_qdisc bonding ip6_gre ip_gre gre ifb nat46 sit
qca_nss_drv l2tp_netlink l2tp_core ipcomp6 xfrm6_tunnel xfrm6_mode_tunnel
xfrm6_mode_transport xfrm6_mode_beet esp6 ah6 ipcomp xfrm4_tunnel
xfrm4_mode_tunnel xfrm4_mode_transport xfrm4_mode_beet esp4 ah4 ip6_tunnel
qca_nss_dp tunnel6 tunnel4 ip_tunnel veth tun snd_compress snd_pcm_oss
snd_mixer_oss snd_rawmidi snd_seq_device snd_hwdep qca_ssdk loop af_key
xfrm_user xfrm_ipcomp xfrm_algo cfg80211 nls_iso8859_1 nls_cp437 vxlan
udp_tunnel ip6_udp_tunnel shortcut_fe_drv shortcut_fe_ipv6 shortcut_fe
shal_generic cryptosoft cryptodev ocf md5 ecb des_generic cbc authenc uas
usb_storage leds_gpio bootconfig xhci_plat_hcd xhci_pci xhci_hcd dwc3
udc_core dwc3_of_simple dbm phy_msm_ssusb_qmp phy_msm_qusb ahci
ehci_platform ehci_hcd sd_mod ahci_platform libahci_platform libahci
libata scsi_mod gpio_button_hotplug f2fs dhcpnet button_hotplug input_core
usbcore nls_base usb_common [ 47.971845] CPU: 2 PID: 1537 Comm: insmod
Tainted: P 4.4.60 #3 [ 47.972117] Hardware name: Generic DT based system
[ 47.979232] task: bd0f1e00 ti: b8754000 task.ti: b8754000
[ 47.984020] PC is at ol_ath_check_fw_ready+0x10c/0x114 [qca_ol]
[ 47.989461] LR is at ol_ath_check_fw_ready+0x10c/0x114 [qca_ol]
[ 47.995119] pc : [<ca6b1cec>] lr : [<ca6b1cec>] psr: 60000013
[ 47.995119] sp : b8755c00 ip : 00000000 fp : be1fd410
[ 48.001032] r10: ca6b2748 r9 : ca6f864c r8 : 00000000
[ 48.012478] r7 : be1fd400 r6 : 0000ffff r5 : be1fd410 r4 : 0000026d
[ 48.017688] r3 : 00000004 r2 : 00000000 r1 : 60000013 r0 : 0000003f
[ 48.024288] Flags: nZCv IRQs on FIQs on Mode SVC_32 ISA ARM Segment user
[ 48.030799] Control: 10c0383d Table: 7820806a DAC: 00000055
[ 48.038000] Process insmod (pid: 1537, stack limit = 0xb8754210)
[ 48.043730] Stack: (0xb8755c00 to 0xb8756000)
[ 48.049806] 5c00: 0000026d 0000000f 00000000 80a7f354 ca6f8674 ca6b1d44
ca6fc484 be6ff2f0 [ 48.054066] 5c20: 00000001 ca6f8684 00000028 8068efa4
80d9b294 ca6fc3c0 a0000013 be6ff2f0
[ 48.062227] 5c40: 00000001 8068f008 be1fd410 00000000 ca6f8674 be1fd400
be1fd410 00000000
[ 48.070386] 5c60: 00000003 ca6f8674 be1fd400 00000001 ca6f8684 00000028
ca52ca08 ca6b2748
[ 48.078546] 5c80: 00000100 ca6f8684 00000003 00000001 be1fd410 00000028
80a7f354 ca671ab0
[ 48.086706] 5ca0: 00000000 00000000 23928260 be1fd400 be1fd410 80a7f354
```

b70601c0 bd8ef298
[48.094865] 5cc0: 00000000 ca744254 b8755d54 00000000 8062f20c 00000028
ca52ca08 8062f230
[48.103024] 5ce0: ffffffff 00000000 00000003 b8755d54 00000000 80339928
bdafd24c bdaafd234
[48.111186] 5d00: 00000000 00000003 b8755d54 ffffffff 00000028 80339d10
00000000 00000003
[48.119345] 5d20: b8755d54 00000001 b8755d88 00000003 80d930bc 80d930d0
80d168e8 80339d40
[48.127503] 5d40: 00000000 00000003 b8755d54 8058f34c bdafeb40 00000000
00000000 00000000 [48.135664] 5d60: bda9a400 belf8400 bda9a400 bda9a4ec
b8755d84 00000000 00000000 8058fe48
[48.143824] 5d80: 80a432c2 bda9a400 bd8ef010 00000000 ca744254 80d93ef8
80d93f18 80631b28
[48.151984] 5da0: b70601c0 c7bce000 80d02408 00000000 80d168e8 ca671c20
b82e2500 c7bce000
[48.160142] 5dc0: 80d02408 ca4fee58 ca52c8fc ca5075f8 b82e2500 c7bce04c
000000a4 00000000
[48.168302] 5de0: 80d168e8 80d168e8 00000028 8030b2a0 bf803000 8040003f
803ab794 a0000013
[48.176462] 5e00: bef0a74c 803a9bc8 00000000 80d05c10 be6b0e9c be6b0e90
8040003f 00000000
[48.184622] 5e20: beedd8b4 00000001 beedd8c4 be71d000 beedd8b4 bef0d56c
bef0d56c b8743540
[48.192782] 5e40: 80d8740c dc8ba63c b872f800 ca52c9c0 b872f800 b82e24c0
b872fb30 00000000
[48.200941] 5e60: 0000002a 8037f5e0 ca52c9c0 3da77000 b8755f44 b872f800
ca52c9c0 80380f44
[48.209102] 5e80: ca52c9cc 00007fff ca52c9c0 8037e6c4 bf802000 80d02484
000003c1 c92f8000 [48.217262] 5ea0: c93a1ae0 809ce938 ca52cb84 76f6c4f0
ffffffff b8755ef4 ca501000 00000008
[48.225420] 5ec0: 00000000 00000000 00000000 00000000 6e72656b 00006c65
00000000 00000000
[48.233579] 5ee0: 00000000 00000000 00000000 00000000 00000000 00000000
00000000 00000000
[48.241741] 5f00: 00000000 00000000 00000000 dc8ba63c 00000000 0000c2c4
76f382d4 00000000
[48.249900] 5f20: c93e42c4 76f6c4f0 b8754000 00000000 00000000 803814f4
00000000 000ec2c4
[48.258060] 5f40: bcfe2480 c92f8000 000ec2c4 c93a14a0 c93a1305 c93b1b30
000ac000 000afc10
[48.266219] 5f60: 00000000 00000000 00000000 0001b20c 00000028 00000029
0000001e 00000000
[48.274380] 5f80: 0000001a 00000000 000ec2c4 00000000 00000000 00000003
00000080 80301d24
[48.282539] 5fa0: b8754000 80301b80 00000000 00000000 76e4c010 000ec2c4
76f6c4f0 00001f20
[48.290699] 5fc0: 00000000 00000000 00000003 00000080 000ec2c4 00000000
54b09f18 00000000 [48.298858] 5fe0: 7eecdd14 7eecdcf8 54af8e00 76fa5674
60000010 76e4c010 e58d501c e2833001
[48.307171] [<ca6b1cec>] (ol_ath_check_fw_ready [qca_ol]) from
[<ca6b1d44>] (ol_ath_ahb_probe+0x50/0x44c [qca_ol]) [48.315319]
[<ca6b1d44>] (ol_ath_ahb_probe [qca_ol]) from [<ca6b2748>]
(ol_ath_wifi_ssr+0x608/0x8ac [qca_ol]) [48.325501] [<ca6b2748>]
(ol_ath_wifi_ssr [qca_ol]) from [<8062f230>] (cnss_qca8074_notifier_nb
+0x24/0xb0)
[48.335412] [<8062f230>] (cnss_qca8074_notifier_nb) from [<80339928>]

```
(notifier_call_chain+0x40/0x68)
[ 48.344958] [<80339928>] (notifier_call_chain) from [<80339d10>]
(__srcu_notifier_call_chain+0x88/0xa4)
[ 48.354244] [<80339d10>] (__srcu_notifier_call_chain) from [<80339d40>]
(srcu_notifier_call_chain+0x14/0x1c) [ 48.363449] [<80339d40>]
(srcu_notifier_call_chain) from [<8058f34c>]
(notify_each_subsys_device.constprop.4+0x90/0xa8) [ 48.373519]
[<8058f34c>] (notify_each_subsys_device.constprop.4) from [<8058fe48>]
(__subsystem_get+0x138/0x184) [ 48.384021] [<8058fe48>] (__subsystem_get)
from [<80631b28>] (cnss_wlan_register_driver+0x7c/0x148)
[ 48.394500] [<80631b28>] (cnss_wlan_register_driver) from [<ca671c20>]
(pld_register_driver+0x68/0x134 [qca_ol]) [ 48.403374] [<ca671c20>]
(pld_register_driver [qca_ol]) from [<ca4fee58>]
(init_ath_ahb_3_0+0xc/0x60 [wifi_3_0]) [ 48.413787] [<ca4fee58>]
(init_ath_ahb_3_0 [wifi_3_0]) from [<c7bce04c>] (init_module+0x4c/0x1000
[wifi_3_0]) [ 48.423859] [<c7bce04c>] (init_module [wifi_3_0]) from
[<8030b2a0>] (do_one_initcall+0x1b4/0x1f8)
[ 48.433586] [<8030b2a0>] (do_one_initcall) from [<8037f5e0>]
(do_init_module+0x54/0x1b4)
[ 48.442435] [<8037f5e0>] (do_init_module) from [<80380f44>] (load_module
+0x17a8/0x1c34)
[ 48.450594] [<80380f44>] (load_module) from [<803814f4>] (SyS_init_module
+0x124/0x14c)
[ 48.458321] [<803814f4>] (SyS_init_module) from [<80301b80>]
(ret_fast_syscall+0x0/0x34)
[ 48.466307] Code: e1a02004 e59f1008 e34c0a72 eb00a18c (e7f001f2) [
48.474547] ---[ end trace d7d3646e4369655f ]---
[ 48.480534] Kernel panic - not syncing: Fatal exception
[ 48.485226] CPU3: stopping
[ 48.490168] CPU: 3 PID: 0 Comm: swapper/3 Tainted: P D 4.4.60 #3
[ 48.492950] Hardware name: Generic DT based system
[ 48.500160] [<80316dac>] (unwind_backtrace) from [<80313700>] (show_stack
+0x10/0x14)
[ 48.504851] [<80313700>] (show_stack) from [<80512314>] (dump_stack
+0x7c/0x9c)
[ 48.512748] [<80512314>] (dump_stack) from [<80315fac>] (handle_IPI
+0xe8/0x180)
[ 48.519778] [<80315fac>] (handle_IPI) from [<803013a4>] (gic_handle_irq
+0x78/0x94)
[ 48.526981] [<803013a4>] (gic_handle_irq) from [<803024c0>] (__irq_svc
+0x40/0x74)
[ 48.534618] Exception stack(0xbe093f98 to 0xbe093fe0)
[ 48.542166] 3f80: 00000001 00000000
[ 48.547210] 3fa0: 00000000 80303360 00000000 be092000 00000000 80c3434c
be093ff0 410fd034 [ 48.555369] 3fc0: 00000000 00000000 00000000 be093fe8
80310dfc 80310e00 60000013 ffffffff
[ 48.563528] [<803024c0>] (__irq_svc) from [<80310e00>] (arch_cpu_idle
+0x2c/0x50)
[ 48.571689] [<80310e00>] (arch_cpu_idle) from [<803541f8>]
(cpu_startup_entry+0x134/0x214)
[ 48.579155] [<803541f8>] (cpu_startup_entry) from [<4130144c>]
(0x4130144c)
[ 48.587220] CPU0: stopping
[ 48.594071] CPU: 0 PID: 33 Comm: kworker/0:1 Tainted: P D 4.4.60 #3
[ 48.596857] Hardware name: Generic DT based system
[ 48.604804] Workqueue: events qca_mac_sw_sync_work_task [qca_ssdk]
[ 48.615168] [<80316dac>] (unwind_backtrace) from [<80313700>] (show_stack
```

```
+0x10/0x14)
[ 48.615267] [<80313700>] (show_stack) from [<80512314>] (dump_stack
+0x7c/0x9c)
[ 48.623076] [<80512314>] (dump_stack) from [<80315fac>] (handle_IPI
+0xe8/0x180)
[ 48.630106] [<80315fac>] (handle_IPI) from [<803013a4>] (gic_handle_irq
+0x78/0x94)
[ 48.637311] [<803013a4>] (gic_handle_irq) from [<803024c0>] (__irq_svc
+0x40/0x74)
[ 48.644947] Exception stack(0xbd8a9db0 to 0xbd8a9df8)
[ 48.652496] 9da0: bda6f010 00000004 0000001f bfb7e000
[ 48.657539] 9dc0: 000003e8 bda6f010 80d313f0 bda9802c 00000004 00000000
bcfa8c00 7f47e6b8
[ 48.665698] 9de0: 00000000 bd8a9e00 806285ec 806284a0 60000013 ffffffff
[ 48.673857] [<803024c0>] (__irq_svc) from [<806284a0>]
(qca_mdio_wait_busy+0x14/0x5c)
[ 48.680283] [<806284a0>] (qca_mdio_wait_busy) from [<806285ec>]
(qca_mdio_read+0x18/0xf0)
[ 48.688271] [<806285ec>] (qca_mdio_read) from [<80624688>] (mdiobus_read
+0x54/0x6c)
[ 48.696805] [<80624688>] (mdiobus_read) from [<7f3a9e80>]
(qca_ar8327_phy_read+0x30/0x54 [qca_ssdk])
[ 48.704550] [<7f3a9e80>] (qca_ar8327_phy_read [qca_ssdk]) from
[<7f396904>] (malibu_phy_intr_mask_set+0x108/0x1b4 [qca_ssdk]) [
48.713870] [<7f396904>] (malibu_phy_intr_mask_set [qca_ssdk]) from
[<7f396d58>] (malibu_phy_get_eee_status+0x88/0xc8 [qca_ssdk]) [ 48.725068]
[<7f396d58>] (malibu_phy_get_eee_status [qca_ssdk]) from [<7f39707c>]
(malibu_phy_get_status+0xf4/0x110 [qca_ssdk]) [ 48.736692] [<7f39707c>]
(malibu_phy_get_status [qca_ssdk]) from [<7f38823c>]
(qca_hppe_mac_sw_sync_task+0x1d0/0xc5c [qca_ssdk]) [ 48.747966]
[<7f38823c>] (qca_hppe_mac_sw_sync_task [qca_ssdk]) from [<7f33676c>]
(qca_mac_sw_sync_work_task+0x40/0x68 [qca_ssdk]) [ 48.759482] [<7f33676c>]
(qca_mac_sw_sync_work_task [qca_ssdk]) from [<80333d98>] (process_one_work
+0x1c0/0x2f8) [ 48.770742] [<80333d98>] (process_one_work) from
[<803349d4>] (worker_thread+0x2b0/0x3ec)
[ 48.781065] [<803349d4>] (worker_thread) from [<80338d70>] (kthread
+0xd8/0xec)
[ 48.789134] [<80338d70>] (kthread) from [<80301c28>] (ret_from_fork
+0x14/0x2c)
[ 48.796255] CPU1: stopping
[ 48.803448] CPU: 1 PID: 0 Comm: swapper/1 Tainted: P D 4.4.60 #3
[ 48.806145] Hardware name: Generic DT based system [ 48.813356]
[<80316dac>] (unwind_backtrace) from [<80313700>] (show_stack+0x10/0x14)
[ 48.818043] [<80313700>] (show_stack) from [<80512314>] (dump_stack
+0x7c/0x9c)
[ 48.825941] [<80512314>] (dump_stack) from [<80315fac>] (handle_IPI
+0xe8/0x180)
[ 48.832972] [<80315fac>] (handle_IPI) from [<803013a4>] (gic_handle_irq
+0x78/0x94)
[ 48.840177] [<803013a4>] (gic_handle_irq) from [<803024c0>] (__irq_svc
+0x40/0x74)
[ 48.847812] Exception stack(0xbe08ff98 to 0xbe08ffe0)
[ 48.855361] ff80: 00000001 00000000
[ 48.860403] ffa0: 00000000 80303360 00000000 be08e000 00000000 80c3434c
be08fff0 410fd034
[ 48.868562] ffc0: 00000000 00000000 00000000 be08ffe8 80310dfc 80310e00
60000013 ffffffff
```

```
[ 48.876723] [<803024c0>] (__irq_svc) from [<80310e00>] (arch_cpu_idle
+0x2c/0x50)
[ 48.884882] [<80310e00>] (arch_cpu_idle) from [<803541f8>]
(cpu_startup_entry+0x134/0x214) [ 48.892348] [<803541f8>]
(cpu_startup_entry) from [<4130144c>] (0x4130144c)
[ 48.900481] Couldn't get reading for sensor 4
[ 48.907325] Couldn't get reading for sensor 5
[ 48.911838] Couldn't get reading for sensor 6
[ 48.916123] The reading for sensor 7 is 0x0020714b
[ 48.920465] The reading for sensor 8 is 0x00208144
[ 48.925206] Couldn't get reading for sensor 9
[ 48.929926] The reading for sensor 10 is 0x0020a155
[ 48.934354] The reading for sensor 11 is 0x0020b15b
[ 48.939096] Couldn't get reading for sensor 12
[ 48.943902] The reading for sensor 13 is 0x0020d158
[ 48.948416] The reading for sensor 14 is 0x0020e14e
[ 48.953246] Couldn't get reading for sensor 15
[ 48.958066]
MINIDUMP VA .bss start=ca74ae80 module=qca_ol
[ 48.962660]
[ 48.962660] MINIDUMP VA .bss start=c809a600 module=umac
MINIDUMP VA .bss start=c7c08140 module=qdf
[ 49.975987] Rebooting in 5 seconds..
Format: Log Type - Time(microsec) - Message - Optional Info Log Type: B -
Since Boot(Power On Reset), D - Delta, S - Statistic
S - QC_IMAGE_VERSION_STRING=BOOT.BF.3.3.1-00147
S - IMAGE_VARIANT_STRING=HAACANAZA
S - OEM_IMAGE_VERSION_STRING=CRM
S - Boot Config, 0x000002e5
B - 201 - PBL, Start
B - 2734 - bootable_media_detect_entry, Start
B - 3440 - bootable_media_detect_success, Start
B - 3445 - elf_loader_entry, Start
B - 6107 - auth_hash_seg_entry, Start
B - 6350 - auth_hash_seg_exit, Start
B - 68444 - elf_segs_hash_verify_entry, Start
B - 131140 - PBL, End
B - 217343 - SBL1, Start
B - 296551 - GCC [RstStat:0x23, RstDbg:0x720100] WDog Stat : 0x4
B - 306433 - pm_device_init, Start
B - 487634 - PM_SET_VAL:Skip
D - 179126 - pm_device_init, Delta
B - 489891 - pm_driver_init, Start
D - 5307 - pm_driver_init, Delta
B - 496387 - clock_init, Start
D - 2104 - clock_init, Delta
B - 500413 - boot_flash_init, Start
D - 13206 - boot_flash_init, Delta B - 517310 -
boot_config_data_table_init, Start
D - 3202 - boot_config_data_table_init, Delta - (575 Bytes)
B - 524813 - Boot Setting : 0x00000618
B - 528748 - CDT version:2,Platform ID:8,Major ID:1,Minor ID:0,Subtype:13
B - 535702 - sbl1_ddr_set_params, Start
B - 539453 - CPR configuration: 0x30c
B - 542930 - cpr_init, Start
B - 545797 - Rail:0 Mode: 5 Voltage: 840000
B - 550952 - CL CPR settled at 792000mV
```

B - 553758 - Rail:1 Mode: 5 Voltage: 896000
B - 557936 - Rail:1 Mode: 7 Voltage: 936000
D - 16439 - cpr_init, Delta
B - 564829 - Pre_DDR_clock_init, Start
B - 568855 - Pre_DDR_clock_init, End
B - 572241 - DDR Type : PCDDR4
B - 582306 - Image Load, Start
D - 691069 - QSEE Image Loaded, Delta - (1380336 Bytes)
B - 1273466 - Image Load, Start
D - 61 - SEC Image Loaded, Delta - (0 Bytes)
B - 1281152 - Image Load, Start
D - 476410 - DEVCFG Image Loaded, Delta - (32404 Bytes)
B - 1757654 - Image Load, Start D - 563487 - APPSBL Image Loaded, Delta -
(604596 Bytes)
B - 2321263 - QSEE Execution, Start
D - 61 - QSEE Execution, Delta
B - 2327089 - USB D+ check, Start
D - 0 - USB D+ check, Delta
B - 2333463 - SBL1, End
D - 2118438 - SBL1, Delta
S - Flash Throughput, 6806 KB/s (2018583 Bytes, 296576 us)
S - DDR Frequency, 600 MHz
S - Core 0 Frequency, 800 MHz

OrbillAX V1.0.13

U-Boot 2016.01 (Sep 24 2019 - 17:25:51 +0800)

DRAM: smem ram ptable found: ver: 1 len: 4
1 GiB
NAND: ONFI device found
ID = 1590aaef
Vendor = ef
Device = aa
SPI_ADDR_LEN=3
SF: Detected W25Q64DW with page size 256 Bytes, erase size 4 KiB, total 8
MiB
ipq_spi: page_size: 0x100, sector_size: 0x1000, size: 0x800000
264 MiB
MMC: <NULL>: 0
In: serial@78B3000
Out: serial@78B3000
Err: serial@78B3000
machid: 801000d
Card did not respond to voltage select!
eth0 MAC Address from ART is not valid
eth1 MAC Address from ART is not valid
eth2 MAC Address from ART is not valid eth3 MAC Address from ART is not
valid
eth4 MAC Address from ART is not valid
eth5 MAC Address from ART is not valid
Net: MAC0 addr:3c:37:86:f3:72:34
PHY ID1: 0x4d
PHY ID2: 0xd0b2
EDMA ver 1 hw init
Num rings - TxDesc:1 (0-0) TxCmpl:1 (7-7)

```
RxDesc:1 (15-15) RxFill:1 (7-7)
ipq807x_edma_alloc_rings: successfull
ipq807x_edma_setup_ring_resources: successfull
ipq807x_edma_configure_rings: successfull
ipq807x_edma_hw_init: successfull
eth0
0
set_firmware_partition:1017 setenv firmware_partition 0
Setting bus to 0
Valid chip addresses: 31
ipq807x_eth_halt: done
eth0 PHY0 Down Speed :10 Half duplex
eth0 PHY1 Down Speed :10 Half duplex
eth0 PHY2 Down Speed :10 Half duplex
eth0 PHY3 Down Speed :10 Half duplex
eth0 PHY4 Down Speed :10 Half duplex
10M speed not supported
ipq807x_eth_init: done
net_loop:496
```

```
Client starts...[Listening] for ADVERTISE...TTT
Retry count exceeded; boot the image as usual
ipq807x_eth_halt: done
```

```
nmrp server is stopped or failed !
Crashdump magic found, but reboot. Because crash_pause is not enabled
resetting ...
```

```
Format: Log Type - Time(microsec) - Message - Optional Info
Log Type: B - Since Boot(Power On Reset), D - Delta, S - Statistic
S - QC_IMAGE_VERSION_STRING=BOOT.BF.3.3.1-00147
S - IMAGE_VARIANT_STRING=HAACANAZA
S - OEM_IMAGE_VERSION_STRING=CRM
S - Boot Config, 0x000002e5
B - 201 - PBL, Start
B - 2736 - bootable_media_detect_entry, Start
B - 3444 - bootable_media_detect_success, Start
B - 3449 - elf_loader_entry, Start
B - 6118 - auth_hash_seg_entry, Start
B - 6361 - auth_hash_seg_exit, Start
B - 68605 - elf_segs_hash_verify_entry, Start
B - 131301 - PBL, End
B - 217526 - SBL1, Start
B - 296765 - GCC [RstStat:0x10, RstDbg:0x600000] WDog Stat : 0x4
B - 306647 - pm_device_init, Start
B - 489525 - PM_SET_VAL:Skip
D - 180773 - pm_device_init, Delta
B - 491812 - pm_driver_init, Start
D - 5368 - pm_driver_init, Delta B - 498248 - clock_init, Start
D - 2165 - clock_init, Delta
B - 502304 - boot_flash_init, Start
D - 13206 - boot_flash_init, Delta
B - 519201 - boot_config_data_table_init, Start
D - 3202 - boot_config_data_table_init, Delta - (575 Bytes)
B - 526735 - Boot Setting : 0x00000618
B - 530669 - CDT version:2,Platform ID:8,Major ID:1,Minor ID:0,Subtype:13
B - 537593 - sbl1_ddr_set_params, Start
```

B - 541405 - CPR configuration: 0x30c
B - 544882 - cpr_init, Start
B - 547658 - Rail:0 Mode: 5 Voltage: 840000
B - 552812 - CL CPR settled at 792000mV
B - 555649 - Rail:1 Mode: 5 Voltage: 896000
B - 559827 - Rail:1 Mode: 7 Voltage: 936000
D - 16470 - cpr_init, Delta
B - 566720 - Pre_DDR_clock_init, Start
B - 570746 - Pre_DDR_clock_init, End
B - 574132 - DDR Type : PCDDR4
B - 580750 - do ddr sanity test, Start
D - 1067 - do ddr sanity test, Delta
B - 584563 - DDR: Start of HAL DDR Boot Training B - 589290 - DDR: End of HAL DDR Boot Training
B - 594994 - DDR: Checksum to be stored on flash is -125875556
B - 605394 - Image Load, Start
D - 689392 - QSEE Image Loaded, Delta - (1380336 Bytes)
B - 1294877 - Image Load, Start
D - 61 - SEC Image Loaded, Delta - (0 Bytes)
B - 1302594 - Image Load, Start
D - 476318 - DEVCFG Image Loaded, Delta - (32404 Bytes)
B - 1779004 - Image Load, Start
D - 490867 - RPM Image Loaded, Delta - (112364 Bytes)
B - 2269962 - Image Load, Start
D - 563152 - APPSBL Image Loaded, Delta - (604596 Bytes)
B - 2833267 - QSEE Execution, Start
D - 61 - QSEE Execution, Delta
B - 2839062 - USB D+ check, Start
D - 0 - USB D+ check, Delta
B - 2845467 - SBL1, End
D - 2630228 - SBL1, Delta
S - Flash Throughput, 6740 KB/s (2130947 Bytes, 316155 us)
S - DDR Frequency, 600 MHz
S - Core 0 Frequency, 800 MHz

OrbillAX V1.0.13

U-Boot 2016.01 (Sep 24 2019 - 17:25:51 +0800)

DRAM: smem ram ptable found: ver: 1 len: 4

1 GiB

NAND: ONFI device found

ID = 1590aaef

Vendor = ef

Device = aa

SPI_ADDR_LEN=3

SF: Detected W25Q64DW with page size 256 Bytes, erase size 4 KiB, total 8 MiB

ipq_spi: page_size: 0x100, sector_size: 0x1000, size: 0x800000
264 MiB

MMC: <NULL>: 0

In: serial@78B3000

Out: serial@78B3000

Err: serial@78B3000

machid: 801000d

Card did not respond to voltage select!

eth0 MAC Address from ART is not valid


```
eth1 MAC Address from ART is not valid
eth2 MAC Address from ART is not valid
eth3 MAC Address from ART is not valid
eth4 MAC Address from ART is not valid
eth5 MAC Address from ART is not valid
Net: MAC0 addr:3c:37:86:f3:72:34
PHY ID1: 0x4d
PHY ID2: 0xd0b2
EDMA ver 1 hw init
Num rings - TxDesc:1 (0-0) TxCmpl:1 (7-7)
RxDesc:1 (15-15) RxFill:1 (7-7)
ipq807x_edma_alloc_rings: successfull
ipq807x_edma_setup_ring_resources: successfull
ipq807x_edma_configure_rings: successfull
ipq807x_edma_hw_init: successfull
eth0
0 set_firmware_partition:1017 setenv firmware_partition 0
Setting bus to 0
Valid chip addresses: 31
ipq807x_eth_halt: done
eth0 PHY0 Down Speed :10 Half duplex
eth0 PHY1 Down Speed :10 Half duplex
eth0 PHY2 Down Speed :10 Half duplex
eth0 PHY3 Down Speed :10 Half duplex
eth0 PHY4 Down Speed :10 Half duplex
10M speed not supported
ipq807x_eth_init: done
net_loop:496
```

```
Client starts...[Listening] for ADVERTISE...TTT
Retry count exceeded; boot the image as usual
ipq807x_eth_halt: done
```

```
nmrp server is stopped or failed !
Hit any key to stop autoboot: 0
do_boot_unsignedimg:680 runcmd (setenv mtdids nand0=nand0 && setenv
mtdparts mtdparts=nand0:0x4280000@0x3e80000(fs),${msmparts} && ubi part fs
&& ubi read 0x44000000 kernel && ) ubi0: attaching mtd2
ubi0: scanning is finished
ubi0: attached mtd2 (name "mtd=0", size 66 MiB)
ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976 bytes
ubi0: min./max. I/O unit sizes: 2048/2048, sub-page size 2048 ubi0: VID
header offset: 2048 (aligned 2048), data offset: 4096
ubi0: good PEBs: 532, bad PEBs: 0, corrupted PEBs: 0
ubi0: user volume: 3, internal volumes: 1, max. volumes count: 128
ubi0: max/mean erase counter: 30/17, WL threshold: 4096, image sequence
number: 2096380911
ubi0: available PEBs: 0, total reserved PEBs: 532, PEBs reserved for bad
PEB handling: 40
Read 0 bytes from volume kernel to 44000000
No size specified -> Using max size (5967872)
## Loading kernel from FIT Image at 44000028 ...
Using 'config@oak03' configuration
Trying 'kernel@1' kernel subimage
Description: ARM OpenWrt Linux-4.4.60
Type: Kernel Image
Compression: gzip compressed
```

Data Start: 0x4400010c
Data Size: 3979266 Bytes = 3.8 MiB
Architecture: ARM
OS: Linux
Load Address: 0x41208000
Entry Point: 0x41208000
Hash algo: crc32
Hash value: c409a70f
Hash algo: sha1 Hash value: cff8f630299d9af45c20cc21a9aa753c28110bfb
Verifying Hash Integrity ... crc32+ sha1+ OK
Loading fdt from FIT Image at 44000028 ...
Using 'config@oak03' configuration
Trying 'fdt@oak03' fdt subimage
Description: ARM OpenWrt qcom-ipq807x-hkxx device tree blob
Type: Flat Device Tree
Compression: uncompressed
Data Start: 0x444778a0
Data Size: 90191 Bytes = 88.1 KiB
Architecture: ARM
Hash algo: crc32
Hash value: a9023325
Hash algo: sha1
Hash value: b720df344291861ca0a570bf83a58368093231cd
Verifying Hash Integrity ... crc32+ sha1+ OK
Booting using the fdt blob at 0x444778a0
Uncompressing Kernel Image ... OK
Loading Device Tree to 4a3e6000, end 4a3ff04e ... OK
Using machid 0x801000d from environment

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu [ 0.000000] Initializing cgroup
subsys cpuacct
[ 0.000000] Linux version 4.4.60 (rajenkins@4c8cd3d3e6cc) (gcc version
5.2.0 (OpenWrt GCC 5.2.0 rtm-4.6.14.3+r49254) ) #3 SMP PREEMPT Thu Oct 20
18:17:45 UTC 2022 [ 0.000000] CPU: ARMv7 Processor [410fd034] revision 4
(ARMv7), cr=10c0383d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[ 0.000000] Machine model: Qualcomm Technologies, Inc. IPQ807x/AP-OAK03
[ 0.000000] Ignoring memory range 0x40000000 - 0x41000000
[ 0.000000] Reserved memory: OVERLAP DETECTED!
[ 0.000000] wifi_dump@51100000 (0x51100000--0x51700000) overlaps with
wigig_dump@51300000 (0x51300000--0x51700000) [ 0.000000] Memory policy:
Data cache writealloc
[ 0.000000] psci: probing for conduit method from DT.
[ 0.000000] psci: PSCIv1.0 detected in firmware.
[ 0.000000] psci: Using standard PSCI v0.2 function IDs
```