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Kernel Panic 発生時のログ保存

Kernel 等に不具合があり Kernel Panic が発生してしまった場合、ログを取得することが原因解明には必要です。

Kernel Panic が発生して Reboot したときに Kernel のログを保存する機能を設けました。

保存先

eMMC のファームウェアなどを置いてあるパーティションに、日時のディレクトリを作成して保存されます。

Linux が起動してから、下記ディレクトリで確認することができます。

```
user1@gemini:~$ ls -l /ro/.host/
total 16
drwxr-xr-x 2 root root 4096 Jul 27 11:15 area0
drwxr-xr-x 2 root root 4096 Jul  1 11:39 area1
drwxr-xr-x 4 root root 4096 Jan  1 1980 oopslog <-----
drwxr-xr-x 2 root root 4096 Aug  1 18:28 overlay
```

```
user1@gemini:~$ ls -lR /ro/.host/oopslog
/ro/.host/oopslog:
total 8
drwxr-xr-x 2 root root 4096 Jan  1 1980 20200801_183148
drwxr-xr-x 2 root root 4096 Jan  1 1980 20200801_183807

/ro/.host/oopslog/20200801_183148:
total 32
-rwxr-xr-x 1 root root 1723 Jan  1 1980 console-ramoops-0
-rwxr-xr-x 1 root root 25921 Jan  1 1980 dmesg-ramoops-0

/ro/.host/oopslog/20200801_183807:
total 32
-rwxr-xr-x 1 root root 1723 Jan  1 1980 console-ramoops-0
-rwxr-xr-x 1 root root 25921 Jan  1 1980 dmesg-ramoops-0
```

それぞれのファイルの内容は下記の通りです。

File	内容
console-ramoops-0	コンソール出力の再起動前の最後の部分
dmesg-ramoops-0	Kernel log

ファイルの内容

内容はこんな感じになっています。

console-ramoops-0

```
[ 21.916323] systemd[1]: Finished Platform Persistent Storage Archival.
[ 22.025203] tty0tty null modem driver v1.2
[ 22.061465] systemd[1]: Started Journal Service.
[ 23.034117] systemd-journald[388]: Received client request to flush runtime journal.
[ 348.165164] sysrq: Trigger a crash
[ 348.168903] Kernel panic - not syncing: sysrq triggered crash
[ 348.174807] CPU: 0 PID: 825 Comm: bash Not tainted 5.4.41-linux4sam-2020.04+ #31
[ 348.182511] Hardware name: Atmel SAMA5
[ 348.186449] [<c010c58c>] (unwind_backtrace) from [<c0109a98>] (show_stack+0x10/0x14)
[ 348.194528] [<c0109a98>] (show_stack) from [<c011fb50>] (panic+0x104/0x31c)
[ 348.201825] [<c011fb50>] (panic) from [<c0400ca8>] (sysrq_handle_crash+0x10/0x14)
[ 348.209453] [<c0400ca8>] (sysrq_handle_crash) from [<c04012c8>] (__handle_sysrq+0x94/0x144)
[ 348.218132] [<c04012c8>] (__handle_sysrq) from [<c0401710>] (write_sysrq_trigger+0x54/0x64)
[ 348.226811] [<c0401710>] (write_sysrq_trigger) from [<c0251d24>] (proc_reg_write+0x58/0x6c)
[ 348.235493] [<c0251d24>] (proc_reg_write) from [<c01f2350>] (__vfs_write+0x2c/0xe8)
[ 348.243293] [<c01f2350>] (__vfs_write) from [<c01f37e0>] (vfs_write+0x98/0xbc)
[ 348.250838] [<c01f37e0>] (vfs_write) from [<c01f3984>] (ksys_write+0x74/0xc4)
[ 348.258120] [<c01f3984>] (ksys_write) from [<c0101000>] (ret_fast_syscall+0x0/0x54)
[ 348.266085] Exception stack(0xd9dd1fa8 to 0xd9dd1ff0)
[ 348.271453] 1fa0: 00000002 005b7eb0 00000001 005b7eb0 00000002 00000000
[ 348.279770] 1fc0: 00000002 005b7eb0 b6f944e0 00000004 b6f2e2e4 b6f2de4c 00000000 00000000
[ 348.288263] 1fe0: 00000004 be922728 b6ec746f b6e4dbe6
[ 348.333852] Rebooting in 4 seconds..

No errors detected
```

dmesg-ramoops-0

```
====1596274681.584175-D
Panic#1 Part1
<6>[ 0.000000] Booting Linux on physical CPU 0x0
<5>[ 0.000000] Linux version 5.4.41-linux4sam-2020.04+ (root@ryzen7)
(gcc version 9.3.0 (Ubuntu 9.3.0-10ubuntu1)) #31 PREEMPT Sat Aug 1
17:40:50 JST 2020
<6>[ 0.000000] CPU: ARMv7 Processor [410fc051] revision 1 (ARMv7),
cr=10c53c7d
<6>[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT
aliasing instruction cache
<6>[ 0.000000] OF: fdt: Machine model: Century Systems Gemini
<6>[ 0.000000] Memory policy: Data cache writeback
<7>[ 0.000000] On node 0 totalpages: 131072
<7>[ 0.000000] Normal zone: 1152 pages used for memmap
<7>[ 0.000000] Normal zone: 0 pages reserved
<7>[ 0.000000] Normal zone: 131072 pages, LIFO batch:31
<6>[ 0.000000] CPU: All CPU(s) started in SVC mode.
<7>[ 0.000000] pcpu-alloc: s0 r0 d32768 u32768 alloc=1*32768
<7>[ 0.000000] pcpu-alloc: [0] 0
<6>[ 0.000000] Built 1 zonelists, mobility grouping on. Total
pages: 129920
<5>[ 0.000000] Kernel command line: console=ttyS0,115200 alarm=0
area=1 board_id=00 loop=area1/rootfs.img loopfstype=squashfs
mobiledev=AML574A overlay=tmpfs reset_cause=RST root=/dev/mmcblk0p1
rootfstype=vfat ro xio_id=1
<6>[ 0.000000] Dentry cache hash table entries: 65536 (order: 6,
262144 bytes, linear)
<6>[ 0.000000] Inode-cache hash table entries: 32768 (order: 5,
131072 bytes, linear)
<6>[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap
free:off
<6>[ 0.000000] Memory: 505756K/524288K available (6144K kernel code,
274K rwdata, 1724K rodata, 1024K init, 370K bss, 18532K reserved, 0K
cma-reserved)
<6>[ 0.000000] SLUB: Hwalign=64, Order=0-3, MinObjects=0, CPUs=1,
Nodes=1
<6>[ 0.000000] rcu: Preemptible hierarchical RCU implementation.
<6>[ 0.000000] Tasks RCU enabled.
<6>[ 0.000000] rcu: RCU calculated value of scheduler-enlistment
delay is 25 jiffies.
<6>[ 0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
<6>[ 0.000000] L2C-310 ID prefetch enabled, offset 2 lines
<6>[ 0.000000] L2C-310 dynamic clock gating enabled, standby mode
enabled
<6>[ 0.000000] L2C-310 cache controller enabled, 8 ways, 128 kB
<6>[ 0.000000] L2C-310: CACHE_ID 0x410000c9, AUX_CTRL 0x36020000
<5>[ 0.000000] random: get_random_bytes called from
start_kernel+0x254/0x458 with crng_init=0
<6>[ 0.000000] clocksource: timer@f800c000: mask: 0xffffffff
```

```
max_cycles: 0xffffffff, max_idle_ns: 184217874325 ns
<6>[ 0.000019] sched_clock: 32 bits at 10MHz, resolution 96ns, wraps
every 206986376143ns
<6>[ 0.000046] Switching to timer-based delay loop, resolution 96ns
<6>[ 0.018500] clocksource: pit: mask: 0x3fffffff max_cycles:
0x3fffffff, max_idle_ns: 5756808488 ns
<6>[ 0.019124] Console: colour dummy device 80x30
<6>[ 0.019217] Calibrating delay loop (skipped), value calculated
using timer frequency.. 20.75 BogoMIPS (lpj=41500)
<6>[ 0.019251] pid_max: default: 32768 minimum: 301
<6>[ 0.019715] Mount-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
<6>[ 0.019755] Mountpoint-cache hash table entries: 1024 (order: 0,
4096 bytes, linear)
<6>[ 0.022094] CPU: Testing write buffer coherency: ok
<6>[ 0.024452] Setting up static identity map for 0x20100000 -
0x20100060
<6>[ 0.024836] rcu: Hierarchical SRCU implementation.
<6>[ 0.025854] devtmpfs: initialized
<6>[ 0.044439] VFP support v0.3: implementor 41 architecture 2 part
30 variant 5 rev 1
<6>[ 0.045466] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 7645041785100000 ns
<6>[ 0.045521] futex hash table entries: 256 (order: -1, 3072 bytes,
linear)
<6>[ 0.045917] pinctrl core: initialized pinctrl subsystem
<6>[ 0.048583] NET: Registered protocol family 16
<6>[ 0.050555] DMA: preallocated 256 KiB pool for atomic coherent
allocations
<6>[ 0.053877] cpuidle: using governor menu
<6>[ 0.080798] AT91: PM: standby: standby, suspend: ulp0
<4>[ 0.081346] atmel_tcb: probe of f800c000.timer failed with error
-16
<3>[ 0.081653] atmel_tcb f8010000.timer: IRQ index 1 not found
<3>[ 0.081692] atmel_tcb f8010000.timer: IRQ index 2 not found
<6>[ 0.208799] printk: console [pstore-1] enabled
<6>[ 0.209596] pstore: Registered ramoops as persistent store
backend
<6>[ 0.210015] ramoops: using 0x100000@0x3fecc000, ecc: 16
<6>[ 0.239571] cryptd: max_cpu_qlen set to 1000
<6>[ 0.279062] at_xdmac f0010000.dma-controller: 16 channels, mapped
at 0x(ptrval)
<6>[ 0.283518] at_xdmac f0004000.dma-controller: 16 channels, mapped
at 0x(ptrval)
<6>[ 0.285697] AT91: Detected SoC family: sama5d2
<6>[ 0.286124] AT91: Detected SoC: sama5d26, revision 2
<5>[ 0.287838] SCSI subsystem initialized
<6>[ 0.288940] usbcore: registered new interface driver usbfs
<6>[ 0.289477] usbcore: registered new interface driver hub
<6>[ 0.289949] usbcore: registered new device driver usb
<6>[ 0.291778] pps_core: LinuxPPS API ver. 1 registered
```

```
<6>[ 0.292130] pps_core: Software ver. 5.3.6 - Copyright 2005-2007
Rodolfo Giometti <giometti@linux.it>
<6>[ 0.292608] PTP clock support registered
<6>[ 0.295826] clocksource: Switched to clocksource timer@f800c000
<6>[ 0.326734] NET: Registered protocol family 2
<6>[ 0.328708] tcp_listen_portaddr_hash hash table entries: 512
(order: 0, 4096 bytes, linear)
<6>[ 0.329188] TCP established hash table entries: 4096 (order: 2,
16384 bytes, linear)
<6>[ 0.329661] TCP bind hash table entries: 4096 (order: 2, 16384
bytes, linear)
<6>[ 0.329951] TCP: Hash tables configured (established 4096 bind
4096)
<6>[ 0.330678] UDP hash table entries: 256 (order: 0, 4096 bytes,
linear)
<6>[ 0.330944] UDP-Lite hash table entries: 256 (order: 0, 4096
bytes, linear)
<6>[ 0.332093] NET: Registered protocol family 1
<6>[ 0.333772] RPC: Registered named UNIX socket transport module.
<6>[ 0.334198] RPC: Registered udp transport module.
<6>[ 0.334410] RPC: Registered tcp transport module.
<6>[ 0.334801] RPC: Registered tcp NFSv4.1 backchannel transport
module.
<6>[ 0.335599] Unpacking initramfs...
<5>[ 1.035895] random: fast init done
<6>[ 2.780667] Freeing initrd memory: 2404K
<5>[ 3.023240] Initialise system trusted keyrings
<6>[ 3.024523] workingset: timestamp_bits=14 max_order=17
bucket_order=3
<6>[ 3.046628] squashfs: version 4.0 (2009/01/31) Phillip Lougher
<6>[ 3.050457] fuse: init (API version 7.31)
<5>[ 3.152852] Key type asymmetric registered
<5>[ 3.153111] Asymmetric key parser 'x509' registered
<6>[ 3.153553] io scheduler mq-deadline registered
<6>[ 3.153772] io scheduler kyber registered
<6>[ 3.154732] io scheduler bfq registered
<6>[ 3.177070] pinctrl-at91-pio4 fc038000.pinctrl: atmel pinctrl
initialized
<6>[ 3.185929] HDLC line discipline maxframe=4096
<6>[ 3.186171] N_HDLC line discipline registered.
<6>[ 3.214288] loop: module loaded
<6>[ 3.216209] atmel_uart_serial.0.auto: ttyS0 at MMIO 0xf8020000
(irq = 34, base_baud = 5187500) is a ATMEL_SERIAL
<6>[ 3.780368] printk: console [ttyS0] enabled
<6>[ 3.787322] atmel_uart_serial.1.auto: ttyS1 at MMIO 0xfc008000
(irq = 37, base_baud = 5187500) is a ATMEL_SERIAL
<6>[ 3.802347] atmel_uart_serial atmel_uart_serial.2.auto: Using
FIFO (32 data)
<6>[ 3.810628] atmel_uart_serial.2.auto: ttyS2 at MMIO 0xf8034200
(irq = 174, base_baud = 5187500) is a ATMEL_SERIAL
<6>[ 3.825573] atmel_uart_serial atmel_uart_serial.3.auto: Using
```

```
FIFO (32 data)
<6>[ 3.833663] atmel_usart_serial.3.auto: ttyS3 at MMIO 0xfc010200
(irq = 175, base_baud = 5187500) is a ATMEL_SERIAL
<6>[ 3.850505] atmel_spi f8000000.spi: Using dma0chan0 (tx) and
dma0chan1 (rx) for DMA transfers
<6>[ 3.859737] atmel_spi f8000000.spi: Using FIFO (16 data)
<6>[ 3.868212] spi-nor spi0.0: sst26vf016b (2048 Kbytes)
<5>[ 3.873786] 6 fixed-partitions partitions found on MTD device
spi0.0
<5>[ 3.880341] Creating 6 MTD partitions on "spi0.0":
<5>[ 3.885495] 0x000000000000-0x000000008000 : "at91boot"
<5>[ 3.897979] 0x000000008000-0x000000010000 : "barebox.env"
<5>[ 3.913960] 0x000000010000-0x000000090000 : "barebox.bin"
<5>[ 3.930048] 0x000000090000-0x0000000b0000 : "hist_firmup"
<5>[ 3.946004] 0x0000000b0000-0x000000100000 : "hist_boot"
<5>[ 3.961964] 0x000000100000-0x000000200000 : "Reserved"
<6>[ 3.978103] atmel_spi f8000000.spi: Atmel SPI Controller version
0x311 at 0xf8000000 (irq 28)
<6>[ 3.988671] atmel_spi fc018400.spi: Using dma0chan2 (tx) and
dma0chan3 (rx) for DMA transfers
<6>[ 3.997769] atmel_spi fc018400.spi: Using FIFO (32 data)
<6>[ 4.006117] spi-nor spi1.0: sst26vf016b (2048 Kbytes)
<6>[ 4.022113] atmel_spi fc018400.spi: Atmel SPI Controller version
0x311 at 0xfc018400 (irq 176)
<6>[ 4.032857] libphy: Fixed MDIO Bus: probed
<6>[ 4.038269] tun: Universal TUN/TAP device driver, 1.6
<6>[ 4.046398] libphy: MACB_mii_bus: probed
<6>[ 4.068669] macb f8008000.ethernet eth0: Cadence GEM rev
0x00020203 at 0xf8008000 irq 29 (00:80:6d:01:01:01)
<6>[ 4.080474] PPP generic driver version 2.4.2
<6>[ 4.085704] PPP BSD Compression module registered
<6>[ 4.090675] PPP Deflate Compression module registered
<6>[ 4.096082] NET: Registered protocol family 24
<6>[ 4.100757] PPTP driver version 0.8.5
<6>[ 4.106277] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI)
Driver
<6>[ 4.113072] ehci-atmel: EHCI Atmel driver
<6>[ 4.117782] atmel-ehci 500000.ehci: EHCI Host Controller
<6>[ 4.124334] atmel-ehci 500000.ehci: new USB bus registered,
assigned bus number 1
<6>[ 4.132577] atmel-ehci 500000.ehci: irq 19, io mem 0x00500000
<6>[ 4.151926] atmel-ehci 500000.ehci: USB 2.0 started, EHCI 1.00
<6>[ 4.158650] usb usb1: New USB device found, idVendor=1d6b,
idProduct=0002, bcdDevice= 5.04
<6>[ 4.167150] usb usb1: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
<6>[ 4.174736] usb usb1: Product: EHCI Host Controller
<6>[ 4.179782] usb usb1: Manufacturer: Linux 5.4.41-
linux4sam-2020.04+ ehci_hcd
<6>[ 4.187175] usb usb1: SerialNumber: 500000.ehci
<6>[ 4.193464] hub 1-0:1.0: USB hub found
```



```
<6>[ 4.197882] hub 1-0:1.0: 3 ports detected
<6>[ 4.204460] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI)
Driver
<6>[ 4.211149] ohci-atmel: OHCI Atmel driver
<6>[ 4.217182] at91_ohci 400000.ohci: USB Host Controller
<6>[ 4.223588] at91_ohci 400000.ohci: new USB bus registered,
assigned bus number 2
<6>[ 4.231543] at91_ohci 400000.ohci: irq 19, io mem 0x00400000
<6>[ 4.300415] usb usb2: New USB device found, idVendor=1d6b,
idProduct=0001, bcdDevice= 5.04
<6>[ 4.309251] usb usb2: New USB device strings: Mfr=3, Product=2,
SerialNumber=1
<6>[ 4.316861] usb usb2: Product: USB Host Controller
<6>[ 4.321826] usb usb2: Manufacturer: Linux 5.4.41-
linux4sam-2020.04+ ohci_hcd
<6>[ 4.329223] usb usb2: SerialNumber: at91
<6>[ 4.334882] hub 2-0:1.0: USB hub found
<6>[ 4.339280] hub 2-0:1.0: 3 ports detected
<6>[ 4.352689] usbcore: registered new interface driver cdc_wdm
<6>[ 4.359116] usbcore: registered new interface driver usb-storage
<6>[ 4.365686] usbcore: registered new interface driver
usbserial_generic
<6>[ 4.372711] usbserial: USB Serial support registered for generic
<6>[ 4.379035] usbcore: registered new interface driver option
<6>[ 4.385084] usbserial: USB Serial support registered for GSM
modem (1-port)
<6>[ 4.392629] i2c /dev entries driver
<6>[ 4.397732] at91-reset f8048000.rstc: Starting after software
reset
<6>[ 4.407626] sama5d4_wdt f8048040.watchdog: initialized (timeout =
16 sec, nowayout = 0)
<6>[ 4.418450] sdhci: Secure Digital Host Controller Interface
driver
<6>[ 4.424928] sdhci: Copyright(c) Pierre Ossman
<6>[ 4.429642] sdhci-pltfm: SDHCI platform and OF driver helper
<6>[ 4.471651] mmc0: SDHCI controller on a0000000.sdio-host
[a0000000.sdio-host] using ADMA
<6>[ 4.496218] ledtrig-cpu: registered to indicate activity on CPUs
<6>[ 4.503349] atmel_aes f002c000.aes: version: 0x500
<6>[ 4.512207] atmel_sha f0028000.sha: version: 0x510
<6>[ 4.517632] atmel_sha f0028000.sha: using dma0chan4 for DMA
transfers
<6>[ 4.544338] usb 1-2: new high-speed USB device number 2 using
atmel-ehci
<6>[ 4.567099] mmc0: new high speed MMC card at address 0001
<6>[ 4.581635] mmcblk0: mmc0:0001 Q2J54A 1.80 GiB
<6>[ 4.593078] mmcblk0boot0: mmc0:0001 Q2J54A partition 1 16.0 MiB
<6>[ 4.609064] mmcblk0boot1: mmc0:0001 Q2J54A partition 2 16.0 MiB
<6>[ 4.618711] mmcblk0rpmb: mmc0:0001 Q2J54A partition 3 512 KiB,
chardev (246:0)
<6>[ 4.649118] mmcblk0: p1 p2
```

```
<6>[ 4.713929] usb 1-2: New USB device found, idVendor=1618,
idProduct=9116, bcdDevice= 0.02
<6>[ 4.732142] usb 1-2: New USB device strings: Mfr=1, Product=2,
SerialNumber=6
<6>[ 4.745095] usb 1-2: Product: Wireless USB Network Module
<6>[ 4.756302] usb 1-2: Manufacturer: Redpine Signals, Inc.
<6>[ 4.768128] usb 1-2: SerialNumber: 000000000001
<6>[ 4.797581] atmel_sha f0028000.sha: Atmel
SHA1/SHA256/SHA224/SHA384/SHA512
<6>[ 4.806211] atmel_tdes fc044000.tdes: version: 0x703
<6>[ 4.812310] atmel_tdes fc044000.tdes: using dma0chan5, dma0chan6
for DMA transfers
<6>[ 4.976756] atmel_tdes fc044000.tdes: Atmel DES/TDES
<6>[ 4.982888] usbcore: registered new interface driver usbhid
<6>[ 4.989091] usbhid: USB HID core driver
<6>[ 5.044352] wireguard: WireGuard 1.0.20200712 loaded. See
www.wireguard.com for information.
<6>[ 5.053338] wireguard: Copyright (C) 2015-2019 Jason A. Donenfeld
<Jason@zx2c4.com>. All Rights Reserved.
<6>[ 5.064056] ipip: IPv4 and MPLS over IPv4 tunneling driver
<6>[ 5.071106] gre: GRE over IPv4 demultiplexor driver
<6>[ 5.076566] ip_gre: GRE over IPv4 tunneling driver
<6>[ 5.087781] NET: Registered protocol family 10
<6>[ 5.097033] Segment Routing with IPv6
<6>[ 5.101643] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver
<6>[ 5.109610] NET: Registered protocol family 17
<6>[ 5.114670] 8021q: 802.1Q VLAN Support v1.8
<5>[ 5.262712] Loading compiled-in X.509 certificates
<6>[ 5.286041] at91_i2c f8028000.i2c: can't get DMA channel,
continue without DMA support
<6>[ 5.294604] at91_i2c f8028000.i2c: Using FIFO (16 data)
<6>[ 5.300394] at91_i2c f8028000.i2c: recovery information
incomplete
<6>[ 5.309170] DCDC_REG1: supplied by regulator-dummy
<6>[ 5.317607] DCDC_REG2: supplied by regulator-dummy
<6>[ 5.326294] DCDC_REG3: supplied by regulator-dummy
<6>[ 5.334540] LDO_REG1: supplied by regulator-dummy
<6>[ 5.342874] LDO_REG2: supplied by regulator-dummy
<6>[ 5.350916] LDO_REG3: supplied by regulator-dummy
<6>[ 5.356689] VDD_LED: Bringing 2500000uV into 3300000-3300000uV
<6>[ 5.367404] LDO_REG4: supplied by regulator-dummy
<4>[ 5.376885] act8945a-charger act8945a-charger: DMA mask not set
<6>[ 5.383666] act8945a-charger act8945a-charger: have been
suspended
<6>[ 5.393924] at91_i2c f8028000.i2c: AT91 i2c bus driver (hw
version: 0x704).
<6>[ 5.401980] at91_i2c fc028000.i2c: can't get DMA channel,
continue without DMA support
<6>[ 5.410363] at91_i2c fc028000.i2c: Using FIFO (16 data)
<6>[ 5.415970] at91_i2c fc028000.i2c: recovery information
incomplete
```

```
<6>[ 5.425206] at24 1-0050: 256 byte 24c02 EEPROM, writable, 16
bytes/write
<6>[ 5.433407] rtc-dsk324sr 1-0032: chip found, driver version 2.0
<6>[ 5.445629] rtc-dsk324sr 1-0032: registered as rtc0
<6>[ 5.451637] rtc-dsk324sr 1-0032: SEL Register updated to 30s.
<6>[ 5.462165] lm75 1-0049: hwmon1: sensor 'tmp75'
<4>[ 5.468286] pca953x 1-0070: 1-0070 supply vcc not found, using
dummy regulator
<6>[ 5.478451] at91_i2c fc028000.i2c: AT91 i2c bus driver (hw
version: 0x704).
<6>[ 5.526039] mmc1: SDHCI controller on b0000000.sdio-host
[b0000000.sdio-host] using ADMA
<6>[ 5.546161] atmel_aes f002c000.aes: version: 0x500
<6>[ 5.805501] atmel_aes f002c000.aes: Atmel AES - Using dma0chan7,
dma0chan8 for DMA transfers
<6>[ 5.822307] at91-sama5d2_adc fc030000.adc: setting up trigger as
external_rising
<6>[ 5.830129] at91-sama5d2_adc fc030000.adc: version: 800
<6>[ 5.837622] input: gpio_keys as
/devices/platform/gpio_keys/input/input0
<6>[ 5.847636] rtc-dsk324sr 1-0032: setting system clock to
2020-08-01T09:32:19 UTC (1596274339)
<6>[ 5.858399] atmel_usart_serial atmel_usart_serial.0.auto: using
dma0chan9 for rx DMA transfers
<6>[ 5.867799] atmel_usart_serial atmel_usart_serial.0.auto: using
dma0chan10 for tx DMA transfers
<6>[ 5.884816] Freeing unused kernel memory: 1024K
<6>[ 5.889895] Run /init as init process
<6>[ 10.268108] usb 1-1: new high-speed USB device number 3 using
atmel-ehci
<6>[ 10.444156] usb 1-1: New USB device found, idVendor=1ecb,
idProduct=0202, bcdDevice= 3.18
<6>[ 10.452779] usb 1-1: New USB device strings: Mfr=1, Product=2,
SerialNumber=3
<6>[ 10.460119] usb 1-1: Product: AMTelecom Network Device
<6>[ 10.465632] usb 1-1: Manufacturer: AMTelecom
<6>[ 10.470097] usb 1-1: SerialNumber: 0123456789ABCDEF
<6>[ 10.488868] option 1-1:1.2: GSM modem (1-port) converter detected
<6>[ 10.500273] usb 1-1: GSM modem (1-port) converter now attached to
ttyUSB0
<6>[ 10.512403] option 1-1:1.3: GSM modem (1-port) converter detected
<6>[ 10.522008] usb 1-1: GSM modem (1-port) converter now attached to
ttyUSB1
<6>[ 10.534389] option 1-1:1.4: GSM modem (1-port) converter detected
<6>[ 10.544141] usb 1-1: GSM modem (1-port) converter now attached to
ttyUSB2
<4>[ 11.988701] FAT-fs (mmcblk0p1): utf8 is not a recommended IO
charset for FAT filesystems, filesystem will be case sensitive!
<30>[ 15.398116] systemd[1]: systemd 245.4-4ubuntu3.2 running in
system mode. (+PAM +AUDIT +SELINUX +IMA +APPARMOR +SMACK +SYSVINIT
+UTMP +LIBCRYPTSETUP +GCRYPT +GNUTLS +ACL +XZ +LZ4 +SECCOMP +BLKID
```

```
+ELFUTILS +KMOD +IDN2 -IDN +PCRE2 default-hierarchy=hybrid)
<30>[ 15.422846] systemd[1]: Detected architecture arm.
<30>[ 15.529943] systemd[1]: Set hostname to <gemini>.
<29>[ 17.675106] systemd[1]: /lib/systemd/system/dbus.socket:5:
ListenStream= references a path below legacy directory /var/run/,
updating /var/run/dbus/system_bus_socket → /run/dbus/system_bus_socket;
please update the unit file accordingly.
<5>[ 18.464878] random: systemd: uninitialized urandom read (16 bytes
read)
<28>[ 18.472788] systemd[1]: system-getty.slice: unit configures an
IP firewall, but the local system does not support BPF/cgroup
firewalling.
<28>[ 18.485816] systemd[1]: (This warning is only shown for the
first unit using IP firewalling.)
<30>[ 18.507636] systemd[1]: Created slice system-getty.slice.
<5>[ 18.532699] random: systemd: uninitialized urandom read (16 bytes
read)
<30>[ 18.545195] systemd[1]: Created slice system-modprobe.slice.
<5>[ 18.568482] random: systemd: uninitialized urandom read (16 bytes
read)
<30>[ 18.581224] systemd[1]: Created slice system-
serial\x2dgetty.slice.
<30>[ 18.610968] systemd[1]: Created slice system-wireguard.slice.
<30>[ 18.641406] systemd[1]: Created slice User and Session Slice.
<30>[ 18.665272] systemd[1]: Started ntp-systemd-netif.path.
<30>[ 18.689624] systemd[1]: Started Dispatch Password Requests to
Console Directory Watch.
<30>[ 18.717516] systemd[1]: Started Forward Password Requests to
Wall Directory Watch.
<30>[ 18.748077] systemd[1]: Set up automount Arbitrary Executable
File Formats File System Automount Point.
<30>[ 18.777112] systemd[1]: Reached target Local Encrypted Volumes.
<30>[ 18.801397] systemd[1]: Reached target Remote File Systems.
<30>[ 18.824849] systemd[1]: Reached target Slices.
<30>[ 18.844874] systemd[1]: Reached target Swap.
<30>[ 18.867818] systemd[1]: Listening on Syslog Socket.
<30>[ 18.889876] systemd[1]: Listening on initctl Compatibility Named
Pipe.
<30>[ 19.266999] systemd[1]: Condition check resulted in Journal
Audit Socket being skipped.
<30>[ 19.280387] systemd[1]: Listening on Journal Socket (/dev/log).
<30>[ 19.306748] systemd[1]: Listening on Journal Socket.
<30>[ 19.330935] systemd[1]: Listening on udev Control Socket.
<30>[ 19.353891] systemd[1]: Listening on udev Kernel Socket.
<30>[ 19.378502] systemd[1]: Condition check resulted in Huge Pages
File System being skipped.
<30>[ 19.404907] systemd[1]: Mounting POSIX Message Queue File
System...
<30>[ 19.479690] systemd[1]: Mounting Kernel Debug File System...
<30>[ 19.522312] systemd[1]: Condition check resulted in Kernel Trace
File System being skipped.
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<30>[ 19.627266] systemd[1]: Starting Journal Service...
<30>[ 19.683104] systemd[1]: Condition check resulted in Create list
of static device nodes for the current kernel being skipped.
<30>[ 19.823063] systemd[1]: Starting Load Kernel Module drm...
<30>[ 19.945619] systemd[1]: Condition check resulted in Set Up
Additional Binary Formats being skipped.
<30>[ 20.037289] systemd[1]: Starting Load Kernel Modules...
<30>[ 20.146906] systemd[1]: Starting Remount Root and Kernel File
Systems...
<30>[ 20.271089] systemd[1]: Starting udev Coldplug all Devices...
<30>[ 20.517458] systemd[1]: Mounted POSIX Message Queue File System.
<30>[ 20.566849] systemd[1]: Mounted Kernel Debug File System.
<30>[ 20.662173] systemd[1]: modprobe@drm.service: Succeeded.
<30>[ 20.738113] systemd[1]: Finished Load Kernel Module drm.
<30>[ 20.924262] systemd[1]: Finished Remount Root and Kernel File
Systems.
<30>[ 20.989884] systemd[1]: Condition check resulted in Rebuild
Hardware Database being skipped.
<30>[ 21.106823] systemd[1]: Starting Platform Persistent Storage
Archival...
<30>[ 21.284515] systemd[1]: Starting Load/Save Random Seed...
<30>[ 21.463320] systemd[1]: Starting Create System Users...
<30>[ 21.916323] systemd[1]: Finished Platform Persistent Storage
Archival.
<6>[ 22.025203] tty0tty null modem driver v1.2
<30>[ 22.061465] systemd[1]: Started Journal Service.
<46>[ 23.034117] systemd-journald[388]: Received client request to
flush runtime journal.
<5>[ 23.580066] random: crng init done
<5>[ 23.580093] random: 7 urandom warning(s) missed due to
ratelimiting
<6>[ 31.696082] bpfILTER: Loaded bpfILTER_umh pid 454
<12>[ 31.704808] Started bpfILTER
<5>[ 34.495753] cfg80211: Loading compiled-in X.509 certificates for
regulatory database
<5>[ 35.061766] cfg80211: Loaded X.509 cert 'sforshee:
00b28ddf47aef9cea7'
<6>[ 37.106977] macb f8008000.ethernet eth0: PHY [f8008000.ethernet-
ffffffff:01] driver [Micrel KSZ8081 or KSZ8091]
<6>[ 37.120958] macb f8008000.ethernet eth0: configuring for phy/rmi
link mode
<6>[ 40.142755] macb f8008000.ethernet eth0: Link is Up -
100Mbps/Full - flow control off
<6>[ 40.142905] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes
ready
<6>[ 40.812281] at91_rtc f80480b0.rtc: registered as rtc1
<6>[ 40.813963] at91_rtc f80480b0.rtc: AT91 Real Time Clock driver.
<6>[ 40.910881] cdc_acm 1-1:1.0: ttyACM0: USB ACM device
<6>[ 41.028482] usbcore: registered new interface driver cdc_acm
<6>[ 41.028500] cdc_acm: USB Abstract Control Model driver for USB
modems and ISDN adapters
```

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<6>[ 43.985581] atmel_usart_serial atmel_usart_serial.0.auto: using
dma0chan9 for rx DMA transfers
<6>[ 43.985705] atmel_usart_serial atmel_usart_serial.0.auto: using
dma0chan10 for tx DMA transfers
<6>[ 53.624316] Bluetooth: Core ver 2.22
<6>[ 53.631910] NET: Registered protocol family 31
<6>[ 53.631937] Bluetooth: HCI device and connection manager
initialized
<6>[ 53.631989] Bluetooth: HCI socket layer initialized
<6>[ 53.632014] Bluetooth: L2CAP socket layer initialized
<6>[ 53.632212] Bluetooth: SCO socket layer initialized
<6>[ 53.712240] rsi_91x: rsi_hal_device_init: oper_mode = 1,
coex_mode = 1
<6>[ 53.763855] rsi_91x:
=====
<6>[ 53.763874] rsi_91x: ===== RSI Version Info
=====
<6>[ 53.763881] rsi_91x:
=====
<6>[ 53.763901] rsi_91x: FW Version : 1610.1.2.23.0017
<6>[ 53.763912] rsi_91x: Driver Version :
RS911X.NBZ.NL.GNU.LNX.2.0.RC6
<6>[ 53.763921] rsi_91x: Operating mode : 1 [Wi-Fi alone]
<6>[ 53.763930] rsi_91x: Firmware file : pmemdata
<6>[ 53.763937] rsi_91x:
=====
<6>[ 53.901244] rsi_91x: ***** Firmware Loading successful *****
<6>[ 53.915384] usbcore: registered new interface driver RSI-USB WLAN
<6>[ 348.165164] sysrq: Trigger a crash
<0>[ 348.168903] Kernel panic - not syncing: sysrq triggered crash
<4>[ 348.174807] CPU: 0 PID: 825 Comm: bash Not tainted 5.4.41-
linux4sam-2020.04+ #31
<4>[ 348.182511] Hardware name: Atmel SAMA5
<4>[ 348.186449] [<c010c58c>] (unwind_backtrace) from [<c0109a98>]
(show_stack+0x10/0x14)
<4>[ 348.194528] [<c0109a98>] (show_stack) from [<c011fb50>]
(panic+0x104/0x31c)
<4>[ 348.201825] [<c011fb50>] (panic) from [<c0400ca8>]
(sysrq_handle_crash+0x10/0x14)
<4>[ 348.209453] [<c0400ca8>] (sysrq_handle_crash) from [<c04012c8>]
(__handle_sysrq+0x94/0x144)
<4>[ 348.218132] [<c04012c8>] (__handle_sysrq) from [<c0401710>]
(write_sysrq_trigger+0x54/0x64)
<4>[ 348.226811] [<c0401710>] (write_sysrq_trigger) from [<c0251d24>]
(proc_reg_write+0x58/0x6c)
<4>[ 348.235493] [<c0251d24>] (proc_reg_write) from [<c01f2350>]
(__vfs_write+0x2c/0xe8)
<4>[ 348.243293] [<c01f2350>] (__vfs_write) from [<c01f37e0>]
(vfs_write+0x98/0xbc)
<4>[ 348.250838] [<c01f37e0>] (vfs_write) from [<c01f3984>]
(ksys_write+0x74/0xc4)
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<4>[ 348.258120] [<c01f3984>] (ksys_write) from [<c0101000>]
(ret_fast_syscall+0x0/0x54)
<4>[ 348.266085] Exception stack(0xd9dd1fa8 to 0xd9dd1ff0)
<4>[ 348.271453] 1fa0: 00000002 005b7eb0 00000001
005b7eb0 00000002 00000000
<4>[ 348.279770] 1fc0: 00000002 005b7eb0 b6f944e0 00000004 b6f2e2e4
b6f2de4c 00000000 00000000
<4>[ 348.288263] 1fe0: 00000004 be922728 b6ec746f b6e4dbe6
```

No errors detected

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