

产品硬件设计及装配 - 错误 #3643

横联板卡一块很容易发生IO错误，多次启动后可能正确。需硬件帮忙排查下

2025-07-01 09:50 - 战 弋戈

状态:	新建	开始日期:	2025-07-01
优先级:	普通	计划完成日期:	
指派给:	申 江欣	% 完成:	0%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
描述			
[2.769814] attempt to access beyond end of device			
[2.769814] ram0: rw=2049, want=1152921504606969768, limit=20000000			
[2.780811] Buffer I/O error on dev ram0, logical block 144115188075871220, lost async page write			
[2.806781] attempt to access beyond end of device			
[2.806781] ram0: rw=2049, want=1152921504607005024, limit=20000000			
[2.817775] Buffer I/O error on dev ram0, logical block 144115188075875627, lost async page write			
[2.870822] Unable to handle kernel NULL pointer dereference at virtual address 0000000000000020			
[2.879569] Mem abort info:			
[2.882349] ESR = 0x96000005			
[2.885387] EC = 0x25: DABT (current EL), IL = 32 bits			
[2.890672] SET = 0, FnV = 0			
[2.893710] EA = 0, S1PTW = 0			
[2.896833] Data abort info:			
[2.899699] ISV = 0, ISS = 0x00000005			
[2.903514] CM = 0, WnR = 0			
[2.906465] [0000000000000020] user address but active_mm is swapper			
[2.912791] Internal error: Oops: 96000005 [#1] SMP			
[2.917641] Modules linked in:			
[2.920680] CPU: 4 PID: 1 Comm: swapper/0 Tainted: G S 5.10.165-v8 #37			
[2.928468] Hardware name: smartlogic,ucp2 (DT)			
[2.932974] pstate: 20000005 (nzCv daif PAN-UAO-TCO-BTYPE=-)			
[2.938956] pc : brd_insert_page.part.13+0xd0/0x100			
[2.943807] lr : brd_insert_page.part.13+0xc8/0x100			
[2.948657] sp : fffffc010edb4c0			
[2.951952] x29: fffffc010edb4c0 x28: 0000000000000000			
[2.957237] x27: 000000000003cc00 x26: 0000000000000000			
[2.962522] x25: ffffff81002b9780 x24: 0000000000000000			
[2.967805] x23: fffffff0413b540 x22: ffffff81002b97b0			
[2.973090] x21: 0000000000007980 x20: 0200000000000000			
[2.978374] x19: ffffff81002b9780 x18: 0000000000000000			
[2.983657] x17: 00000000000000c0 x16: fffffff044c3180			
[2.988941] x15: 0000000000000001 x14: 0000000000000002			
[2.994226] x13: 0000000002d4b15 x12: 0000000000000010			
[2.999510] x11: 0000000000000040 x10: ffffff81002b97b8			
[3.004793] x9 : ffffff81002b97b0 x8 : ffffff8102b65dd0			
[3.010078] x7 : 0000000000000000 x6 : 0000000000000000			
[3.015362] x5 : ffffff8102b65da8 x4 : ffffff8102b65dd0			
[3.020646] x3 : 0000000000000000 x2 : 0000000000000000			
[3.025930] x1 : 0000000000007980 x0 : 0200000000000000			
[3.031215] Call trace:			
[3.033647] brd_insert_page.part.13+0xd0/0x100			
[3.038153] brd_do_bvec+0x274/0x298			
[3.041708] brd_submit_bio+0xb8/0x1c0			
[3.045436] submit_bio_noacct+0x10c/0x3f0			
[3.049510] submit_bio+0x44/0x1a8			
[3.052894] submit_bh_wbc.isra.58+0x15c/0x1b8			
[3.057313] __block_write_full_page+0x1f4/0x520			
[3.061905] block_write_full_page+0x78/0x110			
[3.066239] blkdev_writepage+0x18/0x20			
[3.070054] __writepage+0x1c/0x98			
[3.073435] write_cache_pages+0x290/0x3c8			
[3.077509] generic_writepages+0x5c/0x98			

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[ 3.081496] blkdev_writepages+0xc/0x18
[ 3.085310] do_writepages+0x54/0x100
[ 3.088951] __filemap_fdatawrite_range+0xa8/0xc0
[ 3.093629] filemap_write_and_wait_range+0x30/0xa0
[ 3.098480] __sync_blockdev+0x24/0x40
[ 3.102208] set_blocksize+0x7c/0xd8
[ 3.105763] sb_set_blocksize+0x1c/0x68
[ 3.109577] sb_min_blocksize+0x34/0x58
[ 3.113392] ext4_fill_super+0x154/0x2cc8
[ 3.117378] mount_bdev+0x1a4/0x1e0
[ 3.120848] ext4_mount+0x14/0x20
[ 3.124143] legacy_get_tree+0x2c/0x58
[ 3.127872] vfs_get_tree+0x28/0xc0
[ 3.131342] path_mount+0x65c/0xa48
[ 3.134812] init_mount+0x6c/0xb0
[ 3.138107] mount_block_root+0x1bc/0x348
[ 3.142094] mount_root+0x74/0x84
[ 3.145389] prepare_namespace+0x138/0x178
[ 3.149462] kernel_init_freeable+0x288/0x2b4
[ 3.153797] kernel_init+0x10/0x110
[ 3.157266] ret_from_fork+0x10/0x1c
[ 3.160823] Code: aa1603e0 97fbaff9 aa0003f4 b4000080 (f9401000)
[ 3.166888] ---[ end trace c7c07fe615e0492d ]---
[ 3.171488] Kernel panic - not syncing: Attempted to kill init! exitcode=0x0000000b
[ 3.179104] SMP: stopping secondary CPUs
[ 3.183007] Kernel Offset: disabled
[ 3.186475] CPU features: 0x28040022,61006008
[ 3.190807] Memory Limit: none
[ 3.193847] ---[ end Kernel panic - not syncing: Attempted to kill init! exitcode=0x0000000b ]---
```

历史记录

#1 - 2025-07-01 16:29 - 申江欣

- 指派给从 申江欣 变更为 战弋戈

1.目前判断，该问题与国产DDR4的访问速度有关，需要弋戈看一下，DDR速率软件是否可以更改成2666？

#2 - 2025-07-07 15:39 - 战弋戈

- 文件2666.png 已添加

```

u U-Boot 2018.11-rc2 (Jun 21 2025 - 18:42:14 +0800)
6
Clock Configuration:
CPU A72(PLL0): 1800 MHz
APE(PLL1): 1400 MHz
Bus(PLL2): 1000 MHz
SDIO/GMAC(PLL3): 1000 MHz
Model: Smartlogic ucp4008 EVB
DRAM: get_ddr_freq(): 0
UCP4008 ddr4 reset
ddr4_init start
ddr4_init 2666 MT/Mbps start---
Info: Polling UctWriteProtShadow, bit0 ...
Right sequence:
1: Init device
2: Read enable
3: Fine write leveling
4: Read dq deskew
5: MPR read delay center
6: Write leveling coarse
7: Write delay center
8: Read delay center
9: Max read latency
PMU Major Msg: Firmware run has completed
Info: Mail Box = 7

```

是2666. 我重新烧写试试。

#3 - 2025-07-07 15:58 - 战 弋 戈

重新烧录也不行，还是不能启动，信息如下：

U-Boot 2018.11-rc2 (Apr 27 2025 - 15:47:33 +0800)

```

Clock Configuration:
CPU A72: 1800 MHz
APE: 1400 MHz
Bus(PLL2): 1000 MHz
SDIO/GMAC: 1000 MHz
Model: Smartlogic ucp4008 EVB
DRAM: get_ddr_freq(): 0
UCP4008 ddr4 reset
ddr4_init start
ddr4_init 2666 MT/Mbps start---
Info: Polling UctWriteProtShadow, bit0 ...
Right sequence:
1: Init device
2: Read enable
3: Fine write leveling
4: Read dq deskew
5: MPR read delay center
6: Write leveling coarse
7: Write delay center
8: Read delay center
9: Max read latency
PMU Major Msg: Firmware run has completed
Info: Mail Box = 7
freq == 0xb4
bist pass: mode=0, space=33, pattern=0, result=1
EVB UCP4008: release8 init_lpdrr4 complete
DDR clock(PLL4): 666 MHz
ddr check ok
15.8 GiB
Relocation Offset is: f5ffa000
Relocating to ffefa000, new gd at ffcf95e8, sp at ffcf95d0
zyg_test: MMC: mmcscd@01a60000: 0zyg_test: mmc id: 0x0
Loading Environment from EEPROM... OK

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```
In: serial@04440000
Out: serial@04440000
Err: serial@04440000
Net: zyg_test: eth_initialize
zyg_test: phy_yutai_init
zyg_test: phy_fixed_init
zyg_test: mac addr: 0x01a40000
zyg_test: dev->name: ethernet@1a40000
zyg_test: eqos_probe: OK
eth0: ethernet@1a40000 zyg_test: mac addr: 0x01a50000
zyg_test: dev->name: ethernet@1a50000
zyg_test: eqos_probe: OK
```

```
Warning: ethernet@1a50000 (eth1) using random MAC address - 3a:66:3d:c7:3e:76
, eth1: ethernet@1a50000
ethernet@09090000: speed 10G
zyg_test1: Manufacturer ID: 0
```

- File not found 1588_pps_idtcm.bin **
ethernet@09090000: cli_simple_run_command return err: load_1588_file: 23
, eth-1: ethernet@09090000
Reset Ethernet PHY
Hit any key to stop autoboot: 0
14618632 bytes read in 3377 ms (4.1 MiB/s)
32832182 bytes read in 2170 ms (14.4 MiB/s)
28689 bytes read in 3 ms (9.1 MiB/s)
- kernel: cmdline image address = 0xb8000000
1. Loading init Ramdisk from Legacy Image at bc080000 ...
Image Name: ramdisk
Image Type: AArch64 Linux RAMDisk Image (gzip compressed)
Data Size: 32832118 Bytes = 31.3 MiB
Load Address: 10000000
Entry Point: 10000040
Verifying Checksum ... OK
2. Flattened Device Tree blob at cc080000
Booting using the fdt blob at 0xcc080000
Using Device Tree in place at 00000000cc080000, end 00000000cc08a010

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x000000000 [0x410fd083]
[ 0.000000] Linux version 5.10.165-v8 (root@zaj-virtual-machine) (aarch64-linux-gnu-gcc (Ubuntu/Linaro 7.5.0-3ubuntu1~18.04) 7.5.0, GNU ld (GNU Binutils for
Ubuntu) 2.30) #33 SMP Sun Apr 27 15:14:00 CST 2025
[ 0.000000] Machine model: smartlogic,ucp2
[ 0.000000] Reserved memory: created CMA memory pool at 0x00000000f0000000, size 192 MiB
[ 0.000000] OF: reserved mem: initialized node memory@0xb0000000, compatible id shared-dma-pool
[ 0.000000] Zone ranges:
[ 0.000000] DMA [mem 0x0000000010000000-0x00000000ffffffff]
[ 0.000000] DMA32 empty
[ 0.000000] Normal [mem 0x0000000010000000-0x000000003ffffffff]
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem 0x0000000010000000-0x00000000b7ffffff]
[ 0.000000] node 0: [mem 0x00000000b8000000-0x000000003ffffffff]
[ 0.000000] Initmem setup node 0 [mem 0x0000000010000000-0x000000003ffffffff]
[ 0.000000] percpu: Embedded 22 pages/cpu s49304 r8192 d32616 u90112
[ 0.000000] Detected PIPT I-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register CPU interface
[ 0.000000] CPU features: detected: EL2 vector hardening
[ 0.000000] CPU features: kernel page table isolation disabled by kernel configuration
[ 0.000000] CPU features: detected: Spectre-v2
[ 0.000000] CPU features: detected: Spectre-v4
[ 0.000000] CPU features: detected: ARM errata 1165522, 1319367, or 1530923
[ 0.000000] CPU features: detected: Spectre-BHB
[ 0.000000] CPU features: detected: ARM erratum 1742098
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 4064256
[ 0.000000] Kernel command line: console=ttyS0,115200n8 coherent_pool=32M root=/dev/ram0 hugepagesz=1G default_hugepagesz=1G hugepages=0
ramdisk_size=10000000
[ 0.000000] Dentry cache hash table entries: 2097152 (order: 12, 16777216 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 1048576 (order: 11, 8388608 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
[ 0.000000] software IO TLB: mapped [mem 0x00000000ec000000-0x00000000f0000000] (64MB)
[ 0.000000] Memory: 13165400K/16515072K available (8446K kernel code, 1092K rwddata, 2936K rodata, 1728K init, 586K bss, 3153064K reserved, 196608K
cma-reserved)
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[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=8, Nodes=1
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: RCU event tracing is enabled.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 100 jiffies.
[ 0.000000] NR_IRQS: 64, nr_irqs: 64, preallocated irq: 0
[ 0.000000] GICv3: 640 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: CPU0: found redistributor 0 region 0:0x0000000001900000
[ 0.000000] ITS: No ITS available, not enabling LPIs
[ 0.000000] rcu: Offload RCU callbacks from CPUs: (none).
[ 0.000000] SCRG reg base is fffffc010f00000
[ 0.000000] CCRG reg base is fffffc010f18000
[ 0.000000] arch_timer: cp15 timer(s) running at 50.00MHz (virt).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xfffffffffff max_cycles: 0xb8812736b, max_idle_ns: 440795202655 ns
[ 0.000001] sched_clock: 56 bits at 50MHz, resolution 20ns, wraps every 439804651100ns
[ 0.000113] Console: colour dummy device 80x25
[ 0.000132] Calibrating delay loop (skipped), value calculated using timer frequency.. 100.00 BogoMIPS (lpj=50000)
[ 0.000138] pid_max: default: 32768 minimum: 301
[ 0.000242] Mount-cache hash table entries: 32768 (order: 6, 262144 bytes, linear)
[ 0.000298] Mountpoint-cache hash table entries: 32768 (order: 6, 262144 bytes, linear)
[ 0.000988] rcu: Hierarchical SRCU implementation.
[ 0.001461] smp: Bringing up secondary CPUs ...
[ 0.001619] Detected PIPT I-cache on CPU1
[ 0.001624] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU1: 0x0000000000000000
[ 0.001635] CPU features: Unsupported CPU feature variation detected.
[ 0.001641] GICv3: CPU1: found redistributor 1 region 0:0x0000000001920000
[ 0.001658] CPU1: Booted secondary processor 0x0000000001 [0x410fd083]
[ 0.001836] Detected PIPT I-cache on CPU2
[ 0.001840] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU2: 0x0000000000000000
[ 0.001848] GICv3: CPU2: found redistributor 2 region 0:0x0000000001940000
[ 0.001858] CPU2: Booted secondary processor 0x0000000002 [0x410fd083]
[ 0.002044] Detected PIPT I-cache on CPU3
[ 0.002047] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU3: 0x0000000000000000
[ 0.002056] GICv3: CPU3: found redistributor 3 region 0:0x0000000001960000
[ 0.002066] CPU3: Booted secondary processor 0x0000000003 [0x410fd083]
[ 0.002232] Detected PIPT I-cache on CPU4
[ 0.002236] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU4: 0x0000000000000000
[ 0.002248] GICv3: CPU4: found redistributor 100 region 0:0x0000000001980000
[ 0.002261] CPU4: Booted secondary processor 0x00000000100 [0x410fd083]
[ 0.002441] Detected PIPT I-cache on CPU5
[ 0.002445] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU5: 0x0000000000000000
[ 0.002454] GICv3: CPU5: found redistributor 101 region 0:0x00000000019a0000
[ 0.002464] CPU5: Booted secondary processor 0x00000000101 [0x410fd083]
[ 0.002630] Detected PIPT I-cache on CPU6
[ 0.002634] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU6: 0x0000000000000000
[ 0.002643] GICv3: CPU6: found redistributor 102 region 0:0x00000000019c0000
[ 0.002653] CPU6: Booted secondary processor 0x00000000102 [0x410fd083]
[ 0.002816] Detected PIPT I-cache on CPU7
[ 0.002820] CPU features: SANITY CHECK: Unexpected variation in SYS_CNTFRQ_EL0. Boot CPU: 0x00000002faf080, CPU7: 0x0000000000000000
[ 0.002828] GICv3: CPU7: found redistributor 103 region 0:0x00000000019e0000
[ 0.002839] CPU7: Booted secondary processor 0x00000000103 [0x410fd083]
[ 0.002870] smp: Brought up 1 node, 8 CPUs
[ 0.002900] SMP: Total of 8 processors activated.
[ 0.002904] CPU features: detected: 32-bit EL0 Support
[ 0.002907] CPU features: detected: CRC32 instructions
[ 0.002941] CPU: All CPU started at EL1
[ 0.002956] alternatives: patching kernel code
[ 0.004472] devtmpfs: initialized
[ 0.006301] Registered cp15_barrier emulation handler
[ 0.006309] Registered setend emulation handler
[ 0.006314] KASLR disabled due to lack of seed
[ 0.006388] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns: 1911260446275000 ns
[ 0.006395] futex hash table entries: 2048 (order: 5, 131072 bytes, linear)
[ 0.007820] pinctrl core: initialized pinctrl subsystem
[ 0.007897]
[ 0.007901] *****
[ 0.007903] * NOTICE NOTICE NOTICE NOTICE NOTICE NOTICE
[ 0.007906] * *
[ 0.007908] * IOMMU DebugFS SUPPORT HAS BEEN ENABLED IN THIS KERNEL *
[ 0.007910] * *
[ 0.007913] * This means that this kernel is built to expose internal *
[ 0.007915] * IOMMU data structures, which may compromise security on *
[ 0.007918] * your system. *

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[ 0.007920] *
[ 0.007923] * If you see this message and you are not debugging the *
[ 0.007925] * kernel, report this immediately to your vendor! *
[ 0.007927] *
[ 0.007930] * NOTICE NOTICE NOTICE NOTICE NOTICE NOTICE *
[ 0.007932] *****
[ 0.008171] NET: Registered protocol family 16
[ 0.012308] DMA: preallocated 32768 KiB GFP_KERNEL pool for atomic allocations
[ 0.016156] DMA: preallocated 32768 KiB GFP_KERNEL|GFP_DMA pool for atomic allocations
[ 0.020008] DMA: preallocated 32768 KiB GFP_KERNEL|GFP_DMA32 pool for atomic allocations
[ 0.020269] cpuidle: using governor menu
[ 0.020325] hw-breakpoint: found 6 breakpoint and 4 watchpoint registers.
[ 0.020391] ASID allocator initialised with 65536 entries
[ 0.027632] HugeTLB registered 1.00 GiB page size, pre-allocated 0 pages
[ 0.027637] HugeTLB registered 32.0 MiB page size, pre-allocated 0 pages
[ 0.027641] HugeTLB registered 2.00 MiB page size, pre-allocated 0 pages
[ 0.027644] HugeTLB registered 64.0 KiB page size, pre-allocated 0 pages
[ 0.028843] iommu: Default domain type: Translated
[ 0.028888] arm-v7s io-pgtable: self test ok
[ 0.028892] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 32
[ 0.028925] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 36
[ 0.028947] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 40
[ 0.028978] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 42
[ 0.029022] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 44
[ 0.029048] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x40201000, IAS 48
[ 0.029074] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 32
[ 0.029102] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 36
[ 0.029143] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 40
[ 0.029184] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 42
[ 0.029224] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 44
[ 0.029264] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x02004000, IAS 48
[ 0.029328] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 32
[ 0.029419] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 36
[ 0.029503] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 40
[ 0.029597] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 42
[ 0.029752] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 44
[ 0.029883] arm-lpae io-pgtable: selftest: pgsz_bitmap 0x20010000, IAS 48
[ 0.030015] arm-lpae io-pgtable: selftest: completed with 18 PASS 0 FAIL
[ 0.030076] vgaarb: loaded
[ 0.030175] SCSI subsystem initialized
[ 0.030237] usbcore: registered new interface driver usbfs
[ 0.030251] usbcore: registered new interface driver hub
[ 0.030266] usbcore: registered new device driver usb
[ 0.030435] jsc204: found 0 devices and 0 topologies
[ 0.030441] pps_core: LinuxPPS API ver. 1 registered
[ 0.030444] pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>
[ 0.030452] PTP clock support registered
[ 0.030765] clocksource: Switched to clocksource arch_sys_counter
[ 0.030854] FS-Cache: Loaded
[ 0.030970] CacheFiles: Loaded
[ 0.032910] NET: Registered protocol family 2
[ 0.033409] IP idents hash table entries: 262144 (order: 9, 2097152 bytes, linear)
[ 0.036855] tcp_listen_portaddr_hash hash table entries: 8192 (order: 5, 131072 bytes, linear)
[ 0.036889] TCP established hash table entries: 131072 (order: 8, 1048576 bytes, linear)
[ 0.037188] TCP bind hash table entries: 65536 (order: 8, 1048576 bytes, linear)
[ 0.037504] TCP: Hash tables configured (established 131072 bind 65536)
[ 0.037582] UDP hash table entries: 8192 (order: 6, 262144 bytes, linear)
[ 0.037634] UDP-Lite hash table entries: 8192 (order: 6, 262144 bytes, linear)
[ 0.037743] NET: Registered protocol family 1
[ 0.037755] PCI: CLS 0 bytes, default 64
[ 0.037850] Trying to unpack rootfs image as initramfs...
[ 0.037993] rootfs image is not initramfs (no cpio magic); looks like an initrd
[ 0.062966] Freeing initrd memory: 32056K
[ 0.063538] Initialise system trusted keyrings
[ 0.063612] workingset: timestamp_bits=62 max_order=22 bucket_order=0
[ 0.065441] fuse: init (API version 7.32)
[ 0.065520] 9p: Installing v9fs 9p2000 file system support
[ 0.065545] FS-Cache: Netfs '9p' registered for caching
[ 0.086886] Key type asymmetric registered
[ 0.086890] Asymmetric key parser 'x509' registered
[ 0.086907] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 248)
[ 0.086911] io scheduler mq-deadline registered
[ 0.086914] io scheduler kyber registered
[ 0.087183] pinctrl-ucp2 pinctrl@04458000: ucp2 pintr probe ok!
[ 0.087259] gpio-dwapb 4450000.gpio: no IRQ for port0

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[ 0.087807] gpio-dwapb 4d10000.gpio: no IRQ for port0
[ 0.088508] dw_axi_dmac_platform 4540000.dma-controller: DesignWare AXI DMA Controller, 8 channels
[ 0.088549] dw_axi_dmac_platform: probe of 4d38000.dma-controller failed with error 2
[ 0.088660] Serial: 8250/16550 driver, 32 ports, IRQ sharing enabled
[ 0.090261] printk: console [ttyS0] disabled
[ 0.090287] 4440000.serial: ttyS0 at MMIO 0x4440000 (irq = 13, base_baud = 3125000) is a 16550A
[ 1.265950] printk: console [ttyS0] enabled
[ 1.270385] 4448000.serial: ttyS1 at MMIO 0x4448000 (irq = 14, base_baud = 3125000) is a 16550A
[ 1.279282] 4d00000.serial: ttyS2 at MMIO 0x4d00000 (irq = 15, base_baud = 3125000) is a 16550A
[ 1.288389] arm-smmu 42b8000.iommu: probing hardware configuration...
[ 1.294804] arm-smmu 42b8000.iommu: SMMUv2 with:
[ 1.299398] arm-smmu 42b8000.iommu: stage 1 translation
[ 1.304683] arm-smmu 42b8000.iommu: stage 2 translation
[ 1.309968] arm-smmu 42b8000.iommu: nested translation
[ 1.315168] arm-smmu 42b8000.iommu: non-coherent table walk
[ 1.320800] arm-smmu 42b8000.iommu: (IDR0.CTTW overridden by FW configuration)
[ 1.328074] arm-smmu 42b8000.iommu: stream matching with 32 register groups
[ 1.335090] arm-smmu 42b8000.iommu: 32 context banks (0 stage-2 only)
[ 1.341586] arm-smmu 42b8000.iommu: Supported page sizes: 0x61311000
[ 1.347995] arm-smmu 42b8000.iommu: Stage 1: 48-bit VA -> 48-bit IPA
[ 1.354403] arm-smmu 42b8000.iommu: Stage 2: 48-bit IPA -> 48-bit PA
[ 1.361937] brd: module loaded
[ 1.366673] loop: module loaded
[ 1.370196] pinctrl-ucp2 pinctrl@04458000: pin PA6 already requested by 4448000.serial; cannot claim for 4438000.spi
[ 1.380672] pinctrl-ucp2 pinctrl@04458000: pin 6 (4438000.spi) status -22
[ 1.387429] pinctrl-ucp2 pinctrl@04458000: could not request pin 6 (PA6) from group PA6 on device pinctrl-ucp2
[ 1.397466] dw_spi_mmio 4438000.spi: Error applying setting, reverse things back
[ 1.404842] dw_spi_mmio: probe of 4438000.spi failed with error -22
[ 1.411195] phc@0 enforce active low on chipselect handle
[ 1.417098] zyg_test: phy_id:0xffffffff
[ 1.420919] zyg_test: phy_id:0xffffffff
[ 1.424735] zyg_test: phy_id:0xffffffff
[ 1.428551] zyg_test: phy_id:0xffffffff
[ 1.432367] zyg_test: phy_id:0xffffffff
[ 1.436183] zyg_test: phy_id:0xffffffff
[ 1.439999] zyg_test: phy_id:0xffffffff
[ 1.443816] zyg_test: phy_id:0xffffffff
[ 1.447631] zyg_test: phy_id:0xffffffff
[ 1.451447] zyg_test: phy_id:0xffffffff
[ 1.455263] zyg_test: phy_id:0xffffffff
[ 1.459079] zyg_test: phy_id:0xffffffff
[ 1.462897] zyg_test: phy_id:0xffffffff
[ 1.466714] zyg_test: phy_id:0xffffffff
[ 1.470529] zyg_test: phy_id:0xffffffff
[ 1.474346] zyg_test: phy_id:0xffffffff
[ 1.478162] zyg_test: phy_id:0xffffffff
[ 1.481978] zyg_test: phy_id:0xffffffff
[ 1.485794] zyg_test: phy_id:0xffffffff
[ 1.489609] zyg_test: phy_id:0xffffffff
[ 1.493425] zyg_test: phy_id:0xffffffff
[ 1.497241] zyg_test: phy_id:0xffffffff
[ 1.501057] zyg_test: phy_id:0xffffffff
[ 1.504873] zyg_test: phy_id:0xffffffff
[ 1.508689] zyg_test: phy_id:0xffffffff
[ 1.512505] zyg_test: phy_id:0xffffffff
[ 1.516321] zyg_test: phy_id:0xffffffff
[ 1.520137] zyg_test: phy_id:0xffffffff
[ 1.523953] zyg_test: phy_id:0xffffffff
[ 1.527770] zyg_test: phy_id:0xffffffff
[ 1.531585] zyg_test: phy_id:0xffffffff
[ 1.535401] zyg_test: phy_id:0xffffffff
[ 1.539267] tun: Universal TUN/TAP device driver, 1.6
[ 1.544600] VFIO - User Level meta-driver version: 0.3
[ 1.550078] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 1.556579] ehci-pci: EHCI PCI platform driver
[ 1.561010] ehci-platform: EHCI generic platform driver
[ 1.566252] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver
[ 1.572404] ohci-pci: OHCI PCI platform driver
[ 1.576836] ohci-platform: OHCI generic platform driver
[ 1.582076] uhci_hcd: USB Universal Host Controller Interface driver
[ 1.588439] usbcore: registered new interface driver usb-storage
[ 1.594425] i2c-dev entries driver
[ 1.597966] uvp4008-pvt 4708000.pvt: ucp4008 pvt probe enter
[ 1.603618] uvp4008-pvt 4708000.pvt: ucp4008 pvt interrupt number is 21
[ 1.610235] uvp4008-pvt 4708000.pvt: init ucp4008 pvt success

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[ -1.615988] uvp4008-pvt 4708000.pvt: ucp4008 pvt probe leave
[ -1.621738] dw_wdt 4400000.watchdog: No valid TOPs array specified
[ -1.628000] dw_wdt 4408000.watchdog: No valid TOPs array specified
[ -1.634541] sdhci: Secure Digital Host Controller Interface driver
[ -1.640694] sdhci: Copyright(c) Pierre Ossman
[ -1.645030] Synopsys Designware Multimedia Card Interface Driver
[ -1.651083] sdhci-pltfm: SDHCI platform and OF driver helper
[ -1.651167] dw_mmc_smartlogic 1a60000.mmc:sd: sdvol-gpios parsed OK
[ -1.656862] hid: raw HID events driver (C) Jiri Kosina
[ -1.662982] dw_mmc_smartlogic 1a60000.mmc:sd: sdmmc tuning clock 500000000Hz
[ -1.668099] usbcore: registered new interface driver usbhid
[ -1.675094] dw_mmc_smartlogic 1a60000.mmc:sd: sdmmc bus clock 125000000Hz
[ -1.680622] usbhid: USB HID core driver
[ -1.680766] Initializing XFRM netlink socket
[ -1.687346] dw_mmc_smartlogic 1a60000.mmc:sd: IDMAC supports 32-bit address mode.
[ -1.691112] NET: Registered protocol family 17
[ -1.695367] dw_mmc_smartlogic 1a60000.mmc:sd: Using internal DMA controller.
[ -1.702736] sctp: Hash tables configured (bind 256/256)
[ -1.707132] dw_mmc_smartlogic 1a60000.mmc:sd: Version ID is 250a
[ -1.714148] 9pnet: Installing 9P2000 support
[ -1.719268] dw_mmc_smartlogic 1a60000.mmc:sd: DW MMC controller at irq 38,32 bit host data width,512 deep fifo
[ -1.725248] Loading compiled-in X.509 certificates
[ -1.729439] mmc_host mmc0: card is non-removable.
[ -1.743350] at24 0-0056: 131072 byte 24c1024 EEPROM, writable, 1 bytes/write
[ -1.744076] dw_mmc_smartlogic 1a60000.mmc:sd: emmc not support switch to 3v
[ -1.749133] pca954x 1-0070: probe failed
[ -1.755730] dw_mmc_smartlogic 1a60000.mmc:sd: sdmmc card switch to 1.8v
[ -1.773137] printk: console [netcon0] enabled
[ -1.777475] netconsole: network logging started
[ -1.782173] dw-apb-uart 4440000.serial: forbid DMA for kernel console
[ -1.785639] mmc_host mmc0: Bus speed (slot 0) = 125000000Hz (slot req 400000Hz, actual 398089HZ div = 157)
[ -1.810844] RAMDISK: gzip image found at block 0
[ -1.882090] dw_mmc_smartlogic 1a60000.mmc:sd: sdmmc card switch to 1.8v
[ -1.892677] mmc_host mmc0: Bus speed (slot 0) = 125000000Hz (slot req 52000000Hz, actual 31250000HZ div = 2)
[ -1.902471] mmc_host mmc0: Bus speed (slot 0) = 125000000Hz (slot req 70000000Hz, actual 62500000HZ div = 1)
[ -1.912753] dw_mmc_smartlogic 1a60000.mmc:sd: config sdmmc tuning rxdly 8
[ -1.919596] mmc0: new HS200 MMC card at address 0001
[ -1.924805] mmcblk0: mmc0:0001 MK128D 116 GiB
[ -1.929372] mmcblk0boot0: mmc0:0001 MK128D partition 1 4.00 MiB
[ -1.935410] mmcblk0boot1: mmc0:0001 MK128D partition 2 4.00 MiB
[ -1.941361] mmcblk0rpmb: mmc0:0001 MK128D partition 3 4.00 MiB, chardev (245:0)
[ -1.949487] mmcblk0: p1 p2 p3
[ -2.725525] attempt to access beyond end of device
[ -2.725525] ram0: rw=2049, want=1152921504606865432, limit=20000000
[ -2.736524] Buffer I/O error on dev ram0, logical block 144115188075858178, lost async page write
[ -2.775503] attempt to access beyond end of device
[ -2.775503] ram0: rw=2049, want=1152921504606927600, limit=20000000
[ -2.786504] Buffer I/O error on dev ram0, logical block 144115188075865949, lost async page write
[ -2.799549] attempt to access beyond end of device
[ -2.799549] ram0: rw=2049, want=1152921504606936400, limit=20000000
[ -2.810546] Buffer I/O error on dev ram0, logical block 144115188075867049, lost async page write
[ -2.836243] Unable to handle kernel NULL pointer dereference at virtual address 0000000000000020
[ -2.844992] Mem abort info:
[ -2.847770] ESR = 0x96000005
[ -2.850808] EC = 0x25: DABT (current EL), IL = 32-bits
[ -2.856093] SET = 0, FnV = 0
[ -2.859130] EA = 0, S1PTW = 0
[ -2.862253] Data abort info:
[ -2.865118] ISV = 0, ISS = 0x00000005
[ -2.868934] CM = 0, WnR = 0
[ -2.871885] [0000000000000020] user address but active_mm is swapper
[ -2.878207] Internal error: Oops: 96000005 [#1] SMP
[ -2.883058] Modules linked in:
[ -2.886097] CPU: 2 PID: 1 Comm: swapper/0 Tainted: G S ——— 5.10.165-v8 #33
[ -2.893886] Hardware name: smartlogic,ucp2 (DT)
[ -2.898392] pstate: 20000005 (nzCv daif PAN UAO TCO BTYPE=)
[ 2.904375] pc : brd_insert_page.part.13+0xd0/0x100
[ 2.909226] lr : brd_insert_page.part.13+0xc8/0x100
[ 2.914076] sp : fffffc010edb4c0
[ 2.917371] x29: fffffc010edb4c0 x28: 0000000000000000
[ 2.922656] x27: 000000000001e600 x26: 0000000000000000
[ 2.927941] x25: fffff8100479680 x24: 0000000000000000
[ 2.933225] x23: fffff8104044d40 x22: fffff81004796b0
[ 2.938509] x21: 0000000000003cc0 x20: 0200000000000000
[ 2.943794] x19: fffff8100479680 x18: 0000000000000000

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[ 2.949077] x17: 00000000000000c0 x16: fffffff043cc2c0
[ 2.954361] x15: 0000000000000001 x14: 0000000000000002
[ 2.959646] x13: 00000000002d8860 x12: 0000000000000010
[ 2.964930] x11: 0000000000000040 x10: fffff81004796b8
[ 2.970214] x9 : fffff81004796b0 x8 : fffff8102b226f0
[ 2.975499] x7 : 0000000000000000 x6 : 0000000000000000
[ 2.980783] x5 : fffff8102b226c8 x4 : fffff8102b226f0
[ 2.986066] x3 : 0000000000000000 x2 : 0000000000000000
[ 2.991349] x1 : 0000000000003cc0 x0 : 0200000000000000
[ 2.996635] Call trace:
[ 2.999067] brd_insert_page.part.13+0xd0/0x100
[ 3.003572] brd_do_bvec+0x274/0x298
[ 3.007127] brd_submit_bio+0xb8/0x1c0
[ 3.010855] submit_bio_noacct+0x10c/0x3f0
[ 3.014929] submit_bio+0x44/0x1a8
[ 3.018313] submit_bh_wbc.isra.58+0x15c/0x1b8
[ 3.022733] __block_write_full_page+0x1f4/0x520
[ 3.027324] block_write_full_page+0x78/0x110
[ 3.031658] blkdev_writepage+0x18/0x20
[ 3.035473] __writepage+0x1c/0x98
[ 3.038856] write_cache_pages+0x290/0x3c8
[ 3.042929] generic_writepages+0x5c/0x98
[ 3.046916] blkdev_writepages+0xc/0x18
[ 3.050731] do_writepages+0x54/0x100
[ 3.054373] __filemap_fdatawrite_range+0xa8/0xc0
[ 3.059051] filemap_write_and_wait_range+0x30/0xa0
[ 3.063902] __sync_blockdev+0x24/0x40
[ 3.067631] set_blocksize+0x7c/0xd8
[ 3.071186] sb_set_blocksize+0x1c/0x68
[ 3.075000] sb_min_blocksize+0x34/0x58
[ 3.078815] ext4_fill_super+0x154/0x2cc8
[ 3.082803] mount_bdev+0x1a4/0x1e0
[ 3.086272] ext4_mount+0x14/0x20
[ 3.089568] legacy_get_tree+0x2c/0x58
[ 3.093294] vfs_get_tree+0x28/0xc0
[ 3.096763] path_mount+0x65c/0xa48
[ 3.100233] init_mount+0x6c/0xb0
[ 3.103529] mount_block_root+0x1bc/0x348
[ 3.107515] mount_root+0x74/0x84
[ 3.110810] prepare_namespace+0x138/0x178
[ 3.114882] kernel_init_freeable+0x288/0x2b4
[ 3.119216] kernel_init+0x10/0x110
[ 3.122685] ret_from_fork+0x10/0x1c
[ 3.126242] Code: aa1603e0 97fbaff9 aa0003f4 b4000080 (f9401000)
[ 3.132307] ---[ end trace c8d5fefcd427fa8a ]---
[ 3.136907] Kernel panic - not syncing: Attempted to kill init! exitcode=0x0000000b
[ 3.144524] SMP: stopping secondary CPUs
[ 3.148426] Kernel Offset: disabled
[ 3.151895] CPU features: 0x28040022,61006008
[ 3.156227] Memory Limit: none
[ 3.159266] ---[ end Kernel panic - not syncing: Attempted to kill init! exitcode=0x0000000b ]---
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#4 - 2025-07-08 11:39 - 战 弋 戈

跟王文华讨论过，应该跟以前的一块板卡同一现象。烤下内存试试。

#5 - 2025-07-08 17:48 - 战 弋 戈

- 指派给从 战 弋 戈 变更为 申 江 欣

文件

2666.png	41.5 KB	2025-07-07	战 弋 戈
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