

基站横联 - 错误 #3894

HL 板卡跑一段时间，ssh失联，串口可以登陆，定位为操作系统崩溃

2025-08-11 20:30 - 高峰

状态:	已关闭	开始日期:	2025-08-11
优先级:	高	计划完成日期:	
指派给:	战 弋戈	% 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			

历史记录

#1 - 2025-08-12 10:09 - 战 弋戈

[776.309441] Unable to handle kernel paging request at virtual address fffffffc3ef403008
[776.317327] Mem abort info:
[776.320111] ESR = 0x96000005
[776.320117] Unable to handle kernel paging request at virtual address fffffffc3ef3d7008
[776.323151] EC = 0x25: DABT (current EL), IL = 32 bits
[776.323152] SET = 0, FnV = 0
[776.323154] EA = 0, S1PTW = 0
[776.323156] Data abort info:
[776.331034] Mem abort info:
[776.336318] ISV = 0, ISS = 0x00000005
[776.339353] ESR = 0x96000005
[776.339356] EC = 0x25: DABT (current EL), IL = 32 bits
[776.342479] CM = 0, WnR = 0
[776.345342] SET = 0, FnV = 0
[776.348121] swapper pgtable: 4k pages, 39-bit VAs, pgdp=00000000b8b22000
[776.351935] EA = 0, S1PTW = 0
[776.354970] [ffffffc3ef403008] pgd=0000000000000000, p4d=0000000000000000
[776.360255] Data abort info:
[776.363204] , pud=0000000000000000
[776.366242] ISV = 0, ISS = 0x00000005
[776.366244] CM = 0, WnR = 0
[776.372911] Internal error: Oops: 96000005 [#1] SMP
[776.376034] swapper pgtable: 4k pages, 39-bit VAs, pgdp=00000000b8b22000
[776.382781] Modules linked in: dwmac_dwc_qos_eth
[776.385647] [ffffffc3ef3d7008] pgd=0000000000000000
[776.389025] tsc(O) stc(O) ioreg(O)
[776.392842] , p4d=0000000000000000
[776.395787] mem_export(O) mem_dump(O) ucp4008cache
[776.400640] , pud=0000000000000000
[776.407300] spin_driver(O) loadelf(O)
[776.407307] CPU: 7 PID: 422 Comm: l2app Tainted: G S O 5.10.165-v8 #37
[776.411895]
[776.416741] Hardware name: smartlogic,ucp2 (DT)
[776.416744] pstate: a0000005 (NzCv daif PAN-UAO-TCO-BTYPE=)
[776.416755] pc : kmem_cache_alloc+0x60/0x1e8
[776.459357] lr : kmem_cache_alloc+0x44/0x1e8
[776.463602] sp : fffffffc018363990
[776.466896] x29: fffffffc018363990 x28: ffffff8106850000
[776.472181] x27: 0000000000000002 x26: 0000000000000000
[776.477466] x25: 0000000080000000 x24: 00000000ffffffff
[776.482750] x23: 0000000000000001 x22: ffffff8100508000
[776.488035] x21: 00000000000000a20 x20: fffffffc0106fe7d4
[776.493319] x19: ffffff8100002300 x18: 0000000000000001
[776.498603] x17: 0000000000000000 x16: 0000000000000000
[776.503887] x15: 0000000000000068 x14: fffffffc010905000
[776.509170] x13: fffffffc018363c00 x12: 0000000000000000
[776.514454] x11: fffffffc018363ac8 x10: fffffffc018363c00
[776.519738] x9 : ffffff8106a52800 x8 : 00000000c0a8ff6f
[776.525022] x7 : 0000000000000001 x6 : 0000000000000000
[776.530306] x5 : ffffff8106a52aa0 x4 : 0000000000000006
[776.535591] x3 : 00000000ffffffff x2 : fffffffc018363990
[776.540875] x1 : fffffffc3ef403000 x0 : 0000000000000008
[776.546159] Call trace:

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[ 776.548592] kmem_cache_alloc+0x60/0x1e8
[ 776.552493] dst_alloc+0x5c/0xd8
[ 776.555703] rt_dst_alloc+0x50/0xc0
[ 776.559174] ip_route_output_key_hash_rcu+0x310/0x710
[ 776.564199] ip_route_output_key_hash+0x5c/0x88
[ 776.568704] ip_route_output_flow+0x24/0x68
[ 776.572865] udp_sendmsg+0x5b0/0x8d8
[ 776.576421] inet_sendmsg+0x40/0x68
[ 776.579890] __sys_sendto+0x110/0x168
[ 776.583531] __arm64_sys_sendto+0x24/0x30
[ 776.587519] el0_svc_common.constprop.4+0x64/0x180
[ 776.592284] do_el0_svc+0x18/0x20
[ 776.595582] el0_svc+0x1c/0x28
[ 776.598618] el0_sync_handler+0x88/0xb0
[ 776.602433] el0_sync+0x148/0x180
[ 776.605730] Code: f9400260 910003e2 d538d081 91002000 (f8616801)
[ 776.611791] ---[ end trace 0e1222054685557b ]---
[ 776.616384] Internal error: Oops: 96000005 [#2] SMP
[ 776.616434] Unable to handle kernel paging request at virtual address fffffffc3ef403008
[ 776.621234] Modules linked in: dwmac_dwc_qos_eth tsc(O) stc(O) ioreg(O) mem_export(O) mem_dump(O) ucp4008cache
[ 776.629117] Mem abort info:
[ 776.629119]   ESR = 0x96000005
[ 776.639065] spin_driver(O) loadelf(O)
[ 776.639070] CPU: 5 PID: 127 Comm: klogd Tainted: G S   D   O   5.10.165-v8 #37
[ 776.641847]   EC = 0x25: DABT (current EL), IL = 32 bits
[ 776.644878] Hardware name: smartlogic,ucp2 (DT)
[ 776.644880] pstate: a0000005 (NzCv daif PAN-UAO-TCO-BTYPE=)
[ 776.644886] pc : kmem_cache_alloc+0x60/0x1e8
[ 776.648609]   SET = 0, FnV = 0
[ 776.656222] lr : kmem_cache_alloc+0x44/0x1e8
[ 776.656224] sp : fffffffc018383bd0
[ 776.661506]   EA = 0, S1PTW = 0
[ 776.666008] x29: fffffffc018383bd0 x28: fffffff8100704b00
[ 776.671984] Data abort info:
[ 776.676226] x27: 0000000000000000 x26: 0000000000000000
[ 776.679265]   ISV = 0, ISS = 0x00000005
[ 776.683506] x25: fffffffc010cfa3a0 x24: 0000000000000000
[ 776.686805]   CM = 0, WnR = 0
[ 776.689923] x23: 0000000080000000 x22: fffffffc010df92f8
[ 776.689926] x21: 00000000000000cc0 x20: fffffffc010080230
[ 776.689930] x19: fffffff8100003b00
[ 776.695213] swapper pgtable: 4k pages, 39-bit VAs, pgdp=00000000b8b22000
[ 776.698071] x18: 0000000000000000
[ 776.698073] x17: 0000000000000000 x16: 0000000000000000
[ 776.703358] [ffffffc3ef403008] pgd=0000000000000000
[ 776.707166]
[ 776.707167] x15: 0000000000000001 x14: 0000000000000200
[ 776.712451] , p4d=0000000000000000
[ 776.715396]
[ 776.715397] x13: fffffffc018383cb0 x12: 0000000000000000
[ 776.720682] , pud=0000000000000000
[ 776.725960]
[ 776.725962] x11: fffffffc010d554a8 x10: fffffffc010d054a8
[ 776.729345]
[ 776.736005]
[ 776.736006] x9 : fffffffc010d524a8 x8 : 0000000000003000
[ 776.736009] x7 : 80000000fffff200 x6 : ffffffffe80e0
[ 776.736013] x5 : 000000000000b000 x4 : 0000000000000000
[ 776.795354] x3 : fffffffc010ace000 x2 : fffffffc018383bd0
[ 776.800639] x1 : fffffffc3ef3d7000 x0 : 0000000000000008
[ 776.805923] Call trace:
[ 776.808356] kmem_cache_alloc+0x60/0x1e8
[ 776.812259] syslog_print+0x40/0x2e8
[ 776.815813] do_syslog.part.36+0x3f4/0x5b0
[ 776.819887] do_syslog+0x40/0x50
[ 776.823096] __arm64_sys_syslog+0x20/0x30
[ 776.827084] el0_svc_common.constprop.4+0x64/0x180
[ 776.831848] do_el0_svc+0x18/0x20
[ 776.835145] el0_svc+0x1c/0x28
[ 776.838181] el0_sync_handler+0x88/0xb0
[ 776.841995] el0_sync+0x148/0x180
[ 776.845293] Code: f9400260 910003e2 d538d081 91002000 (f8616801)
[ 776.851354] ---[ end trace 0e1222054685557c ]---

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#2 - 2025-08-14 09:41 - 战 弋戈

多次出现崩溃时的日志对虚拟地址转换成物理地址进行打印，会发现超出了实际物理内存大小。

#3 - 2025-08-20 17:24 - 高峰

问题定位，原因见 [#3926](#) 问题单

#4 - 2025-08-20 17:47 - 战 弋戈

根据#3926的描述，cp端会发送数据存储到随机地址上，造成的问题。

#5 - 2025-08-20 17:47 - 战 弋戈

- 状态从 *新建* 变更为 *已解决*

#6 - 2025-08-21 20:45 - 高峰

- 状态从 *已解决* 变更为 *已关闭*