

知 某局点S12510-F交换机下挂业务组播流阻断及ACL视图无法进入问题

组播VPN 赵广旭 2022-06-17 发表

问题描述

现网组网如下：Bas – S125 – OLT – 终端

设备下挂终端反馈组播业务阻断，125和bas上核对设备配置均正确，bas上查看组播流量正常向125转发，因此在125上进行流统定位丢包位置；但在125进行流统时，发现新建acl后，命令行卡顿无反应，反复尝试后均卡顿无法进入acl视图，此时查看设备CPU和内存等信息处于正常范围内；收集设备诊断信息时，当诊断信息回显至display interface下挂终端全部收不到组播流量，看设备上组播没有表象，acl资源也是充足的cpu和内存也正常。

过程分析

排查发现94进程一直居高不下，而与之关联的进程338，发现有大量的驱动ipmc组播栈调用动作，导致ACI挂死，进一步排查发现，chassis 2 slot 6有异常parity error报错，且未修复，导致LEM表项发生异常，而组播报文新增表项会下发到LEM表中，进而导致组播报文转发异常，针对parity error报错未自动修复的问题，家里需要搭建环境复现，建议客户侧重启chassis 2 slot 6来修复这个parity error报错。

```
[TZ-TT-DSW-1.MAN.H3C12510F-probe]monitor thread ch 2 s 6
201 processes; 219 threads
```

```
Thread states: 5 running, 214 sleeping, 0 stopped, 0 zombie
CPU states: 67.75% idle, 0.70% user, 29.07% kernel, 2.48% interrupt
Memory: 4012M total, 1839M available, page size 16K
```

JID	TID	LAST_CPU	PRI	State	HH:MM:SS	MAX	CPU	Name
94	94	3 123	R	88:28:04	129	23.91%		[bcmDPC]
1	1	3 120	S	00:02:52	14	2.22%		scmd
158	158	3 123	R	587h	1	1.29%		[bLK0]
159	159	2 123	D	578h	24	1.29%		[bLK1]
211	213	2 120	S	03:07:15	1	0.73%		ifmgr
1971270214	2	120	R	00:00:00	1	0.55%		diagd
152	152	2 100	D	87:21:06	1	0.36%		[bRX3]
188	188	0 139	S	117h	0	0.36%		[dbfd_2]
189	189	1 120	S	156h	0	0.36%		[dbfd_rcv]
109	109	2 105	S	32:51:18	1	0.18%		[dport_omcd]

```
[TZ-TT-DSW-1.MAN.H3C12510F-probe]bcm ch 2 s 6 c 0 mutex
Err=0 MutexUsed=3484 mutex_block_num=4 task_block_num=1
```

```
*****
BlkPID BlkPName BlkPri OwnPID OwnPName OwnPri MutexCnt MutexName
71 NULL 0 113 bTM_v_get123 2 BCM Petra Field unit lock
91 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
100 NULL 0 113 bTM_v_get123 2 dpp cache interlock
113 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
116 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
123 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
147 NULL 0 113 bTM_v_get123 2 BCM Petra Field unit lock
338 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
347 NULL 0 352 karp/1 115 2 _dpp_l3_unit_lock
352 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
891 NULL 0 94 bcmDPC 123 2 soc_sand_os_mutex_create
```

```
[TZ-TT-DSW-1.MAN.H3C12510F-probe]follow process 338 c 2 s 6
Attaching to process 338 (mcsd)
Iteration 1 of 5
```

```
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Thread (LWP 338):
```

```
Switch counts: 267524872
```

```
User stack:
```

```
User stack deliberately skipped. Reason: Thread state=D.
```

```
Kernel stack:
```

```
[<ffffff804ad9f0>] schedule+0x710/0x1050
[<ffffffc3e92ba0>] mutex_lock_replacer+0x120/0x1e0 [system]
[<ffffffc3e93234>] drv_sal_mutex_take+0x5d4/0x7f0 [system]
[<ffffffc4e7ea34>] soc_sand_os_mutex_take+0x24/0x40 [system]
[<ffffffc4eaf4b0>] soc_sand_take_chip_descriptor_mutex+0x190/0x270 [system]
[<ffffffc4ef2dc4>] soc_ppd_frwr_ipv4_mc_route_get+0x214/0x380 [system]
[<ffffffc6308ac4>] _bcm_ppd_frwr_ipv4_mc_route_find+0x244/0x440 [system]
[<ffffffc6309130>] bcm_petra_ipmc_find+0x470/0x4d0 [system]
[<ffffffc63097e8>] _bcm_ppd_frwr_ipv4_mc_route_remove+0x208/0x470 [system]
[<ffffffc630b0e0>] bcm_petra_ipmc_remove+0x4a0/0x500 [system]
```

```
<ffffffffff31303dc> drv_ipmc_bcm_del_l3entry+0x1dc/0x400 [system]
<ffffffffff313abe0> drv_ipmc_del_l2_group+0x150/0x4c0 [system]
<ffffffffff3a91584> drv_ipv4mc_del_l2_group+0xc4/0x170 [system]
<ffffffffff3126a70> DRV_IPV4MC_HandleMRouteChange+0xd20/0xe00 [system]
<ffffffffff3126a70> M3DRV4_L2EntryToDrv+0x4c/0x80 [system]
<ffffffffff78b2924> M3DRV4_IOCTL_IPMsgToDrv+0x234/0x6d0 [system]
<ffffffffff78d07e0> L2MIOCTL_ProcIPMsgToDrv+0xa0/0x1c0 [system]
<ffffffffff78d18cc> MFIB_L2MIOCTL_CallBack+0x2bc/0x9d0 [system]
<ffffffffff76d3d9c> CIOCTL_DoIt+0xfc/0x2b0 [system]
<ffffffffff80202f44> stack_done_ra+0x0/0x1c
```

[TZ-TT-DSW-1.MAN.H3C12510F-probe]dis parity-error c 2 s 6
Jun 09 2022 17:48:53:430147:unit 1:name=IHP_ParityErrInt, id=468, index=0, block=0, unit=1, recurring_action=0 | nof_occurrences=0001, cnt_overflow=0x0, memory address=0x005a84d6 memory=IHP_MEM_590000, mem_id=3943, array element=3, index=1238 | EM Soft Recovery
Error count 1. First logged at Jun 09 2022 17:48:53:430147.

[TZ-TT-DSW-1.MAN.H3C12510F-probe]view /proc/94/stack ch 2 s 6
<ffffffffff804ad9f0> schedule+0x710/0x1050
<ffffffffff3e92ba0> mutex_lock_replacer+0x120/0x1e0 [system]
<ffffffffff3e93234> drv_sal_mutex_take+0x5d4/0x7f0 [system]
<ffffffffff3e98774> sal_config_get+0x114/0x170 [system]
<ffffffffff3e53d24> soc_property_get_str+0x214/0x520 [system]
<ffffffffff3e58f3c> soc_property_get+0x1c/0x50 [system]
<ffffffffff45d6fe0> arad_pp_frwr_d_mact_is_dma_supported+0xa0/0x170 [system]
<ffffffffff45862e0> arad_pp_lem_access_parse_only+0xd0/0x12a0 [system]
<ffffffffff45876f0> arad_pp_lem_access_parse+0x240/0x300 [system]
<ffffffffff3d2b018> _arad_pp_frwr_lem_get_block_unsafe+0xa68/0x17b0
[ksplce_lpu_xlp_1617106360_system_new]
<ffffffffff3d2bff8> _arad_pp_frwr_d_mact_get_block_unsafe+0x298/0x470 [ksplce_lpu_xlp_1617106360_system_new]
<ffffffffff3d2c2e4> arad_pp_frwr_d_mact_get_block_unsafe+0x114/0x210 [ksplce_lpu_xlp_1617106360_system_new]
<ffffffffff3ca259c> soc_ppd_frwr_d_mact_get_block+0x39c/0x400 [ksplce_lpu_xlp_1617106360_system_new]
<ffffffffff3d30684> h3c_arad_pp_

