

生成4 (gen4)线路卡缓慢流失计数器和命令排除故障(MD 9500系列多层控制器)

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简介

本文描述命令并且反对在Cisco MDS 9500 Series Multilayer Directors生成4 (gen4)线路卡的增量有雷鸟ASIC，型号DS-X9232-256K9和DS-X9248-256K9的，当设备正常运行，当一个缓慢的流失设备时。如果了解哪些计数器增加，并且他们增加的地方，您能适当地识别和解决这些问题类型。

终端设备之间的所有数据流在存储区域网络(SAN)结构由光纤通道使用链接级，基于每跳的等级3，并且，在某些情况下，等级2服务和缓冲区对缓冲区流量控制运载。这些业务类别不支持端到端流量控制。当有缓慢的设备附加对结构时，终端设备不接受帧以已配置的或经过协商的速率。缓慢的设备，指缓慢的流失设备，导致Inter-Switch Link (ISL)协议ISL)信用值在为这些设备注定的流量的短路并且堵塞链路。信用值短路影响使用同一条ISL链路在结构的无关的流，即使目的地设备不体验慢流失。

三测验运行了：

1. 缓慢的波尔特仿真- R_RDY迪莱10000us (10毫秒)
2. 缓慢的波尔特仿真- R_RDY迪莱1500000us (1.5秒)
3. 端口监控程序-缓慢的波尔特仿真- R_RDY迪莱1500000us (1.5秒)

拓扑

所有端口是4 Gbps。

```

172.18.121.64      fc13/1      fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2

```

```

NX-OS 5.2(2d) NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)

```

```
rtp-san-23-02-9513# show mod
```

Mod	Ports	Module-Type	Model	Status
1	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
2	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
3	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
4	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
9	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
10	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
11	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
12	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
13	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok

```
rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)
```

```
rtp-san-23-01-9513# show mod
```

Mod	Ports	Module-Type	Model	Status
1	4	10 Gbps FC Module	DS-X9704	ok
2	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok
3	16	16x1GE, Storage Services Node	DS-X9316-SSNK9	ok
4	32	1/2/4/8/10 Gbps Advanced FC Module	DS-X9232-256K9	ok
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *

背景信息

当他们适用于gen4线路卡，此部分描述在in命令的限制Cisco NX-OS网络操作系统。

注意：使用[命令查找工具](#) ([仅限注册用户](#)) 可获取有关本部分所使用命令的详细信息。

NX-OS版本5.2(1)

show interface计数器~~和show interface聚合计数器~~命令返回‘保持接收B2B的信用值’，并且‘请传送保持’与TBBZ和RBBZ值的B2B信用值被交换。

fcmac计数器正确。

请参阅Cisco Bug ID [CSCts28865](#) , "B2B信用值不正确0个的转变关于生成4线路卡".

NX-OS版本5.2(2d)

这些命令不运作 :

- show logging内置flow-control超时丢包模块13 -语法错误。
- show logging内置flow-control请求超时模块13 -语法错误。
- 丢弃的show hardware内部数据包流-对show hardware内部统计信息模块13 pktflow丢弃的命令的点。
- show hardware内部数据包已丢失原因模块2 -不支持的。
- show hardware内部xbar 0排队数据包INFO -无效命令。

NX-OS版本5.2(6a)

这些命令不运作 :

- show hardware内部数据包已丢失原因模块2 -不支持的。
- show hardware内部xbar 0排队数据包INFO -无效命令。

NX-OS版本5.2(8)

不支持show hardware内部数据包已丢失原因模块2命令。

新线路卡命令 , show hardware内部que inst 0-3内存iqm-statusmem0 & 1 , 是可用的。此命令替换show hardware内部xbar 0个排队数据包INFO in命令生成1-3线路卡。

丢弃在接口不增加。请参阅Cisco Bug ID [CSCud77292](#) , "Gen 4线路卡不增加在接口统计信息的输出丢弃".

fclfOutDiscards不看上去被派出。

所有计数器比generation1-3计数器有不同的名称。

fcmac计数器不包含这五个软件计数器;他们在内置失败记录日志(OBFL)错误统计仅出现 :

- FCP_SW_CNTR_RX_WT_AVG_B2B_ZERO
- FCP_SW_CNTR_TX_WT_AVG_B2B_ZERO
- FCP_SW_CNTR_FORCE_TIMEOUT_ON
- FCP_SW_CNTR_FORCE_TIMEOUT_OFF
- FCP_SW_CNTR_CREDIT_LOSS

请参阅Cisco Bug ID [CSCud93629](#) , "Gen 4 fcmac计数器不包含几个软件计数器".

测试 1 : 缓慢的波尔特仿真- R_RDY迪莱10000us (10毫秒)

步骤概述1-9

这是测试程序的概述缓慢的端口仿真的与R-RDY延迟1000us (10毫秒)。

fc4/13是端口连接对缓慢的设备，并且fc13/13是端口连接对发送方。

1. 启动Agilent流量103/3 > 103/2。
2. 让在30秒它运行。
3. 在rtp-san-23-02-9513的问题一组命令。
4. 等待\30 \秒。
5. 在rtp-san-23-02-9513的问题一组命令。
6. 在rtp-san-23-01-9513的问题一组命令。
7. 等待\30 \秒。
8. 在rtp-san-23-01-9513的问题一组命令。
9. 终止测验。

MD值和计数器在步骤3以后：rtp-san-23-02-9513 fc13/13 -波尔特连接到发送方

接口计数器- fc13/13

这些是更改，若有，在MD计数器在步骤3以后：

输入丢弃-从上一个值的没有更改。
输入OLS -从上一个值的没有更改。
输入LRR -从上一个值的没有更改。
输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。
输出OLS -从上一个值的没有更改。
输出LRR -从上一个值的没有更改。
输出NOS -从上一个值的没有更改。

接收B2B从零的信用值转变-不获取。
传输B2B从零的信用值转变-不获取。
接收B2B信用值保持的65530 - 65530 -从上一个值的没有更改。
传输B2B信用值保持的128 - 128 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令发出：

```
172.18.121.64      fc13/1          fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2
NX-OS 5.2(2d)
NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
rtp-san-23-02-9513# show mod
Mod  Ports  Module-Type          Model              Status
---  -
1    8      IP Storage Services Module  DS-X9308-SMIP     powered-dn
2    8      10 Gbps FCoE Module        DS-X9708-K9       powered-dn
3    8      10 Gbps FCoE Module        DS-X9708-K9       powered-dn
4    22     4x1GE IPS, 18x1/2/4Gbps FC Module  DS-X9304-18K9     ok
```

5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
9	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
10	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
11	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
12	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
13	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

Mod	Ports	Module-Type	Model	Status
1	4	10 Gbps FC Module	DS-X9704	ok
2	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok
3	16	16x1GE, Storage Services Node	DS-X9316-SSNK9	ok
4	32	1/2/4/8/10 Gbps Advanced FC Module	DS-X9232-256K9	ok
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *

计数器可适用对端口fc13/13没有更改。

丢弃的Supervisor数据包流

一新的line interface (cli) command命令，丢弃的show hardware内部统计信息模块13 pktflow，是可用的。

没有计数器可适用对fc13/13更改的端口。

线路卡OBFL错误统计

此命令发出：

```
172.18.121.64 fc13/1 fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2
```

```
NX-OS 5.2(2d) NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
```

rtp-san-23-02-9513# show mod

Mod	Ports	Module-Type	Model	Status
1	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
2	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
3	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
4	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
9	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
10	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
11	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
12	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
13	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

Mod	Ports	Module-Type	Model	Status
-----	-------	-------------	-------	--------

```

-----
1    4    10 Gbps FC Module                DS-X9704                ok
2    48   1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9         ok
3    16   16x1GE, Storage Services Node      DS-X9316-SSNK9        ok
4    32   1/2/4/8/10 Gbps Advanced FC Module DS-X9232-256K9       ok
7    0    Supervisor/Fabric-2a               DS-X9530-SF2AK9       ha-standby
8    0    Supervisor/Fabric-2a               DS-X9530-SF2AK9       active *

```

计数器可适用对端口fc13/13没有更改。

线路卡OBFL Flow-control超时丢包

此命令发出：

```

172.18.121.64    fc13/1          fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2

```

```

NX-OS 5.2(2d)                                NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
rtp-san-23-02-9513# show mod

```

Mod	Ports	Module-Type	Model	Status
1	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
2	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
3	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
4	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
9	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
10	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
11	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
12	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
13	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok

```

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

```

```

rtp-san-23-01-9513# show mod

```

Mod	Ports	Module-Type	Model	Status
1	4	10 Gbps FC Module	DS-X9704	ok
2	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok
3	16	16x1GE, Storage Services Node	DS-X9316-SSNK9	ok
4	32	1/2/4/8/10 Gbps Advanced FC Module	DS-X9232-256K9	ok
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *

当show logging内置超时丢包解析时，有语法错误。

线路卡OBFL Flow-control请求超时

此命令发出：

```

172.18.121.64    fc13/1          fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2

```

```

NX-OS 5.2(2d)                                NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
rtp-san-23-02-9513# show mod
Mod Ports Module-Type                Model                Status

```



```

-----
1    8    IP Storage Services Module      DS-X9308-SMIP    powered-dn
2    8    10 Gbps FCoE Module            DS-X9708-K9     powered-dn
3    8    10 Gbps FCoE Module            DS-X9708-K9     powered-dn
4    22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
5    24   1/2/4/8 Gbps FC Module         DS-X9224-96K9   ok
6    8    10 Gbps FCoE Module            DS-X9708-K9     powered-dn
7    0    Supervisor/Fabric-2a           DS-X9530-SF2AK9 active *
8    0    Supervisor/Fabric-2a           DS-X9530-SF2AK9 ha-standby
9    8    IP Storage Services Module      DS-X9308-SMIP    powered-dn
10   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
11   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
12   24   1/2/4/8 Gbps FC Module         DS-X9224-96K9   ok
13   48   1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9 ok

```

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

```

Mod  Ports  Module-Type                Model                Status
-----
1    4      10 Gbps FC Module          DS-X9704             ok
2    48     1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9      ok
3    16     16x1GE, Storage Services Node DS-X9316-SSNK9      ok
4    32     1/2/4/8/10 Gbps Advanced FC Module DS-X9232-256K9      ok
7    0      Supervisor/Fabric-2a       DS-X9530-SF2AK9     ha-standby
8    0      Supervisor/Fabric-2a       DS-X9530-SF2AK9     active *

```

当show logging内置请求超时解析时，有语法错误。

Creditmon

此命令发出：

```

172.18.121.64    fc13/1    fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2

```

```

NX-OS 5.2(2d)                                NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
rtp-san-23-02-9513# show mod

```

```

Mod  Ports  Module-Type                Model                Status
-----
1    8      IP Storage Services Module      DS-X9308-SMIP    powered-dn
2    8      10 Gbps FCoE Module            DS-X9708-K9     powered-dn
3    8      10 Gbps FCoE Module            DS-X9708-K9     powered-dn
4    22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
5    24   1/2/4/8 Gbps FC Module         DS-X9224-96K9   ok
6    8      10 Gbps FCoE Module            DS-X9708-K9     powered-dn
7    0      Supervisor/Fabric-2a           DS-X9530-SF2AK9 active *
8    0      Supervisor/Fabric-2a           DS-X9530-SF2AK9 ha-standby
9    8      IP Storage Services Module      DS-X9308-SMIP    powered-dn
10   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
11   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9   ok
12   24   1/2/4/8 Gbps FC Module         DS-X9224-96K9   ok
13   48   1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9 ok

```

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

```

Mod  Ports  Module-Type                Model                Status
-----
1    4      10 Gbps FC Module          DS-X9704             ok
2    48     1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9      ok
3    16     16x1GE, Storage Services Node DS-X9316-SSNK9      ok
4    32     1/2/4/8/10 Gbps Advanced FC Module DS-X9232-256K9      ok

```

```
7 0 Supervisor/Fabric-2a DS-X9530-SF2AK9 ha-standby
8 0 Supervisor/Fabric-2a DS-X9530-SF2AK9 active *
```

计数器可适用对端口fc13/13没有更改。

线路卡统计信息

此命令给此示例输出：

```
172.18.121.64 fc13/1 fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2
```

```
NX-OS 5.2(2d) NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
```

rtp-san-23-02-9513# show mod

Mod	Ports	Module-Type	Model	Status
1	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
2	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
3	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
4	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
9	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
10	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
11	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
12	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
13	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

Mod	Ports	Module-Type	Model	Status
1	4	10 Gbps FC Module	DS-X9704	ok
2	48	1/2/4/8/10 Gbps Advanced FC Module	DS-X9248-256K9	ok
3	16	16x1GE, Storage Services Node	DS-X9316-SSNK9	ok
4	32	1/2/4/8/10 Gbps Advanced FC Module	DS-X9232-256K9	ok
7	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	ha-standby
8	0	Supervisor/Fabric-2a	DS-X9530-SF2AK9	active *

线路卡信用值INFO

此命令发出：

```
172.18.121.64 fc13/1 fc4/9 172.18.121.16
Agilent 103/3--fc13/13 rtp-san-23-02-9513 =====PC 237===== rtp-san-23-01-9513 fc4/13--
Agilent 103/2
```

```
NX-OS 5.2(2d) NX-OS 5.2(8) rtp-san-23-02-9513
9513 sup-2a/fab3 NX-OS 5.2(2d)
```

rtp-san-23-02-9513# show mod

Mod	Ports	Module-Type	Model	Status
1	8	IP Storage Services Module	DS-X9308-SMIP	powered-dn
2	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
3	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn
4	22	4x1GE IPS, 18x1/2/4Gbps FC Module	DS-X9304-18K9	ok
5	24	1/2/4/8 Gbps FC Module	DS-X9224-96K9	ok
6	8	10 Gbps FCoE Module	DS-X9708-K9	powered-dn

```

7    0    Supervisor/Fabric-2a          DS-X9530-SF2AK9    active *
8    0    Supervisor/Fabric-2a          DS-X9530-SF2AK9    ha-standby
9    8    IP Storage Services Module     DS-X9308-SMIP      powered-dn
10   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9      ok
11   22   4x1GE IPS, 18x1/2/4Gbps FC Module DS-X9304-18K9      ok
12   24   1/2/4/8 Gbps FC Module         DS-X9224-96K9      ok
13   48   1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9     ok

```

rtp-san-23-01-9513 9513 sup-2a/fab3 NX-OS 5.2(8)

rtp-san-23-01-9513# show mod

```

Mod  Ports  Module-Type                Model                Status
----  -----  -----
1    4      10 Gbps FC Module         DS-X9704             ok
2    48     1/2/4/8/10 Gbps Advanced FC Module DS-X9248-256K9      ok
3    16     16x1GE, Storage Services Node DS-X9316-SSNK9      ok
4    32     1/2/4/8/10 Gbps Advanced FC Module DS-X9232-256K9     ok
7    0      Supervisor/Fabric-2a     DS-X9530-SF2AK9     ha-standby
8    0      Supervisor/Fabric-2a     DS-X9530-SF2AK9     active *

```

没有从上一个值的更改。以下是输出示例：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20   | 0x26   | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80   | 0x0    | Shared |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20   | 0x26   | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80   | 0x0    | Shared |
+-----+-----+-----+-----+-----+-----+

```

输出不是可用的。

MD值和计数器在步骤5以后：rtp-san-23-02-9513 Port-Channel 237 -发送方边的fc13/1

接口计数器

这些是更改，若有，在MD计数器在步骤5以后：

输入丢弃-从上一个值的没有更改。
输入OLS -从上一个值的没有更改。
输入LRR -从上一个值的没有更改。
输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。
输出OLS -从上一个值的没有更改。
输出LRR -从上一个值的没有更改。
输出NOS -从上一个值的没有更改。

接收B2B从零的信用值转变-不获取。
传输B2B从零的信用值转变-不获取。
保持接收B2B的信用值- 250，但是从上一个值的没有更改。
保持传输B2B的信用值- 0，但是从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令给此示例输出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x20 |   0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x80 |    0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
```

丢弃的Supervisor数据包流

一新CLI命令，丢弃的show hardware内部统计信息模块13 pktflow，是可用的。

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x20 |   0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x80 |    0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
```

线路卡OBFL错误统计

此命令给此示例输出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x20 |   0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x80 |    0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
```

线路卡OBFL Flow-control超时丢包

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x20 |   0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x80 |    0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
```

当show logging内置超时丢包解析时，有语法错误。

线路卡OBFL Flow-control请求超时

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  |  0/0 |   Tbird Mac Driver |    0x20 |   0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
```

```
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
```

当show logging内置信请求超时解析时，有语法错误。

Creditmon

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13   | 0/0 | Tbird Mac Driver | 0x20  | 0x26  | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13   | 0/0 | Tbird Mac Driver | 0x80  | 0x0   | Shared |
+-----+-----+-----+-----+-----+-----+
```

计数器可适用对端口fc13/1没有更改。

线路卡统计信息

此命令给此示例输出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13   | 0/0 | Tbird Mac Driver | 0x20  | 0x26  | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13   | 0/0 | Tbird Mac Driver | 0x80  | 0x0   | Shared |
+-----+-----+-----+-----+-----+-----+
```

线路卡信用值INFO

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13   | 0/0 | Tbird Mac Driver | 0x20  | 0x26  | Shared |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
```

PORT NO	SI/PRIOR	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x80	0x0	Shared

没有从上一个值的更改。以下是输出示例：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIOR | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIOR | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIOR | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |
+-----+-----+-----+-----+-----+-----+

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIOR | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

```

输出不是可用的。

MD值和计数器在步骤6以后：rtp-san-23-01-9513 Port-Channel 237 -减慢流失边的fc4/9

接口计数器- fc4/9

这些是更改，若有，在MD计数器在步骤6以后：

- 输入丢弃-从上一个值的没有更改。
- 输入OLS -从上一个值的没有更改。
- 输入LRR -从上一个值的没有更改。
- 输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。

输出OLS -从上一个值的没有更改。
 输出LRR -从上一个值的没有更改。
 输出NOS -从上一个值的没有更改。

接收B2B从零- 31413的信用值转变-在末端(没有Delta)。如果由THB_RCM_RCP5_RBBZ_CH0去，它是29541-26055=3486。

传输B2B信用值从零- 5过渡了-在末端(没有Delta)。如果由THB_TMM_PORT_TBBZ_CH0去，它是5-5=0。

保持接收B2B的信用值- 0 -从上一个值的没有更改。

保持传输B2B的信用值- 250 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |              | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |              | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
    
```

计数器可适用对端口fc4/9没有更改。

丢弃的Supervisor数据包流

此命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |              | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |              | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+
    
```

计数器可适用对端口fc4/9没有更改。

线路卡OBFL错误统计

此命令发出：

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x20	0x26	Shared

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x80	0x0	Shared

计数器可适用对端口fc4/9没有更改。

线路卡OBFL Flow-control超时丢包

此命令发出：

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x20	0x26	Shared

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x80	0x0	Shared

计数器可适用对端口fc4/9没有更改。

线路卡OBFL Flow-control请求超时

此命令发出：

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x20	0x26	Shared

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x80	0x0	Shared

计数器可适用对端口fc4/9没有更改。

Creditmon

此命令发出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

线路卡统计信息

此命令给此示例输出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

线路卡信用值INFO

此命令发出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

没有从上一个值的更改。以下是输出示例：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 |   Tbird Mac Driver |    0x20 |    0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 |   Tbird Mac Driver |    0x80 |    0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令给此示例输出：

```

slot 4 show hardware internal que inst 1 memory iqm-statusmem0
slot 4 show hardware internal que inst 1 memory iqm-statusmem1

```

```

rtp-san-23-01-9513#slot 4 show hardware internal que inst 1 memory iqm-statusmem0
+-----+-----+-----+-----+-----+-----+
| IQM: PG0 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|

```

仅非零条目显示。每个非零位指示在虚拟输出队列(VOQ)的一待帧该InfiniBand的(IB)。

```

+-----+-----+-----+-----+-----+-----+
| GI (Hex) | Prio 0 | Prio 1 | Prio 2 | Prio 3 |
+-----+-----+-----+-----+-----+-----+
|          | 000000 | 000000 | 000000 | 000001 |
+-----+-----+-----+-----+-----+-----+
          ^                               ^
          |                               |
egress port (slow)                       ingress port

```

这在此测验表明一个或更多数据包排队对目的地索引xC，是端口fc4/13：

```

rtp-san-23-01-9513# show port internal info interface fc4/13
fc4/13 - if_index: 0x0118C000, phy_port_index: 0xc
      local_index: 0xc

```

000001指示雷鸟ASIC实例的1.第一个端口。对于型号DS-X9232-256K9，实例1是为端口9-16，因此指示fc4/9是数据包ingressing去fc4/13的地方。

对于型号DS-X9248-256K9，每个雷鸟实例把柄12个端口，因此实例1从端口13将启动。仅非零条目显示。

```

rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+-----+-----+-----+-----+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|

```

MD值和计数器在步骤8以后：rtp-san-23-01-9513 fc4/13 -波尔特连接到缓慢的设备

接口计数器- fc4/13

这些是更改，若有，在MD计数器在步骤8以后：

输入丢弃-从上一个值的没有更改。
输入OLS -从上一个值的没有更改。
输入LRR -从上一个值的没有更改。
输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。
输出OLS -从上一个值的没有更改。
输出LRR -从上一个值的没有更改。
输出NOS -从上一个值的没有更改。

接收B2B从零的信用值转变-不获取。如果由THB_RCM_RCP5_RBBZ_CH0去，它是11-11=0。
传输B2B从零的信用值转变-不获取。如果由THB_TMM_PORT_TBBZ_CH0去，它是43034-39908=3126。
接收B2B信用值保持的32 -从上一个值的没有更改。
传输B2B信用值保持的0 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

丢弃的Supervisor数据包流

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

在[MD值和计数器](#)新CLI命令提及的这[在步骤5以后，丢弃的Supervisor数据包流](#)。

线路卡OBFL错误统计

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

线路卡OBFL Flow-control超时丢包

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

线路卡OBFL Flow-control请求超时

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

没有输出。

Creditmon

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

线路卡统计信息

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

线路卡信用值INFO

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hardware internal que inst 1 memory iqm-statusmem1
+-----+
| IQM: PG1 Status Memory for Tbird Que Driver
| Inst 1; port(s) 9-16
|
```

使用所有Tx赊帐。设备不及时返回R_RDYs。以下是输出示例：

```
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x20  | 0x0  | Full |
+-----+-----+-----+-----+-----+
```

```

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x80 | 0x80 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x20 | 0x0 | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x80 | 0x80 | Full |
+-----+-----+-----+-----+-----+-----+

```

输出不是可用的。

参考的[MD值和计数器在步骤6以后，线路卡排队的信息包。](#)

测试 2：缓慢的波尔特仿真- R_RDY迪莱1500000us (1.5秒)

步骤概述1-10

这是测试程序的概述缓慢的端口仿真的与R-RDY延迟1500000us (1.5秒)。

fc4/13是端口连接对缓慢的设备，并且fc13/13是端口连接对发送方。

1. 启动Agilent流量103/3 -> 103/2。
2. 让在30秒它运行。
3. 在rtp-san-23-02-9513的问题一组命令。
4. 等待\30 \秒。
5. 在rtp-san-23-02-9513的问题一组命令。
6. 在rtp-san-23-01-9513的问题一组命令。
7. 等待\30 \秒。
8. 在rtp-san-23-01-9513的问题一组命令。
9. 终止测验。

MD值和计数器在步骤4:以后rtp-san-23-02-9513 fc13/13 -波尔特连接到发送方

接口计数器- fc13/13

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 16/0 |   Tbird Mac Driver |    0x20 |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 16/0 |   Tbird Mac Driver |    0x80 |    0x80 | Full |
+-----+-----+-----+-----+-----+-----+
```

这些是更改，若有，在MD计数器在步骤4:以后

输入丢弃-从上一个值的没有更改。

输入OLS -从上一个值的没有更改。

输入LRR -从上一个值的没有更改。

输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。

输出OLS -从上一个值的没有更改。

输出LRR -从上一个值的没有更改。

输出NOS -从上一个值的没有更改。

传输B2B信用值从从上一个值的零- 0 -没有更改过渡了。

接收B2B信用值从零- **+24483**过渡了。

保持接收B2B的信用值- 65530 -从上一个值的没有更改。

传输B2B信用值保持的128 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令发出：

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 16/0 |   Tbird Mac Driver |    0x20 |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS |   BW |
| NO  | PRIO |                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 16/0 |   Tbird Mac Driver |    0x80 |    0x80 | Full |
+-----+-----+-----+-----+-----+-----+
```

计数器可适用对端口fc13/13没有更改。

丢弃的Supervisor数据包流

此命令发出：

```
=====  
Device Credit Information - RX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x20	0x0	Full

```
=====  
Device Credit Information - TX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x80	0x80	Full

计数器可适用对端口fc13/13没有更改。

线路卡OBFL错误统计

此命令给此示例输出：

```
=====  
Device Credit Information - RX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x20	0x0	Full

```
=====  
Device Credit Information - TX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x80	0x80	Full

线路卡OBFL Flow-control超时丢包

此命令发出：

```
=====  
Device Credit Information - RX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x20	0x0	Full

```
=====  
Device Credit Information - TX  
=====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x80	0x80	Full

当show logging内置超时丢包解析时，有语法错误。

线路卡OBFL Flow-control请求超时

此命令发出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 16/0 | Tbird Mac Driver | 0x20 | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 16/0 | Tbird Mac Driver | 0x80 | 0x80 | Full |  
+-----+-----+-----+-----+-----+-----+
```

当show logging内置请求超时解析时，有语法错误。

Creditmon

此命令发出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 16/0 | Tbird Mac Driver | 0x20 | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 16/0 | Tbird Mac Driver | 0x80 | 0x80 | Full |  
+-----+-----+-----+-----+-----+-----+
```

计数器可适用对模块13没有更改。

线路卡统计信息

此命令给此示例输出：

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13   | 16/0 | Tbird Mac Driver | 0x20 | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO   | PRIO|             | CONFIGURED | USED   | MODE |  
+-----+-----+-----+-----+-----+-----+
```

13	16/0	Tbird Mac Driver	0x80	0x80	Full
----	------	------------------	------	-------------	------

线路卡信用值INFO

此命令发出：

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x20 | 0x0 | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver | 0x80 | 0x80 | Full |
+-----+-----+-----+-----+-----+-----+

```

没有从上一个值的更改。以下是输出示例：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO  | PRIO |             | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |
+-----+-----+-----+-----+-----+-----+

```

没有可用的输出。

波尔特林克事件

此命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

没有从上一个值的更改。

MD值和计数器在步骤6以后：rtp-san-23-02-9513 Port-Channel 237 -发送方边的fc13/1

接口计数器

此命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

这些是更改，若有，在MD计数器在步骤6以后：

- 输入丢弃-从上一个值的没有更改。
- 输入OLS -从上一个值的没有更改。
- 输入LRR -从上一个值的没有更改。
- 输入NOS-从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。
 输出OLS -从上一个值的没有更改。
 输出LRR-从上一个值的没有更改。
 输出NOS-从上一个值的没有更改。

传输B2B从零- +3531的信用值转变。
 接收B2B从零的信用值转变-从上一个值的没有更改。
 保持接收B2B的信用值- 250 -从上一个值的没有更改。
 保持传输B2B的信用值- 0 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令给此示例输出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS |  BW  |
| NO   | PRIO|                     | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 0/0 |   Tbird Mac Driver  |    0x20 |    0x26 | Shared |
+-----+-----+-----+-----+-----+-----+

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS |  BW  |
| NO   | PRIO|                     | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 0/0 |   Tbird Mac Driver  |    0x80 |    0x0  | Shared |
+-----+-----+-----+-----+-----+-----+
```

丢弃的Supervisor数据包流

此命令给此示例输出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS |  BW  |
| NO   | PRIO|                     | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 0/0 |   Tbird Mac Driver  |    0x20 |    0x26 | Shared |
+-----+-----+-----+-----+-----+-----+

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS |  BW  |
| NO   | PRIO|                     | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
|  13  | 0/0 |   Tbird Mac Driver  |    0x80 |    0x0  | Shared |
+-----+-----+-----+-----+-----+-----+
```

线路卡OBFL错误统计

此命令给此示例输出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

线路卡OBFL Flow-control超时丢包

此命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

当show logging内置超时丢包解析时，有语法错误。

线路卡OBFL Flow-control请求超时

此命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x20 | 0x26 | Shared |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 13 | 0/0 | Tbird Mac Driver | 0x80 | 0x0 | Shared |  
+-----+-----+-----+-----+-----+-----+
```

当show logging内置请求超时解析时，有语法错误。

Creditmon

此命令发出：

```
rtp-san-23-02-9513# slot 13 show hardware internal credit-info port 13
```

```
==== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x20	0x26	Shared

```
==== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	0/0	Tbird Mac Driver	0x80	0x0	Shared

没有从上一个值的更改。

线路卡统计信息

此命令给此示例输出：

```
slot 13 show hardware internal statistics device fcmac all port 13  
rtp-san-23-02-9513# slot 13 show hardware internal statistics device fcmac all port 1
```

```
|-----|  
| Device:Tbird Mac Driver          Role:FCMAC          Mod:13          |  
| Last cleared @ Wed Nov 28 15:36:11 2012          |  
|-----|  
Instance:0  
ID   Name                               Value                               Ports  Next value(30sec)  Delta  
--   ----                               -
```

119	THB_TMM_TIMEOUT_STATS_DROP	0000000000027128	1-6 -	0000000000027230	+102
1001	THB_RPB_OUT_PKT_CNT	0000000000897031	1 -	0000000000897076	+45
1002	THB_RPB_NC_FRM_CNT	0000000000320352	1 -	0000000000320358	+6
1003	THB_RPB_LP_FRM_CNT	0000000000320352	1 -	0000000000320358	+6
1016	THB_TMM_PORT_TBBZ_CH0	0000000000050587	1 -	0000000000053961	+3374
1028	THB_TMM_PORT_TWAIT_CNT	0000032055488369	1 -	0000034152485776	
+2096997407					
1033	THB_TMM_PORT_TX_FRAME_CNT	0000000001098361	1 -	0000000001131514	+33153
1048	IP_FCMAC_CNT_STATS_DATA_TX_CLASS3_FRAMES	0000000000521794	1 -	0000000000554912	+33118
1097	THB_RXF_TO_LB_CNT	0000000000320357	1 -	0000000000320363	+6
1117	THB_TMM_TOLB_LB_CNT	0000000000320352	1 -	0000000000320358	+6
1118	THB_TMM_TOLB_TO_CNT	0000000000027144	1 -	0000000000027246	+102
1122	THB_TMM_TOLB_TIMEOUT_DROP_CNT	0000000000027139	1 -	0000000000027241	+102

线路卡信用值INFO

此命令给此示例输出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 1 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 1 | 0/0 | Tbird Mac Driver | 0x1f4 | 0x1f4 | Full |  
+-----+-----+-----+-----+-----+-----+
```

线路卡排队的信息包

这些命令发出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 1 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 1 | 0/0 | Tbird Mac Driver | 0x1f4 | 0x1f4 | Full |  
+-----+-----+-----+-----+-----+-----+
```

没有可用的输出。

波尔特林克事件

此命令发出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
=====  
Device Credit Information - RX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+  
| 1 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |  
+-----+-----+-----+-----+-----+-----+  
=====  
Device Credit Information - TX  
=====  
+-----+-----+-----+-----+-----+-----+  
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |  
| NO | PRIO | | CONFIGURED | USED | MODE |  
+-----+-----+-----+-----+-----+-----+
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
1	0/0	Tbird Mac Driver	0x1f4	0x1f4	Full

没有从上一个值的更改。

MD值和计数器在步骤7以后 : rtp-san-23-01-9513 Port-Channel 237 -减慢流失边的fc4/9

接口计数器- fc4/9

此命令发出 :

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
1	0/0	Tbird Mac Driver	0xfa	0x0	Full

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
1	0/0	Tbird Mac Driver	0x1f4	0x1f4	Full

这些是更改，若有，在MD计数器在步骤7以后：

输入丢弃-从上一个值的没有更改。
 输入OLS -从上一个值的没有更改。
 输入LRR -从上一个值的没有更改。
 输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。
 输出OLS -从上一个值的没有更改。
 输出LRR -从上一个值的没有更改。
 输出NOS -从上一个值的没有更改。

传输B2B从零- 0 -没有更改的信用值转变从上一个值。
 接收B2B从零- +57467的信用值转变。
 保持接收B2B的信用值- 0 -从上一个值的没有更改。
 保持传输B2B的信用值- 250 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令给此示例输出：

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO|                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO|                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver |    0x1f4 |   0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+
```

丢弃的Supervisor数据包流

此命令给此示例输出：

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO|                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO|                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver |    0x1f4 |   0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+
```

线路卡OBFL错误统计

此命令给此示例输出：

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO|                 | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
```

```

+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |   0x1f4 |  0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡OBFL Flow-control超时丢包

此命令给此示例输出：

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |   0xfa |   0x0 | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |   0x1f4 |  0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡OBFL Flow-control请求超时

此命令发出：

```
slot 13 show hard internal credit-info port 1
```

```
rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |   0xfa |   0x0 | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |   0x1f4 |  0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+

```

没有从上一个值的更改。

Creditmon

此命令发出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0x1f4 |   0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+
```

没有fc4/9的事件。

线路卡统计信息

此命令给此示例输出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0x1f4 |   0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+
```

线路卡信用值INFO

此命令发出：

slot 13 show hard internal credit-info port 1

rtp-san-23-02-9513# slot 13 show hard internal credit-info port 1

```
==== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
==== Device Credit Information - TX =====
```

```

+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  1  | 0/0 |   Tbird Mac Driver  |    0x1f4 |  0x1f4 | Full |
+-----+-----+-----+-----+-----+-----+

```

没有从上一个值的更改，但是使用所有RX除帐，并且使用六额外信誉。以下是输出示例：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0x1f4 |  0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0xfa  |    0x0  | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0x1f4 |  0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0xfa  |    0x0  | Full |
+-----+-----+-----+-----+-----+-----+

```

这在此测验表明一个或更多数据包排队对目的地索引xC，是端口fc4/13：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0x1f4 |  0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |   Tbird Mac Driver  |    0xfa  |    0x0  | Full |
+-----+-----+-----+-----+-----+-----+

```

000001指示雷鸟ASIC实例的1.第一个端口。对于型号DS-X9232-256K9，实例1是为端口9-16，因

此指示fc4/9是数据包ingressing去fc4/13的地方。

对于型号DS-X9248-256K9，每个雷鸟实例把柄12个端口，因此实例1从端口13将启动。

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
```

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0x1f4	0x1fa	Full

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0xfa	0x0	Full

仅非零条目显示。每个非零位指示等待在VOQ的帧那的IB。

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
```

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0x1f4	0x1fa	Full

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0xfa	0x0	Full

仅非零条目显示。

波尔特林克事件

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
```

```
===== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0x1f4	0x1fa	Full

```
===== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
9	0/0	Tbird Mac Driver	0xfa	0x0	Full

没有从上一个值的更改。

MD值和计数器在步骤9:以后rtp-san-23-01-9513 fc4/13 -波尔特连接到缓慢的设备

接口计数器- fc4/13

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO   | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9   | 0/0 |   Tbird Mac Driver  |   0x1f4 |  0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO   | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9   | 0/0 |   Tbird Mac Driver  |    0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
```

这些是更改，若有，在MD计数器在步骤9:以后

输入丢弃-从上一个值的没有更改。

输入OLS -从上一个值的没有更改。

输入LRR - +18。

输入NOS -从上一个值的没有更改。

输出丢弃-从上一个值的没有更改。

输出OLS -从上一个值的没有更改。

输出LRR -从上一个值的没有更改。

输出NOS -从上一个值的没有更改。

传输B2B从零+27的信用值转变。

接收B2B从零+27的信用值转变。

保持接收B2B的信用值- 32 -从上一个值的没有更改。

保持传输B2B的信用值- 0 -从上一个值的没有更改。

Supervisor级别硬件检测的错误

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO   | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
|  9   | 0/0 |   Tbird Mac Driver  |   0x1f4 |  0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO   | PRIO|                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |
+-----+-----+-----+-----+-----+

```

丢弃的Supervisor数据包流

此命令给此示例输出：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIO | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0x1f4 | 0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIO | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡OBFL错误统计

此命令给此示例输出：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIO | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0x1f4 | 0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIO | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0xfa | 0x0 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡OBFL Flow-control超时丢包

此命令给此示例输出：

```

rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |
| NO | PRIO | | CONFIGURED | USED | MODE |
+-----+-----+-----+-----+-----+-----+
| 9 | 0/0 | Tbird Mac Driver | 0x1f4 | 0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ | DEVICE NAME | CREDITS | CREDITS | BW |

```

NO	PRIO		CONFIGURED	USED	MODE
9	0/0	Tbird Mac Driver	0xfa	0x0	Full

线路卡OBFL Flow-control请求超时

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 9    | 0/0 | Tbird Mac Driver | 0x1f4   | 0x1fa   | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 9    | 0/0 | Tbird Mac Driver | 0xfa    | 0x0     | Full |
+-----+-----+-----+-----+-----+-----+
```

没有从上一个值的更改。

Creditmon

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 9    | 0/0 | Tbird Mac Driver | 0x1f4   | 0x1fa   | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 9    | 0/0 | Tbird Mac Driver | 0xfa    | 0x0     | Full |
+-----+-----+-----+-----+-----+-----+
```

线路卡统计信息

此命令给此示例输出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |   DEVICE NAME   | CREDITS | CREDITS | BW |
| NO  | PRIO |                 | CONFIGURED | USED    | MODE |
+-----+-----+-----+-----+-----+-----+
| 9    | 0/0 | Tbird Mac Driver | 0x1f4   | 0x1fa   | Full |
+-----+-----+-----+-----+-----+-----+
```



```

+-----+-----+-----+-----+-----+-----+
      ===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |      Tbird Mac Driver |      0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡信用值INFO

此命令发出：

```
rtp-san-23-01-9513# slot 4 show hard internal credit-info port 9
```

```

      ===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |      Tbird Mac Driver |    0x1f4 |    0x1fa | Full |
+-----+-----+-----+-----+-----+-----+
      ===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
|  9  | 0/0 |      Tbird Mac Driver |      0xfa |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+

```

没有从上一个值的更改，但是使用所有TX除帐。以下是输出示例：

```
rtp-san-23-01-9513
```

```

      ===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 |      Tbird Mac Driver |    0x20 |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+
      ===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 |      Tbird Mac Driver |    0x80 |    0x80 | Full |
+-----+-----+-----+-----+-----+-----+

```

线路卡排队的信息包

这些命令发出：

```
rtp-san-23-01-9513
```

```

      ===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |      DEVICE NAME      | CREDITS | CREDITS | BW |
| NO  | PRIO |                      | CONFIGURED | USED  | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 |      Tbird Mac Driver |    0x20 |    0x0 | Full |
+-----+-----+-----+-----+-----+-----+

```

```

===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver   | 0x80    | 0x80   | Full |
+-----+-----+-----+-----+-----+-----+

```

输出不是可用的。

参考的[MD值和计数器在步骤7以后，线路卡排队的信息包](#)。

波尔特林克事件

此命令发出：

```
rtp-san-23-01-9513
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver   | 0x20    | 0x0    | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver   | 0x80    | 0x80   | Full |
+-----+-----+-----+-----+-----+-----+

```

没有从上一个值的更改。

测试3：端口监控程序-缓慢的波尔特仿真- R_RDY迪莱 1500000us (1.5秒)

此端口监控程序，与R-RDY延迟的缓慢的端口仿真测验1500000us (1.5秒)根据Cisco Data Center Network Manager (DCNM)，版本6.1(1a)。

创建端口监控程序策略

这些命令给此示例输出：

```
rtp-san-23-01-9513
```

```

===== Device Credit Information - RX =====
+-----+-----+-----+-----+-----+-----+
| PORT | SI/ |     DEVICE NAME     | CREDITS | CREDITS | BW |
| NO  | PRIO |                     | CONFIGURED | USED   | MODE |
+-----+-----+-----+-----+-----+-----+
| 13  | 16/0 | Tbird Mac Driver   | 0x20    | 0x0    | Full |
+-----+-----+-----+-----+-----+-----+
===== Device Credit Information - TX =====

```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x80	0x80	Full

重新运行测验

与R_RDY迪莱1500000us (1.5的重新运行测试2秒)大约60秒。

查看门限值管理器日志

导航给设备管理器>日志>交换机居民>门限值管理器为了看到门限值管理器日志。

注意：此镜像被采取了在不同时间，并且不反射此示例测验。

在文本格式，测试3的门限值管理器日志是：

```
rtp-san-23-01-9513
```

```
==== Device Credit Information - RX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x20	0x0	Full

```
==== Device Credit Information - TX =====
```

PORT NO	SI/PRIO	DEVICE NAME	CREDITS CONFIGURED	CREDITS USED	BW MODE
13	16/0	Tbird Mac Driver	0x80	0x80	Full

注意：18399232是IfIndex，是0x0118C000并且对应于fc4/13。

```
rtp-san-23-01-9513# show port internal info interface-id 0x0118C000
fc4/13 - if_index: 0x0118C000, phy_port_index: 0xc
local_index: 0xc
```

对象标识符(OIDs)

```
rtp-san-23-01-9513# show port internal info interface-id 0x0118C000
fc4/13 - if_index: 0x0118C000, phy_port_index: 0xc
local_index: 0xc
```

注意：那里不看来是在Rx方向的一OID。

```
rtp-san-23-01-9513# show port internal info interface-id 0x0118C000
fc4/13 - if_index: 0x0118C000, phy_port_index: 0xc
local_index: 0xc
```

附录

计数器定义

这些是计数器和他们的定义：

计数器

- 201个THB_RCM_RCP0_RBBZ_CH0
- 272个THB_TMM_TIMEOUT_STATS_DROP
- 423个THB_EPR1_CNT_GOOD_SF_DROP
- 427个THB_EPR1_CNT_GOOD_PKT_DROP
- 439个THB_EPR1_CNT_OTHER_DROP
- 1122个THB_TMM_TOLB_TIMEOUT_DROP_CNT
- 1816个THB_TMM_PORT_TBBZ_CH0
- 1823个THB_TMM_PORT_FRM_DROP_CNT
- 1821个THB_TMM_PORT_NP_CNT
- 1822个THB_TMM_PORT_TOLB_FRM_SENT_CNT
- 1823个THB_TMM_PORT_FRM_DROP_CNT
- 1828个THB_TMM_PORT_TWAIT_CNT
- 1833个THB_TMM_PORT_TX_FRAME_CNT
- 1844个IP_FCMAC_CNT_STATS_DATA_RX_CLASS3_FRAMES
- 1848个IP_FCMAC_CNT_STATS_DATA_TX_CLASS3_FRAMES
- 1896个THB_RXF_NP_CNT
- 1897个THB_RXF_TO_LB_CNT
- 1900个THB_RXF_SPARE_CNT
- 1901个THB_TMM_CH_CNT_CH0
- 1911个THB_TMM_TO_CNT_CLASS_3
- 1917个THB_TMM_TOLB_LB_CNT
- 1918个THB_TMM_TOLB_TO_CNT
- 1922个THB_TMM_TOLB_TIMEOUT_DROP_CNT
- FCP_SW_CNTR_RX_WT_AVG_B2B_ZERO
- FCP_SW_CNTR_TX_WT_AVG_B2B_ZERO
- FCP_SW_CNTR_FORCE_TIMEOUT_ON
- FCP_SW_CNTR_FORCE_TIMEOUT_OFF
- FCP_SW_CNTR_CREDIT_LOSS

定义

- 总数转变到零在ch0的Rx B2B赊帐的;这身
- 此设备通信的接口返回的Tx B2B赊帐。
- 丢弃的超时stats，因为全双工stats的FIF
- 丢弃的超大帧访问控制表(ACL)编号。
- 丢弃的数据包ACL编号。
- 组播信息包的数量(MCST)丢弃了。
- 在出口的超时丢包。
- 总数转变到零在ch0的Tx B2B赊帐的;这身
- 帧编号在tolb_path或np路径丢弃了。
- 帧编号在正常路径，包括错误帧。
- 在tolb_path发送的帧编号。
- 帧编号在tolb_path或np路径丢弃了;代表
- 数据包是可用发送，但是信用值不是可用
- 没有列出的说明。
- 等级3帧编号接收的。
- 等级3帧编号传送的。
- 被服务的正常帧计数。
- 被服务的LB帧;计数被服务的timeout/LB帧
- 备用的cnt。
- 找不到。
- 找不到。
- 找不到。
- 找不到。
- 次数的计数接口在0个100ms的Rx B2B赊
- 次数的计数接口在0个100ms的Tx B2B赊
- '系统超时NO-信用值丢弃'阈值由此端口
- 端口从'系统超时NO-信用值丢弃'情况恢
- 时期计数端口通过信贷亏损恢复;这发生
- 克重置(LR)为了恢复丢失的赊帐。

命令发出对每交换机

这些是发出的命令交换rtp-san-23-02-9513：

- show clock
- show interface fc13/1
- show interface fc13/13
- show interface fc13/1计数器
- show interface fc13/13计数器
- show hardware内部错误模块13
- show hardware内部数据包流已丢失模块13

- 丢弃的show hardware内部统计信息模块13 pktflow
- show logging内置模块13错误统计
- show logging内置flow-control超时丢包模块13
- show logging内置flow-control请求超时模块13
- show process creditmon信用值LOS事件模块13
- slot 13 show hardware内部统计信息设备fcmac所有端口1
- slot 13 show hardware内部统计信息设备fcmac所有端口13
- slot 13显示硬内部信用值INFO端口1
- slot 13 show hardware内部信用值INFO端口13
- slot 13 show hardware内部que inst 0内存iqm-statusmem0
- slot 13 show hardware内部que inst 0内存iqm-statusmem1
- slot 13 show hardware内部que inst 1内存iqm-statusmem0
- slot 13 show hardware内部que inst 1内存iqm-statusmem1
- slot 13 show port config内部林克事件
- **末端

这些是发出的命令交换rtp-san-23-01-9513 :

- show clock
- show interface fc4/9
- show interface fc4/13
- show interface fc4/9计数器
- show interface fc4/13计数器
- show hardware内部错误模块4
- show hardware内部数据包流已丢失模块4
- 丢弃的show hardware内部统计信息模块4 pktflow
- show logging内置模块4错误统计
- show logging内置flow-control超时丢包模块4
- show logging内置flow-control请求超时模块4
- show process creditmon信用值LOS事件模块4
- 插槽4 show hardware内部统计信息设备fcmac所有端口9
- 插槽4 show hardware内部统计信息设备fcmac所有端口13
- 插槽4显示硬内部信用值INFO端口9
- 插槽4显示硬内部信用值INFO端口13
- 插槽4 show hardware内部que inst 1内存iqm-statusmem0
- 插槽4 show hardware内部que inst 1内存iqm-statusmem1
- 插槽4 show port config内部林克事件
- **末端