

# Des défaillances matérielles dépannez ASR 5000 et ASR gamme 5500

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## Introduction

Ce document décrit la procédure pour dépanner des questions sur des linecards de gamme 5000 et de gamme 5500 du routeur de services d'agrégation de Cisco (ASR). Cette procédure met en valeur certaines des commandes et les mots clé, obtenus à partir du fichier disque transistorisé (détail de support d'exposition) ont généré sur le châssis ASR 5000 ou ASR 5500. La sortie de chaque commande fournit des symptômes d'une carte défaillante et aide à indiquer exactement le problème. L'objectif ici n'est pas d'aborder des problématiques spécifiques sur une carte de ligne particulière, car il y a de nombreux différents problèmes matériels. D'ailleurs, les différentes situations pourraient varier juste assez qui rend n'importe quel guide de dépannage généralisé problématique.

## Procédure

1. Sélectionnez la commande **exceptionnelle d'alarme d'exposition**. La sortie de cette commande affiche la carte défaillante. Ces informations peuvent être trouvées dans le disque transistorisé.

```
***** show alarm outstanding *****  
Sev Object Event
```

-----

```
CR Card 7 Card Failure Detected on card 7 Device CPU_0 failure reason  
CARD_BOOT_TIMEOUT_EXPIRED
```

2. Sélectionnez la commande **bavarde d'historique de show snmp trap**. La personne à charge sur la question, des déroutements sont générées sur la défaillance matérielle qui s'est produite. Ces informations font partie du disque transistorisé.

```
***** show snmp trap history verbose *****  
Timestamp Trap Information
```

```
-----  
Tue Jan 28 08:24:18 2014 Internal trap notification 9 (CardBootFailed) card 7 type Packet  
Services Card
```

3. Sélectionnez la commande **de niveau d'erreur de shows log**. La personne à charge sur la question, des logs sont générées sur la défaillance matérielle qui s'est produite. Ces informations peuvent être trouvées dans le disque transistorisé.

```
***** show logs level error *****
```

```
2014-Jan-28+08:39:35.669 [hat 3018 critical] [8/0/4429 <hatsystem:0> atsystem_fail.c:1192]  
[hardware internal system syslog] Card Failure Detected on card 7 Device CPU_0
```

failure reason CARD\_BOOT\_TIMEOUT\_EXPIRED

4. Sélectionnez la commande de **matériel de carte d'exposition**. La sortie de la commande a les informations de version sur la carte. Ces informations sont incluses dans le disque transistorisé.

```
***** show card hardware *****
```

Card 7:

Card Type : Packet Services Card (R01)

Description : PSC

Starent Part Number : 530-02-0030 09

Starent Serial Num : PLB43074818

Switch Fabric Modes : control plane, switch fabric

(Version Information Unavailable) <--- Missing information due to card not accessible

5. Sélectionnez la commande de **diag de carte d'exposition**. La sortie de la commande inclut la panne en cours et dernière de la carte aussi bien que si la carte est utilisable. Ces informations sont incluses dans le disque transistorisé.

```
***** show card diag *****
```

Card 7:

Counters:

Successful Warm Boots : 2

(last at Friday March 02 15:02:37 EST 2012)

Successful Cold Boots : 21

(last at Monday December 16 14:09:24 EST 2013)

Total Boot Attempts : 0

In Service Date : Fri Jan 20 15:26:25 2012 (Estimated)

Status:

IDEEPROM Magic Number : Good

Boot Mode : Normal

Card Diagnostics : Pass

Current Failure : Failure: Device=CPU\_0, Reason=CARD\_BOOT\_TIMEOUT\_EXPIRED,

(0x03001000)

(last at Tuesday January 28 08:39:35 EST 2014)

Last Failure : Failure: Device=CPU\_0, Reason=CARD\_BOOT\_TIMEOUT\_EXPIRED,

(0x03001000)

(last at Tuesday January 28 08:39:35 EST 2014)

Card Usable : No (Current Failure)

Current Environment:

Temperature: Card : 23 C (limit 101 C)

Temperature: CPU0 : 23 C (limit 101 C)

Temperature: CPU1 : 25 C (limit 101 C)

Temperature: LM93 : 25 C (limit 101 C)

Voltage: 3.3V STANDBY : 3.285 V (min 3.130 V, max 3.458 V)

6. Sélectionnez la commande de **ressources en tâche d'exposition**. La sortie de la commande n'affiche aucune informations sur la carte défailante. Ces informations peuvent être trouvées dans le disque transistorisé.

```
***** show task resources *****
```

task cputime memory files sessions

cpu facility inst used allc used alloc used allc used allc S status

```
-----  
6/1 rmmgr 61 3.6% 10% 4.5M 23.0M 15 500 -- -- - good  
6/1 npumgr 6 1.5% 100% 81.4M 278.0M 26 1000 -- -- - good  
6/1 sitreap 6100841 0.0% 5.0% 0.1M 15.0M 4 100 -- -- - good  
6/1 msgd 6100839 0.8% 7.0% 0.8M 15.0M 6 500 -- -- - good  
6/1 nscontrol 6123706 0.2% 5.0% 1.4M 15.0M 9 500 -- -- - good  
<<<<<<<7/1 missing due to card 7 not running >>>>>>>>  
8/0 sitmain 80 0.0% 15% 10.9M 16.0M 14 1000 -- -- - good  
8/0 sitparent 80 0.1% 20% 10.5M 14.0M 11 500 -- -- - good  
8/0 evlogd 0 0.1% 95% 12.4M 70.0M 16 4000 -- -- - good  
8/0 drvctrl 0 2.7% 15% 14.7M 20.0M 19 500 -- -- - good  
8/0 hatsystem 0 0.4% 10% 10.2M 15.0M 13 500 -- -- - good  
8/0 hatcpu 80 0.1% 10% 10.1M 15.0M 12 500 -- -- - good
```

7. Sélectionnez la commande de **table de show cpu**. La sortie de la commande n'affiche aucune informations sur la carte défaillante. Ces informations font partie du disque transistorisé.

```
***** show cpu table *****
-----Load-----CPU-Usage-----Memory-----
cpu state now 5min 15min now 5min 15min now 5min 15min total
-----
1/0 Active 0.02 0.02 0.05 0.6% 0.5% 0.5% 842M 842M 842M 16.0G
1/1 Active 2.39 2.48 2.59 11.7% 7.9% 7.9% 138M 137M 137M 512M
2/0 Active 0.02 0.07 0.11 0.5% 0.5% 0.5% 887M 885M 885M 16.0G
2/1 Active 2.83 2.78 2.66 10.4% 7.9% 8.0% 138M 137M 137M 512M
3/0 Active 0.02 0.06 0.11 0.4% 0.4% 0.4% 824M 823M 823M 16.0G
3/1 Active 3.71 2.96 2.80 13.4% 8.0% 7.8% 139M 137M 137M 512M
4/0 Active 0.03 0.10 0.13 0.5% 0.5% 0.5% 845M 845M 845M 16.0G
4/1 Active 2.34 2.55 2.61 11.8% 7.7% 7.7% 138M 137M 137M 512M
5/0 Active 0.14 0.11 0.13 0.6% 0.5% 0.5% 887M 886M 885M 16.0G
5/1 Active 2.49 2.84 2.75 12.7% 8.4% 7.9% 138M 137M 137M 512M
6/0 Active 0.18 0.16 0.14 0.5% 0.4% 0.4% 824M 823M 822M 16.0G
6/1 Active 2.85 2.78 2.74 12.5% 8.0% 8.0% 138M 137M 137M 512M
<<<<<<<< 7/1 missing due to card 7 not running >>>>>>>>>
8/0 Active 0.20 0.09 0.12 18.9% 6.4% 5.2% 1045M 1011M 1009M 4096M
9/0 Sndby 0.02 0.03 0.08 2.0% 0.7% 0.7% 605M 604M 604M 4096M
```

8. Entrez dans la **table de carte d'exposition toute la commande**. La sortie de la commande indique que la carte est hors ligne. Ces informations font partie du disque transistorisé.

```
***** show card table all *****
Slot Card Type Oper State SPOF Attach
-----
1: PSC Packet Services Card Active Yes 17 -
2: PSC Packet Services Card A Active Yes 18 -
3: PSC Packet Services Card A Active Yes 19 -
4: PSC Packet Services Card A Active Yes 20 -
5: PSC Packet Services Card A Active Yes 21 -
6: PSC Packet Services Card A Active Yes 22 -
7: PSC Packet Services Card Offline - - -
8: SMC System Management Card Active No 24 25
9: SMC System Management Card Standby Yes - -
10: PSC None - - -
11: PSC None - - -
12: PSC None - - -
13: PSC None - - -
14: PSC None - - -
15: PSC None - - -
16: PSC None - - -
17: LC 10 Gig Ethernet Line Card Active Yes 1
18: LC 10 Gig Ethernet Line Card Active Yes 2
19: LC 10 Gig Ethernet Line Card Active Yes 3
20: LC 10 Gig Ethernet Line Card Active Yes 4
21: LC 1000 Ethernet Line Card Standby - 5
22: LC 1000 Ethernet Line Card Standby - 6
23: LC None - - -
24: SPIO Switch Processor I/O Card Active No 8
25: SPIO Switch Processor I/O Card Standby - 8
26: LC None - - -
27: LC None - - -
28: LC None - - -
29: LC None - - -
30: LC None - - -
31: LC None - - -
32: LC None - - -
33: LC None - - -
34: LC None - - -
35: LC None - - -
36: LC None - - -
```

```

37: LC None - - -
38: LC None - - -
39: LC None - - -
40: RCC Redundancy Crossbar Card Standby -
41: RCC Redundancy Crossbar Card Standby -
42: LC None - - -
43: LC None - - -
44: LC None - - -
45: LC None - - -
46: LC None - - -
47: LC None - - -
48: LC None

```

9. Sélectionnez la commande de **version de matériel d'exposition**. La sortie de la commande n'affiche « aucune donnée disponible » car la carte est hors ligne. Ces informations font partie du disque transistorisé.

```

***** show hardware version *****
Slot Type SSCB PSR PSR2 BIOS A BIOS B DT DT2
-----
1: PSC 1.6 2 - 9.2.13 7.8.14 3.16 --
2: PSCA 1.6 - 0 1.1.10 1.0.14 -- 3.20
3: PSCA 1.6 - 0 1.1.10 1.0.14 -- 3.20
4: PSCA 1.6 - 0 1.1.10 1.0.20 -- 3.20
5: PSCA 1.6 - 0 1.1.10 1.0.14 -- 3.20
6: PSCA 1.6 - 0 1.1.10 1.0.14 -- 3.20
7: PSC (no data available)
10: None -- - - - - - -
11: None -- - - - - - -
12: None -- - - - - - -
13: None -- - - - - - -
14: None -- - - - - - -
15: None -- - - - - - -
16: None -- - - - - - -

```

10. Sélectionnez la commande d'**événements de npuctrl d'exposition**. La sortie de la commande affiche l'état des cartes défaillantes en tant qu'off-line, amorçant (si dans la boucle), et ainsi de suite. Ces informations font partie du disque transistorisé.

```

***** show npuctrl events *****
[41]@01-28-2014 08:26:15.892 e/i=0/0 evt=exporter-done transition=await-exporter->normal
spc=no
inst| npumgr-sta| card-state| card-inser inst|npumgr-sta| card-state| card-inser
1| normal| standby| yes 2| normal| standby| yes
3| normal| standby| yes 4| normal| standby| yes
5| export-db| standby| yes 6| import-db| initializi| yes
7| absent| booting| no 8| normal| active| no
9| normal| standby| yes 10| absent| empty| no
11| absent| empty| no 12| absent| empty| no
13| absent| empty| no 14| absent| empty| no
15| absent| empty| no 16| absent| empty| no

[42]@01-28-2014 08:54:08.041 e/i=6/1 evt=start-recovery transition=normal->await-importer-
ack spc=no
inst| npumgr-sta| card-state| card-inser inst|npumgr-sta| card-state| card-inser
1| power-up| initializi| no 2| normal| active| yes
3| normal| active| yes 4| normal| active| yes
5| normal| active| yes 6| normal| active| yes
7| absent| offline| no 8| normal| active| no
9| normal| standby| yes 10| absent| empty| no
11| absent| empty| no 12| absent| empty| no
13| absent| empty| no 14| absent| empty| no
15| absent| empty| no 16| absent| empty| no

```

11. Sélectionnez la commande de la **température d'exposition**. La sortie de la commande affiche la température de quelques composants seulement de la carte défaillante. Ces informations

## font partie du disque transistorisé.

```
***** show temperature *****
```

Note:

Cards 6 and 7 are identical PSC cards but more components of good card are shown than that of failed card.

```
Card 6: 29/101 C (LM94 )
58/115 C (NPU )
43/101 C (NPU PCB )
44/101 C (DT )
30/101 C (Midplane)
41/101 C (CPU-N1 )
43/110 C (IOH )
30/100 C (DDR-N1C0)
31/100 C (DDR-N1C1)
Card 7: 23/101 C (CPU0 )
25/101 C (CPU1 )
25/101 C (LM93 )
```

12. Sélectionnez la commande de **liste de crash d'exposition**. La sortie de la commande affiche un crash qui s'est produit sur la carte défailante. Recherchez le mot clé « erreur matérielle » dans les détails de crash. Ces informations font partie du disque transistorisé.

```
***** show crash list *****
```

```
== =====
# Time Process Card/CPU/ SW HW_SER_NUM
PID VERSION SMC / Crash Card
== =====
```

```
1 2014-Feb-20+03:26:14 kernel 02/0/NA 14.0(NA) SAD1726000V/SAD17010035
2 2014-Feb-20+09:24:38 kernel 02/0/NA 14.0(NA) SAD1726000V/SAD17010035
```

```
***** CRASH #01 *****
```

```
2.6.38-staros-v3-hw-64 #1 SMP PREEMPT Fri May 24 16:25:55 EDT 2013 1 0
SAD17010035 50083
.0 MMIO=90800000 MSI-X=32..63
<4>[ 4.542816] > Module image device Init
<4>[ 4.546668] --> Found components:
<6>[ 4.821670] Refined TSC clocksource calibration: 2000.071 MHz.
<6>[ 4.827687] Switching to clocksource tsc
<4>[ 4.833859] 0,28,29,30,31,37,38,39,40,63,67,69
<6>[ 4.838984] Starfile Build Number: 50083
----- truncated -----
<7>[ 38.972206] dt_fpga 0000:01:00.0: restoring config space at offset 0x3
(was 0x0, writing 0x8)
<7>[ 38.972214] dt_fpga 0000:01:00.0: restoring config space at offset 0x1
(was 0x100000, writing 0x100547)
<6>[ 38.972269] DT reset complete after 0 retries
<6>[ 42.565842] DT is now online
<4>[ 157.055594] svc: failed to register lockdvl RPC service (errno 97).
<6>[2128512.375560] [Hardware Error]: Machine check events logged
<6>[2193364.461636] [Hardware Error]: Machine check events logged
<0>[2196785.508632] [Hardware Error]: CPU 6: Machine Check Exception: 4
Bank 8: be000000001009f
<0>[2196785.516865] [Hardware Error]: TSC fa3eb2f263a8b ADDR 106fef5c0
MISC 1da0600000046343
<0>[2196785.524998] [Hardware Error]: PROCESSOR 0:206c2 TIME 1392846844
SOCKET 1 APIC 20
<0>[2196785.532533] [Hardware Error]: CPU 19: Machine Check Exception: 4
Bank 8: be000000001009f
<0>[2196785.540840] [Hardware Error]: TSC fa3eb2f2640b7 ADDR 106fef5c0
MISC 1da0600000046343
<0>[2196785.548976] [Hardware Error]: PROCESSOR 0:206c2 TIME 1392846844
```

```

SOCKET 1 APIC 23
----- truncated -----
<0>[2196785.756359] [Hardware Error]: TSC fa3eb2f271a7d ADDR 106fef5c0
MISC 1da0600000046343
<0>[2196785.764488] [Hardware Error]: PROCESSOR 0:206c2 TIME 1392846844
SOCKET 1 APIC 32
<0>[2196785.772020] [Hardware Error]: CPU 18: Machine Check Exception: 4
Bank 8: be000000001009f
<0>[2196785.780335] [Hardware Error]: TSC fa3eb2f263a95 ADDR 106fef5c0
MISC 1da0600000046343
<0>[2196785.788464] [Hardware Error]: PROCESSOR 0:206c2 TIME 1392846844
SOCKET 1 APIC 21
<0>[2196785.795991] [Hardware Error]: Machine check: Processor context
corrupt
<0>[2196785.802660] Kernel panic - not syncing: Fatal machine check on
current CPU
<4>[2196785.809681] Pid: 0, comm: kworker/0:1 Tainted: P M
2.6.38-staros-v3-hw-64 #1
<4>[2196785.817648] Call Trace:
<4>[2196785.820265] <#MC> [<ffffffff8104d444>] ? panic+0xd4/0x210
<4>[2196785.826025] [<ffffffff8104e6ac>] ? printk+0x6c/0x70
<4>[2196785.831148] [<ffffffff810726c4>] ? __atomic_notifier_call_chain+0x54/0x70
<4>[2196785.838162] [<ffffffff810726f6>] ? atomic_notifier_call_chain+0x16/0x20
<4>[2196785.845008] [<ffffffff81016da8>] ? mce_panic+0x208/0x210
<4>[2196785.850564] [<ffffffff810176d4>] ? do_machine_check+0x604/0x890
<4>[2196785.856723] [<ffffffff815a8dbb>] ? machine_check+0x1b/0x20
<4>[2196785.862449] [<ffffffff8129fbaf>] ? intel_idle+0x9f/0x130
<4>[2196785.867993] <<EOE>> [<ffffffff81072e83>] ? pm_qos_request+0x43/0x80
<4>[2196785.874605] [<ffffffff8145e64f>] ? cpuidle_idle_call+0xbf/0x2f0
<4>[2196785.880763] [<ffffffff81001506>] ? cpu_idle+0x56/0xa0
<4>[2196785.886059] [<ffffffff818edcd4>] ? start_secondary+0x1b4/0x230
<4>[2196785.892442] Logging crash to boot flash...

```

13. Sélectionnez la commande de **carte de console de débogage**. La présente partie de disque transistorisé affiche les détails de l'erreur matérielle sur la carte défailante. Ces informations peuvent être trouvées dans le disque transistorisé.

```
***** debug console card 2 cpu 0 tail 4000 only *****
```

```

1392847108.339 card 2-cpu0: <4>[ 162.266071] svc: failed to register lockdvl RPC
service (errno 97).
1392847187.138 card 2-cpu0: <4>[ 241.063929] mce_notify_irq: 1 callbacks suppressed
1392847187.138 card 2-cpu0: <6>[ 241.068719] [Hardware Error]: Machine check events
logged
1392852796.521 card 2-cpu0: <6>[ 5850.625815] [Hardware Error]: Machine check events
logged
1392860403.004 card 2-cpu0: <6>[13457.344535] [Hardware Error]: Machine check events
logged
1392867612.569 card 2-cpu0: <0>[20667.120164] [Hardware Error]: CPU 9: Machine Check
Exception: 4 Bank 8: be000000001009f
1392867612.569 card 2-cpu0: <0>[20667.128234] [Hardware Error]: TSC 25c13cfe4d7c ADDR
1045a9d5c0 MISC 1da0600000041281
1392867612.569 card 2-cpu0: <0>[20667.136123] [Hardware Error]: PROCESSOR 0:206c2
TIME 1392867612 SOCKET 1 APIC 30
1392867612.669 card 2-cpu0: <0>[20667.143504] [Hardware Error]: CPU 18: Machine Check
Exception: 4 Bank 8: be000000001009f
---- truncated ----
1392867612.770 card 2-cpu0: <0>[20667.315270] [Hardware Error]: TSC 25c13d0097e4 ADDR
1045a9d5c0 MISC 1da0600000041281
1392867612.770 card 2-cpu0: <0>[20667.323160] [Hardware Error]: PROCESSOR 0:206c2
TIME 1392867612 SOCKET 1 APIC 24
1392867612.770 card 2-cpu0: <0>[20667.330533] [Hardware Error]: CPU 11: Machine
Check Exception: 4 Bank 8: be000000001009f
1392867612.870 card 2-cpu0: <0>[20667.338688] [Hardware Error]: TSC 25c13d0099f6 ADDR
1045a9d5c0 MISC 1da0600000041281

```

1392867612.870 card 2-cpu0: <0>[20667.346574] [Hardware Error]: PROCESSOR 0:206c2 TIME  
1392867612 SOCKET 1 APIC 34  
1392867612.870 card 2-cpu0: <0>[20667.353947] [Hardware Error]: CPU 23: Machine Check  
Exception: 4 Bank 8: be000000001009f  
1392867612.870 card 2-cpu0: <0>[20667.362100] [Hardware Error]: TSC 25c13d0099ec ADDR  
1045a9d5c0 MISC 1da0600000041281  
1392867612.870 card 2-cpu0: <0>[20667.369992] [Hardware Error]: PROCESSOR 0:206c2 TIME  
1392867612 SOCKET 1 APIC 35  
1392867612.870 card 2-cpu0: <0>[20667.377359] [Hardware Error]: CPU 21: Machine Check  
Exception: 4 Bank 8: be000000001009f  
1392867612.870 card 2-cpu0: <0>[20667.385506] [Hardware Error]: TSC 25c13cfe4d68 ADDR  
1045a9d5c0 MISC 1da0600000041281  
1392867612.870 card 2-cpu0: <0>[20667.393395] [Hardware Error]: PROCESSOR 0:206c2 TIME  
1392867612 SOCKET 1 APIC 31  
1392867612.870 card 2-cpu0: <0>[20667.400765] [Hardware Error]: Machine check:  
Processor context corrupt  
1392867612.870 card 2-cpu0: <0>[20667.407275] Kernel panic - not syncing: Fatal  
machine check on current CPU  
1392867612.870 card 2-cpu0: <4>[20667.414136] Pid: 0, comm: kworker/0:1 Tainted:  
P M 2.6.38-staros-v3-hw-64 #1  
1392867612.870 card 2-cpu0: <4>[20667.421945] Call Trace:  
1392867612.870 card 2-cpu0: <4>[20667.424399] <#MC> [<ffffffff8104d444>]  
? panic+0xd4/0x210  
1392867612.870 card 2-cpu0: <4>[20667.430005] [<ffffffff8104e6ac>]  
? printk+0x6c/0x70  
1392867612.870 card 2-cpu0: <4>[20667.434966] [<ffffffff810726c4>]  
? \_\_atomic\_notifier\_call\_chain+0x54/0x70  
\*1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0: CFE version 2.2.9 (34401) for BOXER\_FROM\_FLASH  
(32bit,SP,LE,X86)  
1392867660.394 card 2-cpu0: Build Date: Wed Jun 30 10:38:21 EDT 2010  
(builds@releng7)  
1392867660.394 card 2-cpu0: Copyright (C) 2001-2010 Starent Networks Corporation.  
1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0: Initializing Arena.  
1392867660.394 card 2-cpu0: Initializing PCI. [normal]  
1392867660.394 card 2-cpu0: Initializing Devices.  
1392867660.394 card 2-cpu0: Ophir 82571 Ethernet controller 0x10608086  
(Serdes) on 2/0/0  
1392867660.394 card 2-cpu0: WARNING: Memory size 49152 MB for cpu0 not  
matching with  
value 65536 MB in IDEEPROM  
1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0: CPU type 0x0: 2000MHz  
1392867660.394 card 2-cpu0: Total memory: 0xC0000000 bytes (49152MB)  
1392867660.394 card 2-cpu0: Total memory used by CFE:  
1392867660.394 card 2-cpu0: realmode: 0x00080000 -  
0x00087140 (28992 bytes)  
1392867660.394 card 2-cpu0: protectedmode: 0x0C800000 -  
0x0CC86A6C (4745836 bytes)  
1392867660.394 card 2-cpu0: Done board\_final\_init...  
1392867660.394 card 2-cpu0: Booting CFE ROM...  
1392867660.394 card 2-cpu0: PID: ASR5K-PSC-64G-K9 , VID: V02, SN: SAD17010035  
1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0: ERROR: Memory size 49152 MB for cpu0 not matching  
with value 65536 MB in IDEEPROM  
1392867660.394 card 2-cpu0:  
1392867660.394 card 2-cpu0: ERROR: Bus 254 CPU 1 Chan 1 DIMM 0 NotPresent  
1392867660.394 card 2-cpu0: Calling managementplane\_init()  
1392867660.394 card 2-cpu0: Calling managementplane\_init() complete  
1392867660.394 card 2-cpu0: Calling InitDPManagementPlaneEthernet()  
1392867660.399 card 2-cpu0: Calling InitDPManagementPlaneEthernet() complete  
1392867660.404 card 2-cpu0: CRITICAL: BIOS Failed to properly Size System

```
Memory aborting boot
1392867660.405 card 2-cpu0:
1392867660.410 card 2-cpu0: 2/0:cli> Boot Failure Detected. Press Ctrl-C for cli
```

14. Écrivez l'exposition DEL toute la commande. Le passage/échouer LED devrait être tout vert et le standby LED devrait être tout vert aussi bien.

```
[local]st40-1# show leds all
Slot 02: Run/Fail: Green | Active: Green | Standby: Off
Slot 04: Run/Fail: Green | Active: Green | Standby: Off
Slot 06: Run/Fail: Green | Active: Green | Standby: Off
Slot 08: Run/Fail: Green | Active: Green | Standby: Off
Status: Green | Service: Amber |
Slot 09: Run/Fail: Green | Active: Off | Standby: Green
Status: Green | Service: Amber |
Slot 11: Run/Fail: Green | Active: Off | Standby: Green
Slot 13: Run/Fail: Green | Active: Green | Standby: Off
Slot 15: Run/Fail: Green | Active: Off | Standby: Green
Slot 18: Run/Fail: Red | Active: Off | Standby: Off <<hardware failure
Slot 22: Run/Fail: Green | Active: Green | Standby: Off
Slot 24: Run/Fail: Green | Active: Green | Standby: Off
Slot 25: Run/Fail: Green | Active: Off | Standby: Green
Slot 27: Run/Fail: Green | Active: Off | Standby: Off
Slot 34: Run/Fail: Green | Active: Off | Standby: Green
Slot 38: Run/Fail: Green | Active: Off | Standby: Green
Slot 40: Run/Fail: Green | Active: Off | Standby: Green
Slot 41: Run/Fail: Green | Active: Off | Standby: Green
```

15. Entrez dans la table de show port toute la commande. La sortie de la commande affiche l'état des linecards et de leurs ports actifs. Ces informations font partie du disque transistorisé. Châssis ASR 5000

```
***** show port table all *****
```

Port	Type	Admin	Oper	Link	State	Redundant
22/1	10/100 Ethernet	Enabled	-	Up	-	38/1
	Untagged	Enabled	Down	-	Active	-
	Tagged VLAN 11	Enabled	Up	-	Active	-
	Tagged VLAN 12	Enabled	Up	-	Active	-
	Tagged VLAN 13	Enabled	Up	-	Active	-
	Tagged VLAN 15	Enabled	Up	-	Active	-
	Tagged VLAN 16	Enabled	Up	-	Active	-
	Tagged VLAN 14	Enabled	Up	-	Active	-
	Tagged VLAN 17	Enabled	Up	-	Active	-
22/2	10/100 Ethernet	Disabled	Down	Up	Standby	38/2
22/3	10/100 Ethernet	Disabled	Down	Down	Standby	38/3
22/4	10/100 Ethernet	Disabled	Down	Down	Standby	38/4
22/5	10/100 Ethernet	Disabled	Down	Down	Standby	38/5
22/6	10/100 Ethernet	Disabled	Down	Down	Standby	38/6
22/7	10/100 Ethernet	Disabled	Down	Down	Standby	38/7
22/8	10/100 Ethernet	Enabled	Down	Down	Active	38/8
24/1	1000 Ethernet Dual Media	Enabled	Up	Up	Active	25/1
24/2	1000 Ethernet Dual Media	Disabled	Down	Down	Active	25/2
24/3	RS232 Serial Console	Enabled	Up	Up	Active	25/3
24/4	BITS T1/E1 Timing	Disabled	Down	Down	Active	25/4
25/1	1000 Ethernet Dual Media	Enabled	Down	Up	Standby	24/1
25/2	1000 Ethernet Dual Media	Disabled	Down	Down	Standby	24/2
25/3	RS232 Serial Console	Enabled	Down	Up	Standby	24/3
25/4	BITS T1/E1 Timing	Disabled	Down	Down	Standby	24/4
34/1	1000 Ethernet	Enabled	Down	Down	Active	None
34/2	1000 Ethernet	Disabled	Down	Down	Active	None
34/3	1000 Ethernet	Disabled	Down	Down	Active	None
34/4	1000 Ethernet	Disabled	Down	Down	Active	None
38/1	10/100 Ethernet	Enabled	-	Down	-	22/1
	Untagged	Enabled	Down	-	Standby	-
	Tagged VLAN 11	Enabled	Down	-	Standby	-

	Tagged VLAN	12	Enabled	Down	-	Standby	-
	Tagged VLAN	13	Enabled	Down	-	Standby	-
	Tagged VLAN	15	Enabled	Down	-	Standby	-
	Tagged VLAN	16	Enabled	Down	-	Standby	-
	Tagged VLAN	14	Enabled	Down	-	Standby	-
	Tagged VLAN	17	Enabled	Down	-	Standby	-
38/2	10/100 Ethernet		Disabled	Down	Down	Active	22/2
38/3	10/100 Ethernet		Disabled	Down	Down	Active	22/3
38/4	10/100 Ethernet		Disabled	Down	Down	Active	22/4
38/5	10/100 Ethernet		Disabled	Down	Down	Active	22/5
38/6	10/100 Ethernet		Disabled	Down	Down	Active	22/6
38/7	10/100 Ethernet		Disabled	Down	Down	Active	22/7
38/8	10/100 Ethernet		Enabled	Down	Down	Standby	22/8

## Chassis ASR 5500

\*\*\*\*\* show port table all \*\*\*\*\*

Port Role Type Admin Oper Link State Pair Redundant

```

-----
5/1 Mgmt 1000 Ethernet Enabled Up Up Active 6/1 L2 Link
5/2 Mgmt 1000 Ethernet Disabled Down Down Active 6/2 L2 Link
5/3 Mgmt RS232 Serial Console Enabled Down Unkn Standby 6/3 L2 Link
5/10 Srvc 10G Ethernet Enabled - Up - 6/10 LA+ 5/10
Untagged Enabled Up - Active - -
Tagged VLAN 101 Enabled Up - Active - -
Tagged VLAN 102 Enabled Up - Active - -
Tagged VLAN 104 Enabled Up - Active - -
Tagged VLAN 105 Enabled Up - Active - -
Tagged VLAN 103 Enabled Up - Active - -
5/11 Srvc 10G Ethernet Enabled Up Up Active 6/11 LA+ 5/10
5/12 Srvc 10G Ethernet Disabled Down Down Active 6/12 L2 Link
5/13 Srvc 10G Ethernet Disabled Down Down Active 6/13 L2 Link
5/14 Srvc 10G Ethernet Disabled Down Down Active 6/14 L2 Link
5/15 Srvc 10G Ethernet Enabled Up Up Active 6/15 LA+ 5/10
5/16 Srvc 10G Ethernet Enabled Up Up Active 6/16 LA+ 5/10
5/17 Srvc 10G Ethernet Disabled Down Down Active 6/17 L2 Link
5/18 Srvc 10G Ethernet Disabled Down Down Active 6/18 L2 Link
5/19 Srvc 10G Ethernet Disabled Down Down Active 6/19 L2 Link
5/20 Srvc 10G Ethernet Enabled Up Up Active 6/20 LA+ 5/10
5/21 Srvc 10G Ethernet Enabled Up Up Active 6/21 LA+ 5/10
5/22 Srvc 10G Ethernet Disabled Down Down Active 6/22 L2 Link
5/23 Srvc 10G Ethernet Disabled Down Down Active 6/23 L2 Link
5/24 Srvc 10G Ethernet Disabled Down Down Active 6/24 L2 Link
5/25 Srvc 10G Ethernet Enabled Up Up Active 6/25 LA+ 5/10
5/26 Srvc 10G Ethernet Enabled Up Up Active 6/26 LA+ 5/10
5/27 Srvc 10G Ethernet Disabled Down Down Active 6/27 L2 Link
5/28 Srvc 10G Ethernet Disabled Down Down Active 6/28 L2 Link
5/29 Srvc 10G Ethernet Disabled Down Down Active 6/29 L2 Link
6/1 Mgmt 1000 Ethernet Enabled Down Up Standby 5/1 L2 Link
6/2 Mgmt 1000 Ethernet Disabled Down Down Standby 5/2 L2 Link
6/3 Mgmt RS232 Serial Console Enabled Down Unkn Standby 5/3 L2 Link
6/10 Srvc 10G Ethernet Enabled - Up - 5/10 LA! 5/10
Untagged Enabled Up - Active - -
Tagged VLAN 101 Enabled Up - Active - -
Tagged VLAN 102 Enabled Up - Active - -
Tagged VLAN 104 Enabled Up - Active - -
Tagged VLAN 105 Enabled Up - Active - -
Tagged VLAN 103 Enabled Up - Active - -
6/11 Srvc 10G Ethernet Enabled Up Up Active 5/11 LA! 5/10
6/12 Srvc 10G Ethernet Disabled Down Down Standby 5/12 L2 Link
6/13 Srvc 10G Ethernet Disabled Down Down Standby 5/13 L2 Link
6/14 Srvc 10G Ethernet Disabled Down Down Standby 5/14 L2 Link
6/15 Srvc 10G Ethernet Enabled Up Up Active 5/15 LA! 5/10
6/16 Srvc 10G Ethernet Enabled Up Up Active 5/16 LA! 5/10
6/17 Srvc 10G Ethernet Disabled Down Down Standby 5/17 L2 Link

```

```

6/18 Srvc 10G Ethernet Disabled Down Down Standby 5/18 L2 Link
6/19 Srvc 10G Ethernet Disabled Down Down Standby 5/19 L2 Link
6/20 Srvc 10G Ethernet Enabled Up Up Active 5/20 LA! 5/10
6/21 Srvc 10G Ethernet Enabled Up Up Active 5/21 LA! 5/10
6/22 Srvc 10G Ethernet Disabled Down Down Standby 5/22 L2 Link
6/23 Srvc 10G Ethernet Disabled Down Down Standby 5/23 L2 Link
6/24 Srvc 10G Ethernet Disabled Down Down Standby 5/24 L2 Link
6/25 Srvc 10G Ethernet Enabled Up Up Active 5/25 LA! 5/10
6/26 Srvc 10G Ethernet Enabled Up Up Active 5/26 LA! 5/10
6/27 Srvc 10G Ethernet Disabled Down Down Standby 5/27 L2 Link
6/28 Srvc 10G Ethernet Disabled Down Down Standby 5/28 L2 Link
6/29 Srvc 10G Ethernet Disabled Down Down Standby 5/29 L2 Link

```

16. Sélectionnez la commande des **compteurs de liaison de données de show port** [`<slot#>/<port#>`]. La sortie de la commande affiche les statistiques d'un port. Les informations pourraient varier la personne à charge sur le type de port. Notez que les statistiques affichées ici pourraient seulement fournir les informations partielles. Vous devez faire des recherches plus approfondies avant que vous fassiez une conclusion sur le port suspect. Ces informations ne sont pas une partie du disque transistorisé.

Counters for port 5/15:

Line Card 10 Gigabit Ethernet Port

Rx Counter Data | Tx Counter Data

----- + -----

RX Bytes 929593433281710 | TX Bytes 980010533492940

RX Unicast frames 2622395473 | TX Unicast frames 1156468032

RX Multicast frames 6819022 | TX Multicast frames 6883788

RX Broadcast frames 0 | TX Broadcast frames 0

RX Size 64 frames 1072853571 | TX Size 64 frames 2180897214

RX Size 65 .. 127 fr 4229387075 | TX Size 65 .. 127 fr 3889237141

RX Size 128 .. 255 fr 2650809484 | TX Size 128 .. 255 fr 711064618

RX Size 256 .. 511 fr 1361009593 | TX Size 256 .. 511 fr 2349224327

RX Size 512 .. 1023 fr 3559787799 | TX Size 512 .. 1023 fr 1444113684

RX Size 1024 .. 1518 fr 448089039 | TX Size 1024 .. 1518 fr 474195217

RX Size 1519 .. 1522 fr 2185019476 | TX Size 1519 .. 1522 fr 2999521504

RX OverSize frames 0 | TX OverSize frames 0

RX UnderSize frames 0 | TX UnderSize frames 0

RX ExceedMaxSize frames 0

RX Fragment frames 69829 | TX Fragment frames 0

RX Jabber frames 7090511 | TX Jabber frames 0

RX Control frames 0 | TX Control frames 882

RX Pause frames 0 | TX Pause frames 882

RX FCS Error frames 828050684 | TX FCS Error frames 0

RX Length Error frames 0 | TX Length Error frames 0

RX Code Error frames 38410621

RX ExMaxSize Err frames 1362770

----- + -----

[local]ASR5K-1# **show port datalink counters 17/1**

Counters for port 17/1:

Line Card 10 Gigabit Ethernet Port

Rx Counter Data | Tx Counter Data

----- + -----

RX Unicast frames 19873 | TX Unicast frames 0

RX Multicast frames 19873 | TX Multicast frames 0

RX Broadcast frames 0 | TX Broadcast frames 0

RX Size 64 frames 0 | TX Size 64 frames 0

RX Size 65 .. 127 fr 0 | TX Size 65 .. 127 fr 0

RX Size 128 .. 255 fr 0 | TX Size 128 .. 255 fr 0

RX Size 256 .. 511 fr 19873 | TX Size 256 .. 511 fr 0

RX Size 512 .. 1023 fr 0 | TX Size 512 .. 1023 fr 0

RX Size 1024 .. 1518 fr 0 | TX Size 1024 .. 1518 fr 0

RX Size > 1518 frames 0 | TX Size > 1518 frames 0

RX Bytes OK 8326787 | TX Bytes OK 0

RX Bytes BAD 0 | TX Bytes BAD 0

RX SHORT OK 0 | TX PAUSE 0

RX SHORT CRC 0 | TX ERR 0

RX OVF 0 |

RX NORM CRC 0 |

RX LONG OK 0 |

RX LONG CRC 0 |

RX PAUSE 0 |

RX FALS CRS 0 |

```
RX SYM ERR 0 |
RX SPI FRAME COUNT 19873 | TX SPI FRAME COUNT 0
RX SPI LEN ERR 0 | TX SPI LEN ERR 0
RX SPI DIP 2 ERR 0 | TX SPI DIP 4 ERR 0
RX SPI STATUS OOF ERR 0 | TX SPI DATA OOF ERR 0
RX FIFO OVERFLOW 0 | TX FIFO FULL DROP 0
RX PAUSE COUNT 0 | TX DIP 4 PACKET DROP 0
SPI EOP/ABORT 0 |
RX FRAGMENTS COUNT 0 |
RX MAC ERR 0 |
RX JABBER COUNT 0 |
```

----- + -----

```
[local]st40-1# show port datalink counters 22/2
```

```
Counters for port 22/2:
```

```
Line Card Fast Ethernet Port
```

```
Rx Counter Data | Tx Counter Data
```

----- + -----

```
RX Unicast frames 13773 | TX Unicast frames 0
RX Multicast frames 126510 | TX Multicast frames 0
RX Broadcast frames 54954 | TX Broadcast frames 0
RX Size 64 frames 109874 | TX Size 64 frames 0
RX Size 65 .. 127 fr 81230 | TX Size 65 .. 127 fr 0
RX Size 128 .. 255 fr 2384 | TX Size 128 .. 255 fr 0
RX Size 256 .. 511 fr 1670 | TX Size 256 .. 511 fr 0
RX Size 512 .. 1023 fr 79 | TX Size 512 .. 1023 fr 0
RX Size 1024 .. 1518 fr 0 | TX Size 1024 .. 1518 fr 0
RX Size > 1518 frames 0 | TX Size > 1518 frames 0
RX Bytes OK 13824764 | TX Bytes OK 0
RX Bytes BAD 0 | TX Bytes BAD 0
RX OVF 0 | TX DEFER 0
```

```
RX SHORT OK 0 | TX COL 0
RX SHORT CRC 0 | TX SCOL 0
RX NO SFD 0 | TX MCOL 0
RX NORM CRC 0 | TX XCOL 0
RX NORM ALI 0 | TX LCOL 0
RX LONG OK 0 | TX PAUSE 0
RX LONG CRC 0 | TX ERR 0
RX PAUSE 0 |
RX FALS CRS 0 |
RX SYM ERR 0 |
```

----- + -----

```
[local]st40-1# show port datalink counters 24/1
```

```
Counters for port 24/1:
```

```
SPIO 10/100/1000 Ethernet port
```

```
Rx Counter Data | Tx Counter Data
```

----- + -----

```
RX Bytes 148501169 | TX Bytes 138116037
RX BAD frames 0 | TX BAD frames 0
RX Runt frames 0 | TX Runt frames 0
RX Oversize frames 0 | TX Oversize frames 0
RX Good frames 1590640 | TX Good frames 1258465
RX Multicast frames 4393 | TX Collisions 0
RX Broadcast frames 365063 | TX Excessive collis 0
RX Code ERROR 0 | TX Late Collisions 0
RX CRC ERROR 0 | TX CRC ERROR 0
RX length ERROR 0 | TX ABORT 0
RX Align ERROR 0 |
```

----- + -----

```
# show port datalink counters 5/15
```

Counters for port 5/15:

Line Card 10 Gigabit Ethernet Port

Rx Counter Data | Tx Counter Data

----- + -----

RX OverSize frames 0 |

RX Bytes OK 1558209913 | TX Bytes OK 840628

RX Bytes BAD 0 | TX Bytes BAD 0

RX SHORT OK 0 | TX PAUSE 0

RX SHORT CRC 0 | TX ERR 0

RX OVF 0 |

RX NORM CRC 0 |

RX LONG OK 0 |

RX LONG CRC 82233 |

RX PAUSE 0 |

RX FALS CRS 0 |

RX SYM ERR 0 |

----- + -----

17. Sélectionnez la commande de **compteurs de npu de show port**. La sortie de la commande affiche les statistiques d'un port. L'exposition de statistiques que le port 31/1 n'envoie pas autant à données qu'il reçoit. Le disque transistorisé fournit les statistiques deux démontées aux heures différentes 15 minutes. Vous pouvez employer les statistiques deux afin de **déterminer le delta**.

Counters for port 5/15:

Line Card 10 Gigabit Ethernet Port

Rx Counter Data | Tx Counter Data

----- + -----

RX Bytes 929593433281710 | TX Bytes 980010533492940

RX Unicast frames 2622395473 | TX Unicast frames 1156468032

RX Multicast frames 6819022 | TX Multicast frames 6883788

RX Broadcast frames 0 | TX Broadcast frames 0

RX Size 64 frames 1072853571 | TX Size 64 frames 2180897214

RX Size 65 .. 127 fr 4229387075 | TX Size 65 .. 127 fr 3889237141

RX Size 128 .. 255 fr 2650809484 | TX Size 128 .. 255 fr 711064618

RX Size 256 .. 511 fr 1361009593 | TX Size 256 .. 511 fr 2349224327

```
RX Size 512 .. 1023 fr 3559787799 | TX Size 512 .. 1023 fr 1444113684
RX Size 1024 .. 1518 fr 448089039 | TX Size 1024 .. 1518 fr 474195217
RX Size 1519 .. 1522 fr 2185019476 | TX Size 1519 .. 1522 fr 2999521504
RX OverSize frames 0 | TX OverSize frames 0
RX UnderSize frames 0 | TX UnderSize frames 0
RX ExceedMaxSize frames 0
RX Fragment frames 69829 | TX Fragment frames 0
RX Jabber frames 7090511 | TX Jabber frames 0
RX Control frames 0 | TX Control frames 882
RX Pause frames 0 | TX Pause frames 882
RX FCS Error frames 828050684 | TX FCS Error frames 0
RX Length Error frames 0 | TX Length Error frames 0
RX Code Error frames 38410621
RX ExMaxSize Err frames 1362770
----- + -----
```

```
[local]ASR5K-1# show port datalink counters 17/1
```

```
Counters for port 17/1:
Line Card 10 Gigabit Ethernet Port
Rx Counter Data | Tx Counter Data
----- + -----
RX Unicast frames 19873 | TX Unicast frames 0
RX Multicast frames 19873 | TX Multicast frames 0
RX Broadcast frames 0 | TX Broadcast frames 0
RX Size 64 frames 0 | TX Size 64 frames 0
RX Size 65 .. 127 fr 0 | TX Size 65 .. 127 fr 0
RX Size 128 .. 255 fr 0 | TX Size 128 .. 255 fr 0
RX Size 256 .. 511 fr 19873 | TX Size 256 .. 511 fr 0
RX Size 512 .. 1023 fr 0 | TX Size 512 .. 1023 fr 0
RX Size 1024 .. 1518 fr 0 | TX Size 1024 .. 1518 fr 0
RX Size > 1518 frames 0 | TX Size > 1518 frames 0
```

```
RX Bytes OK 8326787 | TX Bytes OK 0
RX Bytes BAD 0 | TX Bytes BAD 0
RX SHORT OK 0 | TX PAUSE 0
RX SHORT CRC 0 | TX ERR 0
RX OVF 0 |
RX NORM CRC 0 |
RX LONG OK 0 |
RX LONG CRC 0 |
RX PAUSE 0 |
RX FALS CRS 0 |
RX SYM ERR 0 |
RX SPI FRAME COUNT 19873 | TX SPI FRAME COUNT 0
RX SPI LEN ERR 0 | TX SPI LEN ERR 0
RX SPI DIP 2 ERR 0 | TX SPI DIP 4 ERR 0
RX SPI STATUS OOF ERR 0 | TX SPI DATA OOF ERR 0
RX FIFO OVERFLOW 0 | TX FIFO FULL DROP 0
RX PAUSE COUNT 0 | TX DIP 4 PACKET DROP 0
SPI EOP/ABORT 0 |
RX FRAGMENTS COUNT 0 |
RX MAC ERR 0 |
RX JABBER COUNT 0 |
```

----- + -----

```
[local]st40-1# show port datalink counters 22/2
```

```
Counters for port 22/2:
```

```
Line Card Fast Ethernet Port
```

```
Rx Counter Data | Tx Counter Data
```

----- + -----

```
RX Unicast frames 13773 | TX Unicast frames 0
RX Multicast frames 126510 | TX Multicast frames 0
RX Broadcast frames 54954 | TX Broadcast frames 0
```

```
RX Size 64 frames 109874 | TX Size 64 frames 0
RX Size 65 .. 127 fr 81230 | TX Size 65 .. 127 fr 0
RX Size 128 .. 255 fr 2384 | TX Size 128 .. 255 fr 0
RX Size 256 .. 511 fr 1670 | TX Size 256 .. 511 fr 0
RX Size 512 .. 1023 fr 79 | TX Size 512 .. 1023 fr 0
RX Size 1024 .. 1518 fr 0 | TX Size 1024 .. 1518 fr 0
RX Size > 1518 frames 0 | TX Size > 1518 frames 0
RX Bytes OK 13824764 | TX Bytes OK 0
RX Bytes BAD 0 | TX Bytes BAD 0
RX OVF 0 | TX DEFER 0
RX SHORT OK 0 | TX COL 0
RX SHORT CRC 0 | TX SCOL 0
RX NO SFD 0 | TX MCOL 0
RX NORM CRC 0 | TX XCOL 0
RX NORM ALI 0 | TX LCOL 0
RX LONG OK 0 | TX PAUSE 0
RX LONG CRC 0 | TX ERR 0
RX PAUSE 0 |
RX FALS CRS 0 |
RX SYM ERR 0 |
----- + -----
```

```
[local]st40-1# show port datalink counters 24/1
```

```
Counters for port 24/1:
```

```
SPIO 10/100/1000 Ethernet port
```

```
Rx Counter Data | Tx Counter Data
```

```
----- + -----
```

```
RX Bytes 148501169 | TX Bytes 138116037
```

```
RX BAD frames 0 | TX BAD frames 0
```

```
RX Runt frames 0 | TX Runt frames 0
```

```
RX Oversize frames 0 | TX Oversize frames 0
```

RX Good frames 1590640 | TX Good frames 1258465

RX Multicast frames 4393 | TX Collisions 0

RX Broadcast frames 365063 | TX Excessive collis 0

RX Code ERROR 0 | TX Late Collisions 0

RX CRC ERROR 0 | TX CRC ERROR 0

RX length ERROR 0 | TX ABORT 0

RX Align ERROR 0 |

----- + -----

**# show port datalink counters 5/15**

Counters for port 5/15:

Line Card 10 Gigabit Ethernet Port

Rx Counter Data | Tx Counter Data

----- + -----

RX OverSize frames 0 |

RX Bytes OK 1558209913 | TX Bytes OK 840628

RX Bytes BAD 0 | TX Bytes BAD 0

RX SHORT OK 0 | TX PAUSE 0

RX SHORT CRC 0 | TX ERR 0

RX OVF 0 |

RX NORM CRC 0 |

RX LONG OK 0 |

RX LONG CRC 82233 |

RX PAUSE 0 |

RX FALS CRS 0 |

RX SYM ERR 0 |

----- + -----