

Table of Contents

Monitoring the active L1 Board with a python script "showMac.py".....	1
Usage.....	1

Monitoring the active L1 Board with a python script "showMac.py"

The script showMac.py is to discover all the active L1 Read-out Boards, which are connected to the aggregation switches (sw-agg-01 and sw-agg-02) and sending data through the DAQ switch (sw-daq-02), and list their mac-addresses .

And the traffics are also monitored as well.

NB. It supports aggregation switch and daq switch only

The scripts locate in the directory /group/online/showMac/

Usage

There are several steps to use this script

step 1. run the script, then select aggregation switch (sw-agg-01 ,sw-agg-02, sw-d2e01-d1, sw-d3b07-d1) or main switch sw-daq-01

```
[gliu@gw01 ~]$ /group/online/showMac/showMac.py
```

```
Active L1 Boards Monitoring

Step1: select the switches
1:   Aggregation switches
2:   Force 10 router
-----
0:   Quit
Enter your selcection(1 by default):1
```

step 2. select which sub-system or switch you want to monitoring

```
Active L1 Boards Monitoring

Step2: select the sub-system
1:   RICH2
2:   HCAL
3:   ECAL
4:   TMU
5:   TFC
6:   TCA
7:   TRG
8:   PRS
9:   MUON
A:   TT
B:   VELO
C:   OT
D:   IT
E:   RICH1
F:   TPU
G:   DUMMY
-----
H:   SW-AGG-01
I:   SW-AGG-02
J:   SW-D2E01-D1
K:   SW-D3B07-D1
L:   ALL SYSTEM
-----
0:   Last Step
```

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Enter your selcection(multi-selection is allowed):5

step 3. select the method to list the data, in the order of MAC or switch port

```
Active L1 Boards Monitoring

Step4: select the display in the order of :
1:   L1 board IP address
2:   Switch port
-----
0:   Last Step
Enter your selcection(1 by default):1
```

Then you will see something in the stdout,

```
sw-d3b07-d1
Mac Address          Port   L1 Board          InBytes InUcastPkt  InDiscard   InError   OutByte O
00:CC:BB:05:01:00    19    tfcodin01-d1      0        0           0           0           0
00:CC:BB:05:02:00    17    tfcodin02-d1      0        0           0           0           0
00:CC:BB:05:03:00    15    tfcodin03-d1      0        0           0           0           0
00:CC:BB:05:04:00    13    tfcodin04-d1      0        0           0           0           0
00:CC:BB:05:05:00    11    tfcodin05-d1      0        0           0           0           0
00:CC:BB:05:06:00     9    tfcodin06-d1      0        0           0           0           176
00:CC:BB:05:07:00     7    tfcodin07-d1      0        0           0           0           0
00:CC:BB:05:08:00     5    tfcodin08-d1      0        0           0           0           0
00:CC:BB:05:09:00     3    tfcodin09-d1      0        0           0           0           0
00:CC:BB:05:0A:00     1    tfcodin10-d1      0        0           0           0           0
00:CC:BB:05:0B:00    21    tfcodin11-d1      0        0           0           0           0
00:CC:BB:05:0C:00    23    tfcodin12-d1      0        0           0           0           0
00:CC:BB:05:0D:00    25    tfcodin13-d1    565326592  0           0           0           0
00:CC:BB:05:0E:00    27    tfcodin14-d1      0        0           0           0           0
00:CC:BB:05:0F:00    29    tfcodin15-d1      0        0           0           0           0
00:CC:BB:05:10:00    31    tfcodin16-d1      0        0           0           0           0
```

```
-----
Switch Total Inbound Unicat Pkts:  0
Outbound Unicast Pkts:  0
Unicast Packets Forwarding Rate:  No Inbound Packets!
```

Press any key to quit ...

You can press any key to quit the script.

-- GuomingLiu - 27 Feb 2008

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