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# fastdpi\_stat.log

The file is placed in the directory: `/var/log/dpi/fastdpi_stat.log`

This log contains statistics on traffic processed and blocked by VAS Experts DPI, on memory and processor load (file **stat.log**).

```
1 [STAT ] [2019/11/14-03:20:03:143845] Memory usage : 'Virtual'/'Resident' 8877088768/4023791616
2 [STAT ] [2019/11/14-03:20:03:143883] CPU statistics :
3   cpu_total : 0.1%us 8.2%sy 1.5%ni 90.2%id 0.0%wa
4   cpu0 : 0.0%us 0.7%sy 1.3%ni 98.0%id 0.0%wa
5   cpu1 : 0.1%us 16.8%sy 1.7%ni 81.4%id 0.0%wa
6   cpu2 : 0.0%us 7.5%sy 0.9%ni 91.6%id 0.0%wa
7   cpu3 : 0.1%us 7.4%sy 2.3%ni 90.3%id 0.0%wa
8 [STAT ] [2019/11/14-03:20:03:144193] Interface statistics :
9   Cluster #1 Absolute Stats Rcvd: [6830575 pkts][4908344518 bytes][0+0=0 pkts dropped]
10   Cluster #1 : IF dna0:
11     Absolute Stats Rcvd: [2372621 pkts][381635326 bytes][0 pkts dropped]
12     Send: [4457954 pkts][4526709192 bytes]
13     Esnd: [0 err_pkts][0.00 %]
14     Drop: [0 pkts][0 bytes]
15     Pthr: [0 pkts][0 bytes]
16     Emit: [0 pkts][0 bytes]
17     Eemt: [0 err_pkts][0.00 %]
18   Actual Stats Rcvd: [0 bytes][0.00 Mbit/sec]
19     [0 pkts ][0.00 pkt/sec]
20     Send: [1848 bytes][0.00 Mbit/sec]
21     [22 pkts ][1.47 pkt/sec]
22     Esnd: [0 err_pkts][0.00 %]
23     Drop: [0 bytes][0.00 %]
24     [0 pkts ][0.00 %]
25     Pthr: [0 bytes][0.00 %]
26     [0 pkts ][0.00 %]
27     Emit: [0 bytes][0.00 Mbit/sec]
28     [0 pkts ][0.00 pkt/sec]
29     Eemt: [0 err_pkts][0.00 %]
30   Cluster #1 : IF dnal:
31     Absolute Stats Rcvd: [4457954 pkts][4526709192 bytes][0 pkts dropped]
32     Send: [2372621 pkts][381635326 bytes]
```

Annotations in the image:

- 1: Points to the date and time of data accessing.
- 2: Points to the memory type ('Virtual'/'Resident').
- 3: Points to the information volume (8877088768/4023791616).
- 4: Points to the general CPU load (cpu\_total).
- 5: Points to the CPU load by cores (cpu0, cpu1, cpu2, cpu3).
- 6: Points to the full statistics on received packets/bytes, blocked packets on all interfaces.
- 7: Points to the full statistics on received packets/bytes, blocked packets on the dna0 interface.
- 8: Points to the full statistics on received packets/bytes, blocked packets on the dnal interface.

Image 1

Information is presented as follows (see Image 1, Image 2):

- Memory used:
  - 1 – date and time of data accessing,
  - 2 – memory type,
  - 3 – information volume.
- CPU load:
  - 4 – general load,
  - 5 – load by cores.
- Statistics on VAS Experts DPI interfaces:
  - 6 – full statistics on received packets/bytes, blocked packets on all interfaces,
  - 7 – full statistics on received packets/bytes, blocked packets on the dna0 interface, here:
    - Rcvd: [2372621 pkts][381635326 bytes][0 pkts dropped] – received packets/bytes
    - Send: [4457954 pkts][4526709192 bytes] – transmitted packets/bytes
    - Esnd: [0 err\_pkts][0.00 %] – errors occurred while sending packets
    - Drop: [0 pkts][0 bytes] – blocked packets/bytes
    - Pthr: [0 pkts][0 bytes] – the number of packets/bytes passing without analysis and processing

- Emit: [0 pkts][0 bytes] - packets formed by VAS Experts DPI
- Eemt: [0 err\_pkts][0.00 %] - errors that occurred when sending packets generated by VAS Experts DPI

**8** - actual statistics on received packets/bytes, blocked packets on dna0 interface,

**9** - full statistics on the number of captured, processed, sent packets/sec (see Image 2), e.g. [Captured 1.47 pkt/sec][Processed 1.47 pkt/sec][Send 0.00 pkt/sec].

IPv4\_thread\_slave=#1 or 0 - flow statistics (0 or 1) - flow number.

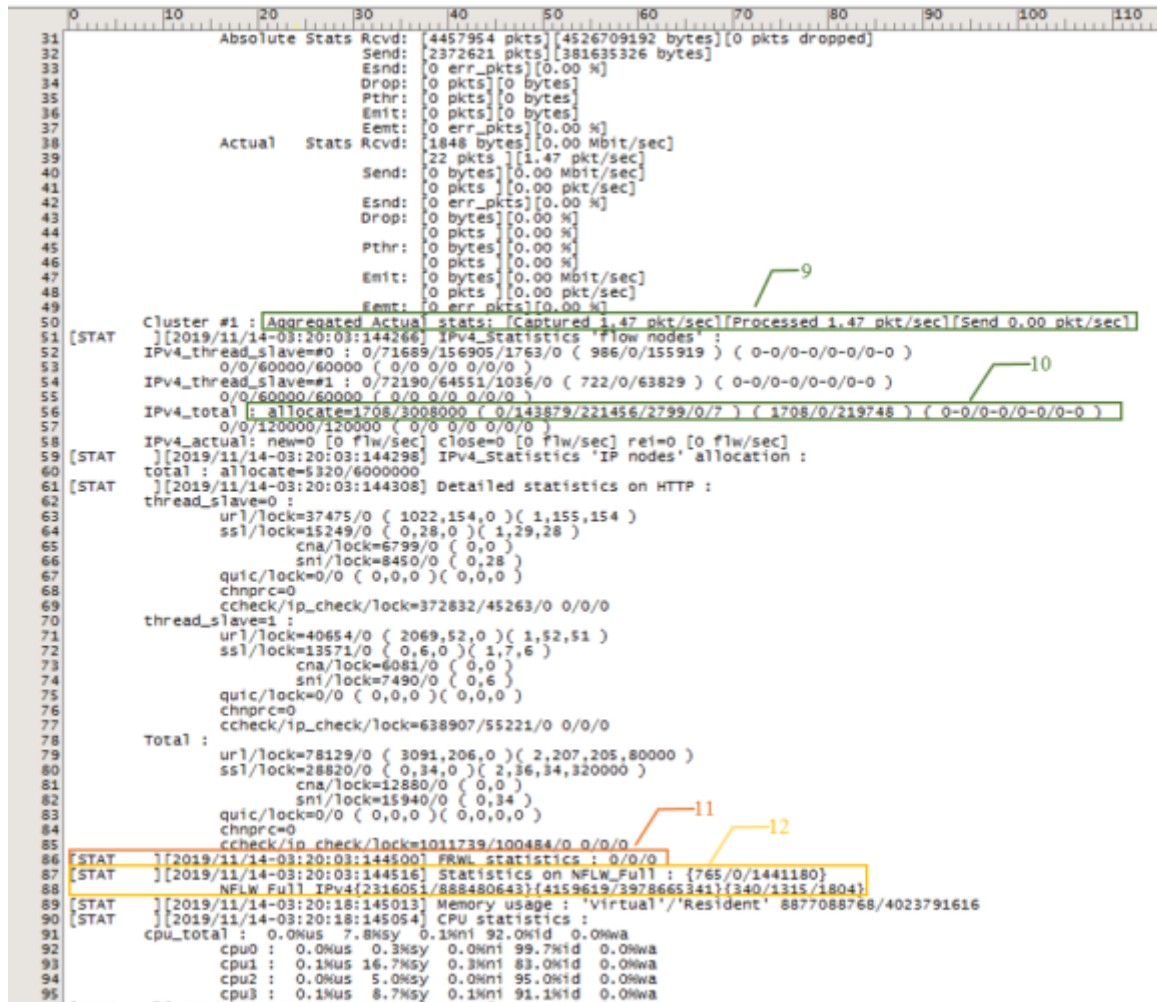


Image 2

- Protocol statistics:
  - Statistics by IP:
    - 10** - current flows number, here
    - IPv4\_total : allocate=1708/3008000 - parameter is set in `/etc/dpi/fastdpi.conf`:  
mem\_tracking\_flow (e.g.=3008000)  
3008000 - total / 1708 - taken
  - Blocking counters:
    - url/lock=341/5 ( 0,0 ) ( 1,1,0,98879 )
    - ssl/lock=47/0 ( 21,457 ) ( 0,69,69,196647 )
    - chnprc=0
    - ccheck/ip\_check/lock=2954/503/76
    - url/lock - URL checked/blocked
  - ( 0,0 ) :

first 0 - number of URLs that could not be parsed  
 second 0 - number of packets with partial URLs (URL in several packets)  
 ( 1,1,0,98879 ) :  
 1 - parsers used  
 1 - parsers were used in total  
 0 - how many parsers are not involved after use  
 98879 -

how many parsers can be created

- ssl/lock - similarly to URL, but for cname  
 chnprc=0 - parser change http ↔ https  
 ccheck/ip\_check/lock - 2954/503/76 statistics on check by IP/port
- 2954 - were to check by IP  
 503 - how many times the check was actually performed  
 76 - packets blocked
- Firewall statistics - **11**.
- Netflow statistics - **12**,

In version 9.4.1 statistics on packet sizes have been expanded, Jumbo Frames have been added  
 [STAT ][2020/09/09-13:44:33:322801] Packet size (abs/delta, in %):

		<=64	<=128	<=256	<=512	<=1024
<=2048	<=4096	<=8192	>8192			
subs->inet:		0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0
0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0			
inet->subs:		0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0
0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0			