

## dummynet & IP fragmentation bug

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2003-11/0214.html>

---

**From:** Alexander Motin (*mav\_at\_alkar.net*)

**Date:** 11/20/03

Date: Thu, 20 Nov 2003 14:39:38 +0200

To: freebsd-net@freebsd.org

Hello.

I have one strange problem with dummynet & IP fragmentation.

I have FreeBSD 4.8-RELEASE router with few interfaces:

```
em0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=3<rxcsup,txcsup>
    inet 195.248.191.172 netmask 0xfffffc0 broadcast 195.248.191.191
    ether 00:30:48:20:8e:7e
    media: Ethernet autoselect (1000baseTX <full-duplex>)
    status: active
ng4: flags=88d1<UP,POINTOPOINT,RUNNING,NOARP,SIMPLEX,MULTICAST> mtu 1492
    inet 195.248.191.172 ---> 212.86.231.58 netmask 0xffffffff
```

Interface ng4 have MTU 1492 because it is PPPoE link.

When I do not use dummynet on router and somebody send a big (>1492bytes) packet to 212.86.231.58 with DontFragment flag set router generates ICMP reply message (Fragmentation Needed). This is correct.

But when I use dummynet on that interface:

```
10170 pipe 10009 ip from any to any out xmit ng4
10175 allow ip from any to any via ng4
```

```
10009: 128.000 Kbit/s 0 ms 50 sl. 1 queues (1 buckets) droptail
    mask: 0x00 0x00000000/0x0000 -> 0x00000000/0x0000
BKT Prot __Source IP/port__ __Dest. IP/port__ Tot_pkt/bytes
Pkt/Byte Drp
 0 udp 195.248.191.65/53 212.86.231.58/1118 50965 28380582 0
 0 143
```

router stops sending that ICMP messages. Pipe is not overflowed at that time, it is empty.

--

Alexander Motin

---

freebsd-net@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-net>

To unsubscribe, send any mail to "freebsd-net-unsubscribe@freebsd.org"