

ANS Performance Report

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1. ANS Routing Forwarding Performance

1.1. Testing Environment

➤ CPU

Intel(R) Xeon(R) CPU E5-2683 v3 @ 2.00GHz

➤ NIC

02:00.0 Ethernet controller: Intel Corporation 82599ES 10-Gigabit SFI/SFP+ Network Connection (rev 01)

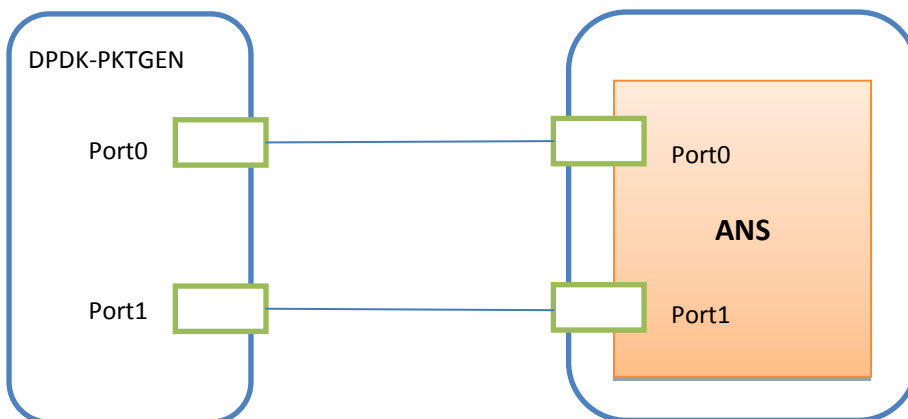
02:00.1 Ethernet controller: Intel Corporation 82599ES 10-Gigabit SFI/SFP+ Network Connection (rev 01)

➤ Version

dpdk-17.05.2.tar.xz

Pktgen Ver: 3.4.2 (DPDK 17.05.2)

➤ Network Topology



1.2. Testing Report

1.2.1. ANS (1 core) routing forward one way

Pktgen port 0 -> ans routing forward (1 core)-> pktgen port 1

➤ ANS startup command

```
# ./build/ans -c 0x2 -n 1 --base-virtaddr=0x2aaa2aa0000 -- -p 0x3 --config="(0,0,1), (1,0,1)"
```

➤ Testing result

Packet Size (Bytes)	Throughput (Mpps)
64	8.27
128	Line Rate

```

/ Ports 0-3 of 5 <Main Page> Copyright (c) <2010-2017>, Intel Corporation
Flags:Port      : P-----I---g---:0 P-----I---g---:1
Link State      : <UP-10000-FD> <UP-10000-FD> ----TotalRate----
Pkts/s Max/Rx   : 4646758/0 8281945/8272868 8281945/8272868
Max/Tx          : 14881176/14880873 14880946/0 29761844/14880873
Mbits/s Rx/Tx   : 0/9999 5559/0 5559/9999
Broadcast       : 0 0
Multicast       : 0 0
64 Bytes        : 1719209386 12576441085
65-127          : 0 0
128-255         : 0 0
256-511         : 0 0
512-1023        : 0 0
1024-1518       : 0 0
Runts/Jumbos    : 0/0 0/0
Errors Rx/Tx    : 0/0 0/0
Total Rx Pkts   : 1719209386 12574372177
Tx Pkts         : 29339205528 8753857297
Rx MBs          : 1155308 8449978
Tx MBs          : 19715946 5882592
ARP/ICMP Pkts   : 15/0 20/0
Pattern Type     : abcd... abcd...
Tx Count/% Rate : Forever /100% Forever /100%
PktSize/Tx Burst : 64 / 64 64 / 64
Src/Dest Port    : 1234 / 5678 1234 / 5678
Pkt Type:VLAN ID : IPv4 / TCP:0001 IPv4 / TCP:0001
Dst IP Address   : 10.1.0.10 10.0.0.10
Src IP Address   : 10.0.0.10/24 10.1.0.10/24
Dst MAC Address  : 90:e2:ba:92:cc:0c 90:e2:ba:92:cc:0e
Src MAC Address  : 00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr  : 8086:10fb/01:00.0 8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2) Powered by DPDK -----

```

1.2.2. ANS (1 core) routing forward both way

Pktgen port 0 <-> ans routing forward (1 core) <-> pktgen port 1

➤ ANS startup command

```
# ./build/ans -c 0x2 -n 1 -base-virtaddr=0x2aaa2aa0000 -- -p 0x3 -config="(0,0,1), (1,0,1)"
```

➤ Testing result

Packet Size (Bytes)	Throughput (Mpps)
64	8.15
128	Line Rate

```

/ Ports 0-3 of 5  <Main Page>  Copyright (c) <2010-2017>, Intel Corporation
Flags:Port       : P-----I---g---:0   P-----I---g---:1
Link State       : <UP-10000-FD>         <UP-10000-FD>         ----TotalRate----
Pkts/s Max/Rx    : 4076914/4075049       4076925/4075042       8153839/8150091
      Max/Tx      : 14880923/14880860     14880966/14880877     29761889/29761737
MBits/s Rx/Tx    : 2738/9999             2738/9999             5476/19999
Broadcast        : 0                     0
Multicast        : 0                     0
  64 Bytes       : 170962034             171130282
  65-127         : 0                     0
  128-255        : 0                     0
  256-511        : 0                     0
  512-1023       : 0                     0
  1024-1518      : 0                     0
Runts/Jumbos     : 0/0                   0/0
Errors Rx/Tx     : 0/0                   0/0
Total Rx Pkts    : 168924440             169092628
      Tx Pkts     : 647251234             646897301
      Rx MBs      : 113517                113630
      Tx MBs      : 434952                434714
ARP/ICMP Pkts    : 0/0                   0/0
Pattern Type     : abcd...               abcd...
Tx Count/% Rate  : Forever /100%         Forever /100%
PktSize/Tx Burst : 64 / 64               64 / 64
Src/Dst Port     : 1234 / 5678            1234 / 5678
Pkt Type:VLAN ID : IPv4 / TCP:0001       IPv4 / TCP:0001
Dst IP Address   : 10.1.0.10              10.0.0.10
Src IP Address   : 10.0.0.10/24           10.1.0.10/24
Dst MAC Address   : 90:e2:ba:92:cc:0c     90:e2:ba:92:cc:0e
Src MAC Address   : 00:16:31:fb:00:58     00:16:31:fb:00:59
VendID/PCI Addr  : 8086:10fb/01:00.0      8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2)  Powered by DPDK -----

```

1.2.3. ANS (2 core) routing forward both way

Pktgen port 0 <-> ans routing forward (2 core) <-> pktgen port 1

➤ ANS startup command

```
#./build/ans -c 0x6 -n 1 -base-virtaddr=0x2aaa2aa0000 -- -p 0x3 -config="(0,0,1), (1,0,2)"
```

➤ Testing result

Packet Size (Bytes)	Throughput (Mpps)
---------------------	-------------------

64	16.39
128	Line Rate

```

/ Ports 0-3 of 5 <Main Page> Copyright (c) <2010-2017>, Intel Corporation
  Flags:Port      : P-----I---g---:0 P-----I---g---:1
Link State       : <UP-10000-FD> <UP-10000-FD> ----TotalRate----
Pkts/s Max/Rx    : 8293348/8291523 8104392/8100768 16395930/16392291
                  Max/Tx      : 14881060/14880917 14881370/14880877 29762308/29761794
MBits/s Rx/Tx    : 5571/9999 5443/9999 11015/19999
Broadcast        : 0 0
Multicast        : 0 0
  64 Bytes       : 835361694 828926796
  65-127         : 0 0
  128-255        : 0 0
  256-511        : 0 0
  512-1023       : 0 0
  1024-1518      : 0 0
Runts/Jumbos     : 0/0 0/0
Errors Rx/Tx     : 0/0 0/0
Total Rx Pkts    : 831220013 824874932
                  Tx Pkts    : 1562155188 1565539252
                  Rx MBs     : 558579 554315
                  Tx MBs     : 1049768 1052042
ARP/ICMP Pkts    : 25/0 13/0
                  :
Pattern Type     : abcd... abcd...
Tx Count/% Rate  : Forever /100% Forever /100%
PktSize/Tx Burst : 64 / 64 64 / 64
Src/Dst Port     : 1234 / 5678 1234 / 5678
Pkt Type:VLAN ID : IPv4 / TCP:0001 IPv4 / TCP:0001
Dst IP Address   : 10.1.0.10 10.0.0.10
Src IP Address   : 10.0.0.10/24 10.1.0.10/24
Dst MAC Address  : 90:e2:ba:92:cc:0c 90:e2:ba:92:cc:0e
Src MAC Address  : 00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr  : 8086:10fb/01:00.0 8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2) Powered by DPDK -----

```

1.2.4. ANS (1 core) routing forward one way with 1000 ACL

Pktgen port 0 -> ans routing forward (1 core)-> pktgen port 1

➤ ANS startup command

```
# ./build/ans -c 0x2 -n 1 --base-virtaddr=0x2aaa2aa0000 --p 0x3 --config="(0,0,1), (1,0,1)"
```

```
ans> acl add index 1 srcaddr 2.0.0.0/24 dstaddr 3.0.0.0/24 srcportstart 0 srcportend 65535
dstportstart 1 dstportend 1 protocol 0 iface any drop
```

....

```
ans> acl add index 1000 srcaddr 2.0.0.0/24 dstaddr 3.0.0.0/24 srcportstart 0 srcportend 65535
dstportstart 1000 dstportend 1000 protocol 0 iface any drop
```

➤ Testing result

Packet Size (Bytes)	Throughput (Mpps)
64	6.42
128	6.51
256	Line Rate

=====64 byte =====

```

\ Ports 0-3 of 5  <Main Page> Copyright (c) <2010-2017>, Intel Corporation
  Flags:Port      : P-----I---g---:0 P-----I---g---:1
Link State       : <UP-10000-FD> <UP-10000-FD> ----TotalRate----
Pkts/s Max/Rx    : 0/0 6423552/6422656 6423552/6422656
  Max/Tx         : 14880891/14880852 0/0 14880891/14880852
MBits/s Rx/Tx    : 0/9999 4316/0 4316/9999
Broadcast        : 0 0
Multicast        : 0 0
  64 Bytes       : 0 603422298
  65-127         : 0 0
  128-255        : 0 0
  256-511        : 0 0
  512-1023       : 0 0
  1024-1518      : 0 0
Runts/Jumbos     : 0/0 0/0
Errors Rx/Tx     : 0/0 0/0
Total Rx Pkts    : 0 597807337
  Tx Pkts        : 1385429982 0
  Rx MBs         : 0 401726
  Tx MBs         : 931008 0
ARP/ICMP Pkts   : 0/0 0/0
Pattern Type     : abcd... abcd...
Tx Count/% Rate  : Forever /100% Forever /100%
PktSize/Tx Burst : 64 / 64 64 / 64
Src/Dst Port     : 1234 / 5678 1234 / 5678
Pkt Type:VLAN ID : IPv4 / TCP:0001 IPv4 / TCP:0001
Dst IP Address   : 10.1.0.10 10.0.0.10
Src IP Address   : 10.0.0.10/24 10.1.0.10/24
Dst MAC Address  : 90:e2:ba:92:cc:0c 90:e2:ba:92:cc:0e
Src MAC Address  : 00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr  : 8086:10fb/01:00.0 8086:10fb/01:00.1
-- Pktgen Ver: 3.4.2 (DPDK 17.05.2) Powered by DPDK -----

```

=====128 byte =====

```

| Ports 0-3 of 5  <Main Page>  Copyright (c) <2010-2017>, Intel Corporation
  Flags:Port      :  P-----I---g---:0    P-----I---g---:1
Link State       :  <UP-10000-FD>      <UP-10000-FD>      ----TotalRate----
Pkts/s Max/Rx   :           0/0        6508975/6505996      6508975/6505996
      Max/Tx     :      8445911/8445905           0/0        8445911/8445905
MBits/s Rx/Tx   :           0/9999      7703/0            7703/9999
Broadcast       :           0           0
Multicast       :           0           0
  64 Bytes      :           0           0
  65-127        :           0           0
  128-255       :           0        305827869
  256-511      :           0           0
  512-1023     :           0           0
  1024-1518    :           0           0
Runts/Jumbos    :           0/0         0/0
Errors Rx/Tx    :           0/0         0/0
Total Rx Pkts   :           0        302573683
      Tx Pkts    :      392981893           0
      Rx MBs     :           0        358247
      Tx MBs     :      465290           0
ARP/ICMP Pkts   :           0/0         0/0
:
Pattern Type    :           abcd...      abcd...
Tx Count/% Rate :      Forever /100%    Forever /100%
PktSize/Tx Burst :      128 /   64      128 /   64
Src/Dst Port    :      1234 / 5678      1234 / 5678
Pkt Type:VLAN ID :      IPv4 / TCP:0001  IPv4 / TCP:0001
Dst IP Address  :      10.1.0.10        10.0.0.10
Src IP Address  :      10.0.0.10/24     10.1.0.10/24
Dst MAC Address :      90:e2:ba:92:cc:0c 90:e2:ba:92:cc:0e
Src MAC Address :      00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr :      8086:10fb/01:00.0 8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2)  Powered by DPDK -----

```

1.2.5. ANS (2 core) routing forward both way with 1000 ACL

Pktgen port 0 <-> ans routing forward (2 core) <-> pktgen port 1

➤ ANS startup command

```
#./build/ans -c 0x6 -n 1 -base-virtaddr=0x2aaa2aa0000 -- -p 0x3 -config="(0,0,1), (1,0,2)"
```

```
ans> acl add index 1      srcaddr 2.0.0.0/24 dstaddr 3.0.0.0/24 srcportstart 0 srcportend 65535
dstportstart 1          dstportend 1          protocol 0 iface any drop
```

....

```
ans> acl add index 1000 srcaddr 2.0.0.0/24 dstaddr 3.0.0.0/24 srcportstart 0 srcportend 65535
dstportstart 1000 dstportend 1000 protocol 0 iface any drop
```

➤ Testing result

Packet Size (Bytes)	Throughput (Mpps)
---------------------	-------------------

ANS Performance Report

64	12.96
128	12.91
256	Line Rate

=====64 byte =====

```
| Ports 0-3 of 5    <Main Page>  Copyright (c) <2010-2017>, Intel Corporation
  Flags:Port       :  P-----I---g---:0    P-----I---g---:1
Link State        :      <UP-10000-FD>      <UP-10000-FD>      ----TotalRate----
Pkts/s Max/Rx     :      6533060/6516609      6454242/6442643      12981405/12959252
      Max/Tx       :      14880928/14880892      14880966/14880894      29761875/29761786
MBits/s Rx/Tx     :      4379/9999            4329/9999            8708/19999
Broadcast         :      0                    0
Multicast         :      0                    0
  64 Bytes        :      1145358227            1131952414
  65-127          :      0                    0
  128-255         :      0                    0
  256-511         :      0                    0
  512-1023        :      0                    0
  1024-1518       :      0                    0
Runts/Jumbos      :      0/0                  0/0
Errors Rx/Tx      :      0/0                  0/0
Total Rx Pkts     :      1139655904            1126312085
      Tx Pkts      :      2628200319            2627939254
      Rx MBs       :      765848                756881
      Tx MBs       :      1766150               1765975
ARP/ICMP Pkts     :      20/0                  20/0
:
Pattern Type      :      abcd...              abcd...
Tx Count/% Rate   :      Forever /100%        Forever /100%
PktSize/Tx Burst  :      64 / 64              64 / 64
Src/Dest Port     :      1234 / 5678            1234 / 5678
Pkt Type:VLAN ID  :      IPv4 / TCP:0001      IPv4 / TCP:0001
Dst IP Address    :      10.1.0.10             10.0.0.10
Src IP Address    :      10.0.0.10/24          10.1.0.10/24
Dst MAC Address   :      90:e2:ba:92:cc:0c     90:e2:ba:92:cc:0e
Src MAC Address   :      00:16:31:fb:00:58     00:16:31:fb:00:59
VendID/PCI Addr   :      8086:10fb/01:00.0     8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2)  Powered by DPDK -----
```

=====128 byte =====

```

\ Ports 0-3 of 5 <Main Page> Copyright (c) <2010-2017>, Intel Corporation
Flags:Port      : P-----I---g---:0 P-----I---g---:1
Link State      : <UP-10000-FD> <UP-10000-FD> ----TotalRate----
Pkts/s Max/Rx   : 6536336/6529551 6393020/6382614 12921273/12912165
Max/Tx          : 8445928/8445908 8445947/8445932 16891869/16891840
Mbits/s Rx/Tx   : 7730/9999 7557/9999 15288/19999
Broadcast       : 0 0
Multicast       : 0 0
64 Bytes       : 0 0
65-127         : 0 0
128-255        : 417770573 408482405
256-511        : 0 0
512-1023       : 0 0
1024-1518      : 0 0
Runts/Jumbos    : 0/0 0/0
Errors Rx/Tx    : 0/0 0/0
Total Rx Pkts   : 412060166 402898662
Tx Pkts         : 533107232 533019590
Rx MBs          : 487879 477032
Tx MBs          : 631198 631095
ARP/ICMP Pkts   : 0/0 0/0
Pattern Type    : abcd... abcd...
Tx Count/% Rate : Forever /100% Forever /100%
PktSize/Tx Burst : 128 / 64 128 / 64
Src/Dest Port   : 1234 / 5678 1234 / 5678
Pkt Type:VLAN ID : IPv4 / TCP:0001 IPv4 / TCP:0001
Dst IP Address  : 10.1.0.10 10.0.0.10
Src IP Address  : 10.0.0.10/24 10.1.0.10/24
Dst MAC Address  : 90:e2:ba:92:cc:0c 90:e2:ba:92:cc:0e
Src MAC Address  : 00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr : 8086:10fb/01:00.0 8086:10fb/01:00.1
-- Pktgen Ver: 3.4.2 (DPDK 17.05.2) Powered by DPDK -----

```

2. ANS UDP APP Performance

2.1. Testing Environment

➤ CPU

Intel(R) Xeon(R) CPU E5-2683 v3 @ 2.00GHz

➤ NIC

02:00.0 Ethernet controller: Intel Corporation 82599ES 10-Gigabit SFI/SFP+ Network Connection (rev 01)

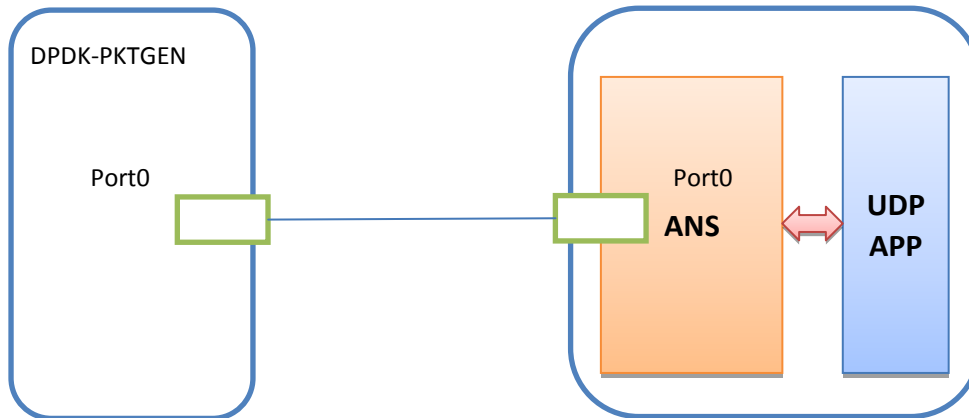
02:00.1 Ethernet controller: Intel Corporation 82599ES 10-Gigabit SFI/SFP+ Network Connection (rev 01)

➤ Version

dpdk-17.05.2.tar.xz

Pktgen Ver: 3.4.2 (DPDK 17.05.2)

➤ Network Topology



2.2. Testing Report

2.2.1. ANS (1 core) UDP APP send throughput

ans udp app(1 fd) -> ans L4/L3/L2(1 core)-> pktgen port 0

➤ ANS startup command

```
# ./build/ans -c 0x2 -n 1 --base-virtaddr=0x2aaa2aa0000 -- -p 0x3 --config="(0,0,1), (1,0,1)"
```

```
# ./build/dpdk_udp 4
```

➤ Testing result

Packet Size (Bytes)	Throughput (MBps)
64	3664
128	5971
256	10000

===64 bytes

```
\ Ports 0-3 of 5 <Main Page> Copyright (c) <2010-2017>, Intel Corporation
Flags:Port      : P-----I---g---:0 P-----:1
Link State      : <UP-10000-FD> <UP-10000-FD> ----TotalRate----
Pkts/s Max/Rx   : 5210681/5205704 0/0 5210681/5205704
Max/Tx          : 0/0 0/0 0/0
MBits/s Rx/Tx   : 3664/0 0/0 3664/0
Broadcast       : 0 0
Multicast       : 0 0
64 Bytes        : 0 0
65-127          : 25823518 0
128-255         : 0 0
256-511         : 0 0
512-1023        : 0 0
1024-1518       : 0 0
Runts/Jumbos    : 0/0 0/0
Errors Rx/Tx    : 0/0 0/0
Total Rx Pkts   : 23869570 0
Tx Pkts         : 0 0
Rx MBs          : 16804 0
Tx MBs          : 0 0
ARP/ICMP Pkts   : 0/0 0/0
Pattern Type    : abcd... abcd...
Tx Count/% Rate : Forever /100% Forever /100%
PktSize/Tx Burst : 64 / 64 64 / 64
Src/Dest Port    : 9999 / 8888 1234 / 5678
Pkt Type:VLAN ID : IPv4 / UDP:0001 IPv4 / TCP:0001
Dst IP Address   : 10.0.0.2 192.168.0.1
Src IP Address   : 10.0.0.10/24 192.168.1.1/24
Dst MAC Address  : 90:e2:ba:92:cc:0c 00:16:31:fb:00:58
Src MAC Address  : 00:16:31:fb:00:58 00:16:31:fb:00:59
VendID/PCI Addr  : 8086:10fb/01:00.0 8086:10fb/01:00.1
-- Pktgen Ver: 3.4.2 (DPDK 17.05.2) Powered by DPDK -----
```

=== 128 byte

```

/ Ports 0-3 of 5  <Main Page>  Copyright (c) <2010-2017>, Intel Corporation
Flags:Port       : P-----I---g---:0   P-----:1
Link State       : <UP-10000-FD>         <UP-10000-FD>         ----TotalRate----
Pkts/s Max/Rx   : 4920384/4910858         0/0         4920384/4910858
      Max/Tx     : 0/0                     0/0         0/0
MBits/s Rx/Tx   : 5971/0                 0/0         5971/0
Broadcast       : 0                      0
Multicast       : 0                      0
  64 Bytes      : 0                      0
  65-127        : 0                      0
  128-255       : 193424100              0
  256-511       : 0                      0
  512-1023      : 0                      0
  1024-1518     : 0                      0
Runts/Jumbos    : 0/0                   0/0
Errors Rx/Tx    : 0/0                   0/0
Total Rx Pkts   : 192808306             0
      Tx Pkts   : 0                     0
      Rx MBs    : 234454                0
      Tx MBs    : 0                     0
ARP/ICMP Pkts   : 0/0                   0/0
:
Pattern Type    : abcd...               abcd...
Tx Count/% Rate : Forever /100%         Forever /100%
PktSize/Tx Burst : 64 / 64              64 / 64
Src/Dest Port   : 9999 / 8888            1234 / 5678
Pkt Type:VLAN ID : IPv4 / UDP:0001      IPv4 / TCP:0001
Dst IP Address  : 10.0.0.2              192.168.0.1
Src IP Address  : 10.0.0.10/24          192.168.1.1/24
Dst MAC Address : 90:e2:ba:92:cc:0c     00:16:31:fb:00:58
Src MAC Address : 00:16:31:fb:00:58     00:16:31:fb:00:59
VendID/PCI Addr : 8086:10fb/01:00.0     8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2)  Powered by DPDK -----

```

=== 256 byte

```

| Ports 0-3 of 5  <Main Page>  Copyright (c) <2010-2017>, Intel Corporation
  Flags:Port      :  P-----I---g---:0      P-----:1
Link State        :      <UP-10000-FD>      <UP-10000-FD>      ----TotalRate----
Pkts/s Max/Rx     :      4464334/4464332      0/0      4464334/4464332
      Max/Tx       :      0/0      0/0      0/0
MBits/s Rx/Tx     :      10000/0      0/0      10000/0
Broadcast         :      0      0
Multicast         :      0      0
  64 Bytes        :      0      0
  65-127          :      0      0
  128-255         :      0      0
  256-511         :      173572751      0
  512-1023        :      0      0
  1024-1518       :      0      0
Runts/Jumbos      :      0/0      0/0
Errors Rx/Tx      :      0/0      0/0
Total Rx Pkts     :      169666154      0
      Tx Pkts      :      0      0
      Rx MBs       :      380052      0
      Tx MBs       :      0      0
ARP/ICMP Pkts     :      0/0      0/0
:
Pattern Type      :      abcd...      abcd...
Tx Count/% Rate   :      Forever /100%      Forever /100%
PktSize/Tx Burst  :      64 / 64      64 / 64
Src/Dest Port     :      9999 / 8888      1234 / 5678
Pkt Type:VLAN ID  :      IPv4 / UDP:0001      IPv4 / TCP:0001
Dst IP Address    :      10.0.0.2      192.168.0.1
Src IP Address    :      10.0.0.10/24      192.168.1.1/24
Dst MAC Address   :      90:e2:ba:92:cc:0c      00:16:31:fb:00:58
Src MAC Address   :      00:16:31:fb:00:58      00:16:31:fb:00:59
VendID/PCI Addr   :      8086:10fb/01:00.0      8086:10fb/01:00.1

-- Pktgen Ver: 3.4.2 (DPDK 17.05.2)  Powered by DPDK -----

```