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## Quick start

*"A simple forwarding test with pcap PMD which works with any NIC (with performance penalties)"*

Extract sources.

```
tar xf dpdk.tar.gz
cd dpdk
```

Enable pcap (libpcap headers are required).

```
make config T=x86_64-native-linuxapp-gcc
sed -ri 's,(PMD_PCAP=).*,\1y,' build/.config
```

Build libraries and test application (Linux headers may be needed with default config).

```
make
```

Reserve huge pages memory.

```
mkdir -p /mnt/huge
mount -t hugetlbfs nodev /mnt/huge
echo 64 > /sys/devices/system/node/node0/hugepages/hugepages-2048kB/nr_hugepages
```

Run poll-mode driver test (with a cable between ports).

```
build/app/testpmd -c7 -n3 --vdev=eth_pcap0,iface=eth0 --vdev=eth_pcap1,iface=eth1 --
-i --nb-cores=2 --nb-ports=2 --total-num-mbufs=2048
```

```
testpmd> show port stats all
```

```
##### NIC statistics for port 0 #####
RX-packets: 0          RX-errors: 0          RX-bytes: 0
TX-packets: 0          TX-errors: 0          TX-bytes: 0
#####

##### NIC statistics for port 1 #####
RX-packets: 0          RX-errors: 0          RX-bytes: 0
TX-packets: 0          TX-errors: 0          TX-bytes: 0
#####
```

```
testpmd> start tx_first
```

```
testpmd> stop
```

```
----- Forward statistics for port 0 -----
RX-packets: 2377688      RX-dropped: 0      RX-total: 2377688
TX-packets: 2007009      TX-dropped: 0      TX-total: 2007009
-----

----- Forward statistics for port 1 -----
RX-packets: 2006977      RX-dropped: 0      RX-total: 2006977
TX-packets: 2377720      TX-dropped: 0      TX-total: 2377720
-----

+++++++ Accumulated forward statistics for all ports+++++++
RX-packets: 4384665      RX-dropped: 0      RX-total: 4384665
TX-packets: 4384729      TX-dropped: 0      TX-total: 4384729
+++++
```