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# Commands aren't always processed and the error is displayed

fdpi\_ctrl uses ordinary linux stack to communicate with the dpi, so the tuning recommendations are similar to the high load web servers (nginx-like)

Settings are similar to the nginx. It is recommended to insert it /etc/sysctl.conf (to keep safe from being dropped after server restart)

```
# Operating system network stack optimization
net.core.netdev_max_backlog=10000
net.core.somaxconn=262144
net.ipv4.tcp_syncookies=1
net.ipv4.tcp_max_syn_backlog = 262144
net.ipv4.tcp_max_tw_buckets = 720000
net.ipv4.tcp_tw_recycle = 1
net.ipv4.tcp_timestamps = 1
net.ipv4.tcp_tw_reuse = 1
net.ipv4.tcp_fin_timeout = 30
net.ipv4.tcp_keepalive_time = 1800
net.ipv4.tcp_keepalive_probes = 7
net.ipv4.tcp_keepalive_intvl = 30
net.core.wmem_max = 33554432
net.core.rmem_max = 33554432
net.core.rmem_default = 8388608
net.core.wmem_default = 4194394
net.ipv4.tcp_rmem = 4096 8388608 16777216
net.ipv4.tcp_wmem = 4096 4194394 16777216
```

for 1Gb interface:

```
net.core.netdev_max_backlog=10000
```

for 10Gb interface:

```
net.core.netdev_max_backlog=30000
```

To avoid rebooting the server they can be modified on-the-fly by applying the command: `sysctl -w` `настройка`, например, `sysctl -w net.ipv4.tcp_tw_reuse=1`

This should do the trick

## For the CentOS 7.\*

example:

```
# Operating system network stack optimization
net.core.netdev_max_backlog=65536
net.core.optmem_max=25165824
```

```
net.core.somaxconn=1024
net.ipv4.tcp_max_orphans = 60000
net.ipv4.tcp_no_metrics_save = 1
net.ipv4.tcp_window_scaling = 1
net.ipv4.tcp_timestamps = 1
net.ipv4.tcp_sack = 1
net.ipv4.tcp_syncookies=1
net.ipv4.tcp_max_syn_backlog = 262144
net.ipv4.tcp_max_tw_buckets = 720000
net.ipv4.tcp_tw_recycle = 1
net.ipv4.tcp_timestamps = 1
net.ipv4.tcp_tw_reuse = 1
net.ipv4.tcp_fin_timeout = 30
net.ipv4.tcp_keepalive_time = 1800
net.ipv4.tcp_keepalive_probes = 7
net.ipv4.tcp_keepalive_intvl = 30
net.core.wmem_max = 33554432
net.core.rmem_max = 33554432
net.core.rmem_default = 8388608
net.core.wmem_default = 4194394
net.ipv4.tcp_rmem = 4096 8388608 16777216
net.ipv4.tcp_wmem = 4096 4194394 16777216
```

update command:

```
sysctl -system
```

[Supplementary information CentOS7](#)