

* *

```

#                                     (max 65535)
# 128M -> 8192
# 256M -> 13684
# 512M -> 32768
# 1G -> 65536
# 2G -> 131072
fs.file-max = 65535

#          가          received host          backlog
net.core.netdev_max_backlog=2500

#
#          Serving
net.core.rmem_default = 65536
net.core.rmem_max = 8388608

#
#          Serving
#
net.core.wmem_default = 65536
net.core.wmem_max = 8388608

# TCP layer
#
net.ipv4.tcp_rmem = 4096 87380 8388608

# TCP layer
net.ipv4.tcp_wmem = 4096 65536 8388608

# The tcp_mem variable defines how the TCP stack should behave when it comes
to memory usage.
# TCP
#          min pressure max          . tcp_wmem tcp_rmem
# IA32 4KB가
#          가
# {min} {pressure} {max}
net.ipv4.tcp_mem = 4096 4096 4096

#
#          7          "TCP: too many of orphaned
sockets"
# "Out of socket memory"          가
net.ipv4.tcp_orphan_retries = 7

```

```
# RST TIME_WAIT 가
# 가
# net.ipv4.tcp_max_tw_buckets
net.ipv4.tcp_rfc1337 = 1
# SPECWeb99 selective
acknowledgements off
. SPECWeb99 1-2hop 가
on
# on
net.ipv4.tcp_sack = 1
# SPECWeb99 timestamps off
# SPECWeb99 1-2hop 가
# on . tcp_window_scaling
# on
net.ipv4.tcp_timestamps = 1
# tcp_sack tcp_timestamps
# , rmem, wmem tcp_rmem, tcp_wmem
# tcp_timestamps on
net.ipv4.tcp_window_scaling = 1
# KEEPALIVE stale
net.ipv4.tcp_keepalive_time = 1300
# listen backlog
net.ipv4.tcp_max_syn_backlog = 8192
# FIN_TIMEOUT
net.ipv4.tcp_fin_timeout = 30
# 가
net.ipv4.ip_local_port_range = 16384 65536
# DOS SYN flooding On
#
# tcp_
net.ipv4.tcp_syncookies = 1
# off IP
net.ipv4.ip_forward = 0
# high load
# TIME_WAIT 가 60 가
```

```

net.ipv4.tcp_max_tw_buckets = 2000000

# Linux 2.4
#          ssthread

#      10

net.ipv4.route.flush = 1

# 가
# 가
vm.bdflush = 100 1200 128 512 15 5000 500 1884 2

#          ,          ICMP ECHO          . smurf
#
net.ipv4.icmp_echo_ignore_broadcasts = 1

# SRR          . IP source routing
#          . TRUE (router) FALSE (host)
#
net.ipv4.conf.all.accept_source_route = 0

#net.ipv4.conf.all.send_redirects=0
#net.ipv4.conf.all.accept_redirects=0
# DOS          IP Spoofing  Source Route
#          가
#          on
# RFC182          IP spoof          ( 2.2 )
#
net.ipv4.conf.eth0.rp_filter = 1
net.ipv4.conf.lo.rp_filter = 1
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.all.rp_filter = 1

# Log Spoofed Packets, source Routed Packets, Redirect packetes
# ip
#
net.ipv4.conf.all.log_martians = 1

#
kernel.shmmax=3800000000

#
# : {          SEM } { SEM          } { SEMOP          OP } {          }
# : { SEM          } = {          } x {          SEM } (DB2
)
kernel.sem=1000 32000 32 512

#
kernel.msgmni = 1024

```

1) (,) # vi /etc/sysctl.conf

```
net.ipv4.tcp_sack = 0 net.ipv4.tcp_rmem = 4096 87380 16194304 net.ipv4.tcp_wmem = 4096 87380 16194304
```

```
net.core.rmem_max = 16194304 net.core.wmem_max = 16194304 net.core.rmem_default = 87380 net.core.wmem_default = 87380
```

```
net.core.optmem_max = 87380 net.core.netdev_max_backlog = 300000 net.ipv4.tcp_adv_win_scale = 1
```

```
# sysctl -p
```

```
2) offload ( , ) # ethtool -K eth0 gso off # ethtool -K eth2 gso off # ethtool -K eth0 lro off # ethtool -K eth2 lro off
```

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