* *

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

# 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 4KB
. # . #
{min} {pressure} {max} net.ipv4.tcp_mem = 4096 4096 4096

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

RST TIME_WAIT .
#
net.ipv4.tcp_max_tw_buckets .
. net.ipv4.tcp_rfc1337 = 1

SPECWeb99 selective
acknowledgements off . SPECWeb99 1-2hop
on .

on . net.ipv4.tcp_sack = 1

SPECWeb99 timestamps off
. # SPECWeb99 1-2hop
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

. 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
      60   .
net.ipv4.tcp_max_tw_buckets = 2000000

Linux 2.4   . #   ssthread
       #   10
       . net.ipv4.route.flush = 1

#   . #   .
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   . #
       . #   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

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