

NAME

sysctlmib — Kernel Sysctl MIB Information

DESCRIPTION

The FreeBSD `sysctl` database allows one to manipulate and monitor various subsystems in the kernel. Nodes can be added and removed dynamically without any type of recompilation needed, unless the actual ABI changes.

From a programming perspective, it is better to get values from the `sysctl(3)` database than to use the infamous KVM interface.

This manual page contains a comprehensively described list of the sysctls available at hand on FreeBSD.

SYSCTL LIST**net.local.stream.sendspace**

No explanation provided, as of yet.

net.local.stream.recvspace

No explanation provided, as of yet.

net.local.stream.pcblist

List of active local stream sockets.

net.local.dgram.maxdgram

No explanation provided, as of yet.

net.local.dgram.recvspace

No explanation provided, as of yet.

net.local.dgram.pcblist

List of active local datagram sockets.

net.local.inflight

No explanation provided, as of yet.

net.inet.ip.portrange.lowfirst

No explanation provided, as of yet.

net.inet.ip.portrange.lowlast

No explanation provided, as of yet.

net.inet.ip.portrange.first

No explanation provided, as of yet.

net.inet.ip.portrange.last

No explanation provided, as of yet.

net.inet.ip.portrange.hifirst

No explanation provided, as of yet.

net.inet.ip.portrange.hilast

No explanation provided, as of yet.

net.inet.ip.portrange.reservedhigh

No explanation provided, as of yet.

net.inet.ip.portrange.reservedlow

No explanation provided, as of yet.

net.inet.ip.forwarding

Enable IP forwarding between interfaces.

net.inet.ip.redirect

Enable sending IP redirects.

net.inet.ip.ttl

Maximum TTL on IP packets.

net.inet.ip.rtxpire

Default expiration time on dynamically learned routes.

net.inet.ip.rtminexpire

Minimum time to attempt to hold onto dynamically learned routes.

net.inet.ip.rtmmaxcache

Upper limit on dynamically learned routes.

net.inet.ip.sourceroute

Enable forwarding source routed IP packets.

net.inet.ip.intr_queue_maxlen

Maximum size of the IP input queue.

net.inet.ip.intr_queue_drops

Number of packets dropped from the IP input queue.

net.inet.ip.stats

IP statistics (struct ipstat, netinet/ip_var.h).

net.inet.ip.accept_sourceroute

Enable accepting source routed IP packets.

net.inet.ip.fastforwarding

Enable flow-based IP forwarding.

net.inet.ip.keepfaith

Enable packet capture for FAITH IPv4->IPv6 translator daemon.

net.inet.ip.gifttl

No explanation provided, as of yet.

net.inet.ip.subnets_are_local

No explanation provided, as of yet.

net.inet.ip.maxfragpackets

Maximum number of IPv4 fragment reassembly queue entries.

net.inet.ip.maxfragsperpacket

Maximum number of IPv4 fragments allowed per packet.

net.inet.ip.sendsourcequench

Enable the transmission of source quench packets.

net.inet.ip.check_interface

Verify packet arrives on correct interface.

net.inet.icmp.maskrepl

Reply to ICMP Address Mask Request packets..

net.inet.icmp.stats

No explanation provided, as of yet.

net.inet.icmp.icmplim

No explanation provided, as of yet.

net.inet.icmp.maskfake

Fake reply to ICMP Address Mask Request packets..

net.inet.icmp.drop_redirect

No explanation provided, as of yet.

net.inet.icmp.log_redirect

No explanation provided, as of yet.

net.inet.icmp.icmplim_output

No explanation provided, as of yet.

net.inet.icmp.bmcastecho

No explanation provided, as of yet.

net.inet.igmp.stats

No explanation provided, as of yet.

net.inet.tcp.rfc1323

Enable rfc1323 (high performance TCP) extensions.

net.inet.tcp.rfc1644

Enable rfc1644 (TTCP) extensions.

net.inet.tcp.mssdflt

Default TCP Maximum Segment Size.

net.inet.tcp.stats

TCP statistics (struct tcpstat, netinet/tcp_var.h).

net.inet.tcp.keepidle

No explanation provided, as of yet.

net.inet.tcp.keepintvl

No explanation provided, as of yet.

net.inet.tcp.sendspace

Maximum outgoing TCP datagram size.

net.inet.tcp.recvspace

Maximum incoming TCP datagram size.

net.inet.tcp.keepinit

No explanation provided, as of yet.

net.inet.tcp.pcblist

List of active TCP connections.

net.inet.tcp.delacktime

Time before a delayed ACK is sent.

net.inet.tcp.v6mssdflt

Default TCP Maximum Segment Size for IPv6.

net.inet.tcp.log_in_vain

Log all incoming TCP connections.

net.inet.tcp.blackhole

Do not send RST when dropping refused connections.

net.inet.tcp.delayed_ack

Delay ACK to try and piggyback it onto a data packet.

net.inet.tcp.rfc3042

Enable RFC 3042 (Limited Transmit).

net.inet.tcp.rfc3390

Enable RFC 3390 (Increasing TCP's Initial Congestion Window).

net.inet.tcp.path_mtu_discovery

Enable Path MTU Discovery.

net.inet.tcp.slowstart_flightsize

Slow start flight size.

net.inet.tcp.local_slowstart_flightsize

Slow start flight size for local networks.

net.inet.tcp.newreno

Enable NewReno Algorithms.

net.inet.tcp.tcbhashsize

Size of TCP control-block hashtable.

net.inet.tcp.do_tcpdrain

Enable tcp_drain routine for extra help when low on mbufs.

net.inet.tcp.pcbcount

Number of active PCBs.

net.inet.tcp.icmp_may_rst

Certain ICMP unreachable messages may abort connections in SYN_SENT.

net.inet.tcp.isn_reseed_interval

Seconds between reseeding of ISN secret.

net.inet.tcp.inflight_enable

Enable automatic TCP inflight data limiting.

net.inet.tcp.inflight_debug

Debug TCP inflight calculations.

net.inet.tcp.inflight_min

Lower-bound for TCP inflight window.

net.inet.tcp.inflight_max

Upper-bound for TCP inflight window.

net.inet.tcp.inflight_stab

Inflight Algorithm Stabilization 20 = 2 packets.

net.inet.tcp.getcred

Get the xucred of a TCP connection.

net.inet.tcp.syncookies

Use TCP SYN cookies if the syncache overflows.

net.inet.tcp.syncache.bucketlimit

Per-bucket hash limit for syncache.

net.inet.tcp.syncache.cachelimit

Overall entry limit for syncache.

net.inet.tcp.syncache.count

Current number of entries in syncache.

net.inet.tcp.syncache.hashsize

Size of TCP syncache hashtable.

net.inet.tcp.syncache.rexmtlimit

Limit on SYN/ACK retransmissions.

net.inet.tcp.msl

Maximum segment lifetime.

net.inet.tcp.rexmit_min

Minimum Retransmission Timeout.

net.inet.tcp.rexmit_slop

Retransmission Timer Slop.

net.inet.tcp.always_keepalive

Assume SO_KEEPALIVE on all TCP connections.

net.inet.udp.checksum

No explanation provided, as of yet.

net.inet.udp.stats

UDP statistics (struct udpstat, netinet/udp_var.h).

net.inet.udp.maxdgram

Maximum outgoing UDP datagram size.

net.inet.udp.recvspace

Maximum incoming UDP datagram size.

net.inet.udp.pcblist

List of active UDP sockets.

net.inet.udp.log_in_vain

Log all incoming UDP packets.

net.inet.udp.blackhole

Do not send port unreachables for refused connects.

net.inet.udp.getcred

Get the xucred of a UDP connection.

net.inet.raw.maxdgram

Maximum outgoing raw IP datagram size.

net.inet.raw.recvspace

Maximum incoming raw IP datagram size.

net.inet.raw.pcblist

List of active raw IP sockets.

net.inet.accf.unloadable

Allow unload of accept filters (not recommended).

net.routetable

No explanation provided, as of yet.

net.link.generic.system.ifcount

Number of configured interfaces.

net.link.generic.ifdata

Interface table.

net.link.ether.inet.prune_intvl

No explanation provided, as of yet.

net.link.ether.inet.max_age

No explanation provided, as of yet.

net.link.ether.inet.host_down_time

No explanation provided, as of yet.

net.link.ether.inet.maxtries

No explanation provided, as of yet.

net.link.ether.inet.useloopback

No explanation provided, as of yet.

net.link.ether.inet.proxyall

No explanation provided, as of yet.

net.link.ether.inet.log_arp_wrong_iface

log arp packets arriving on the wrong interface.

net.link.ether.inet.log_arp_movements

log arp replies from MACs different than the one in the cache.

net.link.ether.ipfw

Pass ether pkts through firewall.

net.link.gif.max_nesting

Max nested tunnels.

net.link.gif.parallel_tunnels

Allow parallel tunnels?.

net.inet6.tcp6.getcred

Get the xucred of a TCP6 connection.

net.inet6.udp6.getcred

Get the xucred of a UDP6 connection.

net.inet6.ip6.forwarding

No explanation provided, as of yet.

net.inet6.ip6.redirect

No explanation provided, as of yet.

net.inet6.ip6.hlim

No explanation provided, as of yet.

net.inet6.ip6.stats

No explanation provided, as of yet.

net.inet6.ip6.maxfragpackets

No explanation provided, as of yet.

net.inet6.ip6.accept_rtadv

No explanation provided, as of yet.

net.inet6.ip6.keepfaith

No explanation provided, as of yet.

net.inet6.ip6.log_interval

No explanation provided, as of yet.

net.inet6.ip6.hdrnestlimit

No explanation provided, as of yet.

net.inet6.ip6.dad_count

No explanation provided, as of yet.

net.inet6.ip6.auto_fbwlabel

No explanation provided, as of yet.

net.inet6.ip6.defmcasthlim

No explanation provided, as of yet.

net.inet6.ip6.gifhlim

No explanation provided, as of yet.

net.inet6.ip6.kame_version

No explanation provided, as of yet.

net.inet6.ip6.use_deprecated

No explanation provided, as of yet.

net.inet6.ip6.rr_prune

No explanation provided, as of yet.

net.inet6.ip6.v6only

No explanation provided, as of yet.

net.inet6.ip6.rtexpire

No explanation provided, as of yet.

net.inet6.ip6.rtmminexpire

No explanation provided, as of yet.

net.inet6.ip6.rtmmaxcache

No explanation provided, as of yet.

net.inet6.ip6.use_tempaddr

No explanation provided, as of yet.

net.inet6.ip6.temppltime

No explanation provided, as of yet.

net.inet6.ip6.tempvltime

No explanation provided, as of yet.

net.inet6.ip6.auto_linklocal

No explanation provided, as of yet.

net.inet6.ip6.rip6stats

No explanation provided, as of yet.

net.inet6.ip6.addrtcpolicy

No explanation provided, as of yet.

net.inet6.ip6.maxfrags

No explanation provided, as of yet.

net.inet6.icmp6.stats

No explanation provided, as of yet.

net.inet6.icmp6.rediraccept

No explanation provided, as of yet.

net.inet6.icmp6.redirtimeout

No explanation provided, as of yet.

net.inet6.icmp6.nd6_prune

No explanation provided, as of yet.

net.inet6.icmp6.nd6_delay

No explanation provided, as of yet.

net.inet6.icmp6.nd6_umaxtries

No explanation provided, as of yet.

net.inet6.icmp6.nd6_mmaxtries

No explanation provided, as of yet.

net.inet6.icmp6.nd6_uselookback

No explanation provided, as of yet.

net.inet6.icmp6.nodeinfo

No explanation provided, as of yet.

net.inet6.icmp6.errppslimit

No explanation provided, as of yet.

net.inet6.icmp6.nd6_maxnudhint

No explanation provided, as of yet.

net.inet6.icmp6.nd6_debug

No explanation provided, as of yet.

net.inet6.icmp6.nd6_drlist

No explanation provided, as of yet.

net.inet6.icmp6.nd6_prlist

No explanation provided, as of yet.

net.isr.enable

enable direct dispatch.

net.isr.count

No explanation provided, as of yet.

net.isr.directed

No explanation provided, as of yet.

net.isr.deferred

No explanation provided, as of yet.

net.isr.queued

No explanation provided, as of yet.

net.isr.swi_count

No explanation provided, as of yet.

SEE ALSO

`sysctl(8)`

AUTHORS

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