

**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****vfs.nfs.nfsstats**

S,nfsstats.

**vfs.nfs.realign\_test**

No explanation provided, as of yet.

**vfs.nfs.realign\_count**

No explanation provided, as of yet.

**vfs.nfs.bufpackets**

No explanation provided, as of yet.

**vfs.nfs.iodmaxidle**

No explanation provided, as of yet.

**vfs.nfs.iodmin**

No explanation provided, as of yet.

**vfs.nfs.iodmax**

No explanation provided, as of yet.

**vfs.nfs.defect**

No explanation provided, as of yet.

**vfs.nfs.nfs\_ip\_paranoia**

No explanation provided, as of yet.

**vfs.nfs.diskless\_valid**

No explanation provided, as of yet.

**vfs.nfs.diskless\_rootpath**

No explanation provided, as of yet.

**vfs.nfs.diskless\_rootaddr**

No explanation provided, as of yet.

**vfs.nfs.access\_cache\_timeout**

NFS ACCESS cache timeout.

**vfs.nfs.nfsv3\_commit\_on\_close**

write+commit on close, else only write.

**vfs.devfs.noverflow**

Size of DEVFS overflow table.

**vfs.devfs.generation**

DEVFS generation number.

**vfs.devfs.inodes**

DEVFS inodes.

**vfs.devfs.topinode**

DEVFS highest inode#.

**vfs.pfs.vncache.entries**

number of entries in the vnode cache.

**vfs.pfs.vncache.maxentries**

highest number of entries in the vnode cache.

**vfs.pfs.vncache.hits**

number of cache hits since initialization.

**vfs.pfs.vncache.misses**

number of cache misses since initialization.

**vfs.vmioldirenable**

Use the VM system for directory writes.

**vfs.runningbufspace**

Amount of presently outstanding async buffer io.

**vfs.bufspace**

KVA memory used for bufs.

**vfs.maxbufspace**

Maximum allowed value of bufspace (including buf\_daemon).

**vfs.bufmalloospace**

Amount of malloced memory for buffers.

**vfs.maxmalloobufspace**

Maximum amount of malloced memory for buffers.

**vfs.lobufspace**

Minimum amount of buffers we want to have.

**vfs.hibufspace**

Maximum allowed value of bufspace (excluding buf\_daemon).

**vfs.bufreusecnt**

Number of times we have reused a buffer.

**vfs.buffreekvacnt**

Number of times we have freed the KVA space from some buffer.

**vfs.bufdefragcnt**

Number of times we have had to repeat buffer allocation to defragment.

**vfs.lorunningspace**

Minimum preferred space used for in-progress I/O.

**vfs.hirunningspace**

Maximum amount of space to use for in-progress I/O.

**vfs.dirtybufferflushes**

Number of bwrite to bawrite conversions to limit dirty buffers.

**vfs.altbufferflushes**

Number of fsync flushes to limit dirty buffers.

**vfs.recursiveflushes**

Number of flushes skipped due to being recursive.

**vfs.numdirtybuffers**

Number of buffers that are dirty (has unwritten changes) at the moment.

**vfs.lodirtybuffers**

How many buffers we want to have free before bufdaemon can sleep.

**vfs.hidirtybuffers**

When the number of dirty buffers is considered severe.

**vfs.dirtybufthresh**

Number of bwrite to bawrite conversions to clear dirty buffers.

**vfs.numfreebuffers**

Number of free buffers.

**vfs.lofreebuffers**

XXX Unused.

**vfs.hifreebuffers**

XXX Complicatedly unused.

**vfs.getnewbufcalls**

Number of calls to getnewbuf.

**vfs.getnewbufrestarts**

Number of times getnewbuf has had to restart a buffer acquisition.

**vfs.flushwithdeps**

Number of buffers flushed with dependencies that require rollbacks.

**vfs.cache.numneg**

No explanation provided, as of yet.

**vfs.cache.numcache**

No explanation provided, as of yet.

**vfs.cache.numcalls**

No explanation provided, as of yet.

**vfs.cache.dothis**

No explanation provided, as of yet.

**vfs.cache.dotdothis**

No explanation provided, as of yet.

**vfs.cache.numchecks**

No explanation provided, as of yet.

**vfs.cache.nummiss**

No explanation provided, as of yet.

**vfs.cache.nummisszaps**

No explanation provided, as of yet.

**vfs.cache.numposzaps**

No explanation provided, as of yet.

**vfs.cache.numposhits**

No explanation provided, as of yet.

**vfs.cache.numnegzaps**

No explanation provided, as of yet.

**vfs.cache.numneghits**

No explanation provided, as of yet.

**vfs.cache.nchstats**

VFS cache effectiveness statistics.

**vfs.cache.numcwardcalls**

No explanation provided, as of yet.

**vfs.cache.numcwardfail1**

No explanation provided, as of yet.

**vfs.cache.numcwardfail2**

No explanation provided, as of yet.

**vfs.cache.numcwardfail3**

No explanation provided, as of yet.

**vfs.cache.numcwardfail4**

No explanation provided, as of yet.

**vfs.cache.numcwardfound**

No explanation provided, as of yet.

**vfs.cache.numfullpathcalls**

No explanation provided, as of yet.

**vfs.cache.numfullpathfail1**

No explanation provided, as of yet.

**vfs.cache.numfullpathfail2**

No explanation provided, as of yet.

**vfs.cache.numfullpathfail3**

No explanation provided, as of yet.

**vfs.cache.numfullpathfail4**

No explanation provided, as of yet.

**vfs.cache.numfullpathfound**

No explanation provided, as of yet.

**vfs.write\_behind**

Cluster write-behind; 0.

**vfs.read\_max**

Cluster read-ahead max block count.

**vfs.opv\_numops**

Maximum number of operations in vop\_t vector.

**vfs.usermount**

No explanation provided, as of yet.

**vfs.numvnodes**

No explanation provided, as of yet.

**vfs.wantfreevnodes**

No explanation provided, as of yet.

**vfs.freevnodes**

No explanation provided, as of yet.

**vfs.reassignbufcalls**

No explanation provided, as of yet.

**vfs.nameileafonly**

No explanation provided, as of yet.

**vfs.timestamp\_precision**

No explanation provided, as of yet.

**vfs.confst**

List of all configured filesystems.

**vfs.nfsrv.nfsrvstats**

S,nfsrvstats.

**vfs.nfsrv.nfs\_privport**

No explanation provided, as of yet.

**vfs.nfsrv.async**

No explanation provided, as of yet.

**vfs.nfsrv.commit\_blks**

No explanation provided, as of yet.

**vfs.nfsrv.commit\_miss**

No explanation provided, as of yet.

**vfs.nfsrv.realign\_test**

No explanation provided, as of yet.

**vfs.nfsrv.realign\_count**

No explanation provided, as of yet.

**vfs.nfsrv.gatherdelay**

No explanation provided, as of yet.

**vfs.nfsrv.gatherdelay\_v3**

No explanation provided, as of yet.

**vfs.ffs.adjrefcnt**

Adjust Inode Reference Count.

**vfs.ffs.adjblkcnt**

Adjust Inode Used Blocks Count.

**vfs.ffs.freeblks**

Free Range of Blocks.

**vfs.ffs.freedirs**

Free Range of Directory Inodes.

**vfs.ffs.freefiles**

Free Range of File Inodes.

**vfs.ffs.setflags**

Change Filesystem Flags.

**vfs.ffs.doasyncfree**

No explanation provided, as of yet.

**vfs.ffs.doreallocblks**

No explanation provided, as of yet.

**SEE ALSO**

`sysctl(8)`

**AUTHORS**

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