

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**hw.machine**

Machine class.

hw.model

Machine model.

hw.ncpu

Number of active CPUs.

hw.byteorder

System byte order.

hw.physmem

No explanation provided, as of yet.

hw.usermem

No explanation provided, as of yet.

hw.pagesize

System memory page size.

hw.floatingpoint

Floatingpoint instructions executed in hardware.

hw.machine_arch

System architecture.

hw.ata.ata_dma

ATA disk DMA mode control.

hw.ata.wc

ATA disk write caching.

hw.ata.atapi_dma

ATAPI device DMA mode control.

hw.fxp_rnr

fxp rnr events.

hw.fxp_noflow

fxp flow control disabled.

hw.pci.enable_io_modes

Enable I/O and memory bits in the config register. Some BIOSes do not.

enable these bits correctly. We'd like to do this all the time, but there are some peripherals that this causes problems with.

hw.pci.allow_unsupported_io_range

Allows the PCI Bridge to pass through an unsupported memory range assigned by the BIOS..

hw.pci.irq_override_mask

Mask of allowed irqs to try to route when it has no good clue about.

which irqs it should use.

hw.intrnames

Interrupt Names.

hw.intrent

Interrupt Counts.

hw.availpages

No explanation provided, as of yet.

hw.bus.devctl_disable

devctl disable.

hw.bus.info

bus-related data.

hw.bus.devices

system device tree.

hw.bus.rman

kernel resource manager.

hw.kbd.keymap_restrict_change

restrict ability to change keymap.

hw.syscons.saver.keyonly

screen saver interrupted by input only.

hw.syscons.bell

enable bell.

hw.syscons.sc_no_suspend_vtswitch

Disable VT switch before suspend..

hw.clockrate

CPU instruction clock rate.

hw.instruction_sse

SIMD/MMX2 instructions available in CPU.

hw.acpi.supported_sleep_state

No explanation provided, as of yet.

hw.acpi.power_button_state

No explanation provided, as of yet.

hw.acpi.sleep_button_state

No explanation provided, as of yet.

hw.acpi.lid_switch_state

No explanation provided, as of yet.

hw.acpi.standby_state

No explanation provided, as of yet.

hw.acpi.suspend_state

No explanation provided, as of yet.

hw.acpi.sleep_delay

sleep delay.

hw.acpi.s4bios

S4BIOS mode.

hw.acpi.verbose

verbose mode.

hw.acpi.disable_on_poweroff

ACPI subsystem disable on poweroff.

hw.acpi.reset_video

Call the VESA reset BIOS vector on the resume path.

hw.acpi.cpu.max_speed

maximum CPU speed.

hw.acpi.cpu.current_speed

current CPU speed.

hw.acpi.cpu.performance_speed

No explanation provided, as of yet.

hw.acpi.cpu.economy_speed

No explanation provided, as of yet.

hw.fxp0.int_delay

FXP driver receive interrupt microcode bundling delay.

hw.fxp0.bundle_max

FXP driver receive interrupt microcode bundle size limit.

hw.fxp1.int_delay

FXP driver receive interrupt microcode bundling delay.

hw.fxp1.bundle_max

FXP driver receive interrupt microcode bundle size limit.

SEE ALSO

`sysctl(8)`

AUTHORS

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