Home > Linux kernel parameters



Never reboot Linux again.

Stop putting off security updates! Get up-to-date, right now.

Drivers For Acpi Download

Download Driver Whiz to Update Your Drivers For Acpi in Seconds

The following is a consolidated list of the kernel parameters as implemented (mostly) by the __setup() macro and sorted into English Dictionary order (defined as ignoring all punctuation and sorting digits before letters in a case insensitive manner), and with descriptions where known.

Module parameters for loadable modules are specified only as the parameter name with optional '=' and value as appropriate, such as:

modprobe usbcore blinkenlights=1

Module parameters for modules that are built into the kernel image are specified on the kernel command line with the module name plus '.' plus parameter name, with '=' and value if appropriate, such as:

usbcore.blinkenlights=1

The text in square brackets at the beginning of the description states the restrictions on the kernel for the said kernel parameter to be valid. The restrictions referred to are that the relevant option is valid if:

```
ACPI support is enabled.
ACPT
ALSA
        ALSA sound support is enabled.
APIC
        APIC support is enabled.
APM
        Advanced Power Management support is enabled.
        Appropriate AX.25 support is enabled.
AX25
        Appropriate CD support is enabled.
CD
DEVES
        devfs support is enabled.
DRM
        Direct Rendering Management support is enabled.
        BIOS Enhanced Disk Drive Services (EDD) is enabled
EDD
EFI
        EFI Partitioning (GPT) is enabled
        EIDE/ATAPI support is enabled.
EIDE
        The frame buffer device is enabled.
FΒ
        Appropriate hardware is enabled.
HW
IA-32
        IA-32 aka i386 architecture is enabled.
        IA-64 architecture is enabled.
IA-64
IOSCHED More than one I/O scheduler is enabled.
IP PNP
        IP DHCP, BOOTP, or RARP is enabled.
ISAPNP
        ISA PnP code is enabled.
ISDN
        Appropriate ISDN support is enabled.
JOY
        Appropriate joystick support is enabled.
        Printer support is enabled.
LP
LOOP
        Loopback device support is enabled.
        M68k architecture is enabled.
M68k
                These options have more detailed description inside of
                Documentation/m68k/kernel-options.txt.
MCA
        MCA bus support is enabled.
        MDA console support is enabled.
MDA
        Appropriate mouse support is enabled.
MTD
        MTD support is enabled.
        Appropriate network support is enabled.
NET
MIIMA
        NUMA support is enabled.
NFS
        Appropriate NFS support is enabled.
oss
        OSS sound support is enabled.
PARIDE
        The ParIDE subsystem is enabled.
        The PA-RISC architecture is enabled.
PARISC
        PCI bus support is enabled.
PCI
        The PCMCIA subsystem is enabled.
PCMCIA
PNP
        Plug & Play support is enabled.
PPC
        PowerPC architecture is enabled.
PPT
        Parallel port support is enabled.
        Appropriate PS/2 support is enabled. RAM disk support is enabled.
PS2
RAM
S390
        S390 architecture is enabled.
SCSI
        Appropriate SCSI support is enabled.
                A lot of drivers has their options described inside of
                Documentation/scsi/.
SELINUX SELinux support is enabled.
        Serial support is enabled.
SERIAL
        The kernel is an SMP kernel.
SMP
SPARC
        Sparc architecture is enabled.
SWSUSP
        Software suspend is enabled.
```

```
TS
        Appropriate touchscreen support is enabled.
IISB
        USB support is enabled.
USBHID
        USB Human Interface Device support is enabled.
        Video For Linux support is enabled.
V4L
VGA
        The VGA console has been enabled.
VТ
        Virtual terminal support is enabled.
WDT
        Watchdog support is enabled.
        IBM PC/XT MFM hard disk support is enabled.
ΧТ
        X86-64 architecture is enabled.
                More X86-64 boot options can be found in
                Documentation/x86_64/boot-options.txt .
```

In addition, the following text indicates that the option:

```
BUGS= Relates to possible processor bugs on the said processor.

KNL Is a kernel start-up parameter.

BOOT Is a boot loader parameter.
```

Parameters denoted with BOOT are actually interpreted by the boot loader, and have no meaning to the kernel directly. Do not modify the syntax of boot loader parameters without extreme need or coordination with <Documentation/i386/boot.txt>.

Note that ALL kernel parameters listed below are CASE SENSITIVE, and that a trailing = on the name of any parameter states that that parameter will be entered as an environment variable, whereas its absence indicates that it will appear as a kernel argument readable via /proc/cmdline by programs running once the system is up.

OSEck - RTOS for DSP's

Reliable, high performance small footprint kernel for DSPs www.Enea.com/ose

Embedded Panel

RISC, x86 Embedded Systems TFT LCD Panel, Display Solutions

Gumstix Overo COM w OMAP

OMAP3503 / OMAP3530 SBC tiny, lower power, fanless modules www.gumstix.net/OMAP

```
53c7xx=
                [HW,SCSI] Amiga SCSI controllers
                See header of drivers/scsi/53c7xx.c.
                See also Documentation/scsi/ncr53c7xx.txt.
acpi=
                [HW, ACPI] Advanced Configuration and Power Interface
                Format: { force | off | ht | strict | noirq }
                force -- enable ACPI if default was off
                off -- disable ACPI if default was on
                noirq -- do not use ACPI for IRQ routing
                ht -- run only enough ACPI to enable Hyper Threading
                strict -- Be less tolerant of platforms that are not
                        strictly ACPI specification compliant.
                See also Documentation/pm.txt, pci=noacpi
                [HW,ACPI] Sleep options
acpi sleep=
                Format: { s3_bios, s3_mode }
                See Documentation/power/video.txt
                [HW, ACPI] ACPI System Control Interrupt trigger mode
acpi sci=
                Format: { level | edge | high | low }
acpi_irq_balance [HW,ACPI]
                ACPI will balance active IRQs
                default in APIC mode
acpi_irq_nobalance [HW,ACPI]
                ACPI will not move active IRQs (default)
                default in PIC mode
acpi_irq_pci=
                [HW, ACPI] If irq_balance, clear listed IRQs for
                use by PCI
                Format: <irq>,<irq>...
                [HW, ACPI] If irq_balance, mark listed IRQs used by ISA
acpi_irq_isa=
                Format: <irg>,<irg>...
acpi_osi=
                [HW, ACPI] empty param disables _OSI
acpi_serialize [HW,ACPI] force serialization of AML methods
acpi_skip_timer_override [HW,ACPI]
                Recognize and ignore IRQ0/pin2 Interrupt Override.
                For broken nForce2 BIOS resulting in XT-PIC timer.
acpi_dbg_layer= [HW,ACPI]
```

Format: <int>

Each bit of the <int> indicates an ACPI debug layer, 1: enable, 0: disable. It is useful for boot time debugging. After system has booted up, it can be set via /proc/acpi/debug_layer.

acpi_dbg_level= [HW,ACPI]

Format: <int>

Each bit of the <int> indicates an ACPI debug level, 1: enable, 0: disable. It is useful for boot time debugging. After system has booted up, it can be set via /proc/acpi/debug_level.

acpi_fake_ecdt [HW,ACPI] Workaround failure due to BIOS lacking ECDT

acpi_generic_hotkey [HW,ACPI]

Allow consolidated generic hotkey driver to override platform specific driver. See also Documentation/acpi-hotkey.txt.

enable_timer_pin_1 [i386,x86-64]

Enable PIN 1 of APIC timer

Can be useful to work around chipset bugs (in particular on some ATI chipsets). The kernel tries to set a reasonable default.

disable_timer_pin_1 [i386,x86-64]

Disable PIN 1 of APIC timer

Can be useful to work around chipset bugs.

ad1816= [HW,OSS]

Format: <io>,<irq>,<dma>,<dma2>

See also Documentation/sound/oss/AD1816.

ad1848= [HW.OSS]

Format: <io>,<irq>,<dma>,<dma2>,<type>

adlib= [HW,OSS] Format: <io>

advansvs= [HW.SCSI]

See header of drivers/scsi/advansys.c.

advwdt= [HW,WDT] Advantech WDT Format: <iostart>,<iostop>

aedsp16= [HW,OSS] Audio Excel DSP 16

Format: <io>,<irq>,<dma>,<mss_io>,<mpu_io>,<mpu_irq>See also header of sound/oss/aedsp16.c.

aha152x= [HW.SCSI]

See Documentation/scsi/aha152x.txt.

aha1542= [HW,SCSI]

Format: <portbase>[,<buson>,<busoff>[,<dmaspeed>]]

aic7xxx= [HW,SCSI]

See Documentation/scsi/aic7xxx.txt.

[HW,SCSI] aic79xx=

See Documentation/scsi/aic79xx.txt.

amijoy.map= [HW, JOY] Amiga joystick support

Map of devices attached to JOYODAT and JOY1DAT Format: <a>,

See also Documentation/kernel/input/joystick.txt

[HW,JOY] Analog joystick and gamepad support analog.map=

Specifies type or capabilities of an analog joystick

connected to one of 16 gameports Format: <type1>,<type2>,..<type16>

[HW,SPARC] apc=

Power management functions (SPARCstation-4/5 + deriv.)

Format: noidle

Disable APC CPU standby support. SPARCstation-Fox does not play well with APC CPU idle - disable it if you have

APC and your system crashes randomly.

apic= [APIC,i386] Change the output verbosity whilst booting

Format: { quiet (default) | verbose | debug } Change the amount of debugging information output

when initialising the APIC and IO-APIC components.

[APM] Advanced Power Management apm=

See header of arch/i386/kernel/apm.c.

applicom= [HW]

Format: <mem>,<irq>

[HW, NET] ARCnet - "RIM I" (entirely mem-mapped) cards arcrimi=

Format: <io>,<irq>,<nodeID>

ataflop= [HW.M68k]

atarimouse= [HW, MOUSE] Atari Mouse atascsi= [HW,SCSI] Atari SCSI

atkbd.extra= [HW] Enable extra LEDs and keys on IBM RapidAccess,

EzKey and similar keyboards

atkbd.reset= [HW] Reset keyboard during initialization

atkbd.set= [HW] Select keyboard code set

Format: $\langle int \rangle$ (2 = AT (default), 3 = PS/2)

atkbd.scroll= [HW] Enable scroll wheel on MS Office and similar

keyboards

atkbd.softraw= [HW] Choose between synthetic and real raw mode

Format: <bool> (0 = real, 1 = synthetic (default))

atkbd.softrepeat= [HW]

Use software keyboard repeat

autotest [IA64]

awe= [HW,OSS] AWE32/SB32/AWE64 wave table synth

Format: <io>,<memsize>,<isapnp>

aztcd= [HW,CD] Aztech CD268 CDROM driver

Format: <io>,0x79 (?)

baycom_epp= [HW, AX25]

Format: <io>,<mode>

baycom par= [HW, AX25] BayCom Parallel Port AX.25 Modem

Format: <io>,<mode>

See header of drivers/net/hamradio/baycom_par.c.

baycom_ser_fdx= [HW,AX25]

BayCom Serial Port AX.25 Modem (Full Duplex Mode)

Format: <io>, <irq>, <mode>[, <baud>]

See header of drivers/net/hamradio/baycom ser fdx.c.

baycom_ser_hdx= [HW,AX25]

BayCom Serial Port AX.25 Modem (Half Duplex Mode)

Format: <io>,<irq>,<mode>

See header of drivers/net/hamradio/baycom_ser_hdx.c.

blkmtd_device= [HW,MTD]

blkmtd_erasesz= blkmtd ro= blkmtd_bs= blkmtd_count=

[HW,V4L] bttv (bt848 + bt878 based grabber cards) bttv.card= bttv.radio= Most important insmod options are available as

kernel args too.

bttv.pll= See Documentation/video4linux/bttv/Insmod-options bttv.tuner= and Documentation/video4linux/bttv/CARDLIST

BusLogic= [HW.SCSI]

See drivers/scsi/BusLogic.c, comment before function

BusLogic_ParseDriverOptions().

c101= [NET] Moxa C101 synchronous serial card

cachesize= [BUGS=IA-32] Override level 2 CPU cache size detection.

Sometimes CPU hardware bugs make them report the cache size incorrectly. The kernel will attempt work arounds to fix known problems, but for some CPUs it is not possible to determine what the correct size should be.

```
This option provides an override for these situations.
cdu31a=
                 Format: <io>,<irq>[,PAS]
                 See header of drivers/cdrom/cdu31a.c.
chandev=
                 [HW,NET] Generic channel device initialisation
checkreqprot
                 [SELINUX] Set initial checkreqprot flag value.
                 Format: { "0" | "1" }
                 See security/selinux/Kconfig help text.
                 0 -- check protection applied by kernel (includes
                         any implied execute protection).
                 1 -- check protection requested by application.
                 Default value is set via a kernel config option.
                 Value can be changed at runtime via
                         /selinux/checkreqprot.
                 [BUGS=IA-32,HW] gettimeofday timesource override.
clock=
                 Forces specified timesource (if avaliable) to be used
                 when calculating gettimeofday(). If specicified
                 timesource is not avalible, it defaults to PIT.
                 Format: { pit | tsc | cyclone | pmtmr }
                 [IA-32, HPET] option to disable HPET and use PIT.
hpet=
                 Format: disable
cm206=
                 [HW,CD]
                 Format: { auto | [<io>,][<irq>] }
                 [HW, NET] ARCnet - COM20020 chipset
com20020=
                 Format:
                 <io>[,<irq>[,<nodeID>[,<backplane>[,<ckp>[,<timeout>]]]]]
com90io=
                 [HW, NET] ARCnet - COM90xx chipset (IO-mapped buffers)
                 Format: <io>[,<irq>]
com90xx=
                 [HW,NET]
                 ARCnet - COM90xx chipset (memory-mapped buffers)
                 Format: <io>[,<irq>[,<memstart>]]
condev=
                 [HW,S390] console device
conmode=
console=
                 [KNL] Output console device and options.
        tty<n> Use the virtual console device <n>.
        ttyS<n>[,options]
                 Use the specified serial port. The options are of the form "bbbbpn", where "bbbb" is the baud rate, "p" is parity ("n", "o", or "e"), and "n" is bits.
                 Default is "9600n8".
                 See also Documentation/serial-console.txt.
        uart, io, <addr>[,options]
        uart,mmio,<addr>[,options]
                 Start an early, polled-mode console on the 8250/16550
                 UART at the specified I/O port or MMIO address,
                 switching to the matching ttyS device later. The
                 options are the same as for ttyS, above.
cpcihp_generic= [HW,PCI] Generic port I/O CompactPCI driver
                 Format:
                 <first_slot>,<last_slot>,<port>,<enum_bit>[,<debug>]
cpia_pp=
                 [HW,PPT]
                 Format: { parport<nr> | auto | none }
crashkernel=nn[KMG]@ss[KMG]
                 [KNL] Reserve a chunk of physical memory to
                 hold a kernel to switch to with kexec on panic.
cs4232=
                 [HW,OSS]
                 Format: <io>,<irq>,<dma>,<dma2>,<mpuio>,<mpuirq>
cs89x0 dma=
                 [HW.NET]
                 Format: <dma>
cs89x0_media=
                 [HW,NET]
                 Format: { rj45 | aui | bnc }
```

cyclades= [HW,SERIAL] Cyclades multi-serial port adapter.

dasd= [HW, NET]

See header of drivers/s390/block/dasd_devmap.c.

db9.dev[2|3] = [HW, JOY] Multisystem joystick support via parallel port

(one device per port)
Format: <port#>,<type>

See also Documentation/input/joystick-parport.txt

debug [KNL] Enable kernel debugging (events log level).

decnet= [HW, NET]

Format: <area>[,<node>]

See also Documentation/networking/decnet.txt.

devfs= [DEVFS]

See Documentation/filesystems/devfs/boot-options.

dhash_entries= [KNL]

Set number of hash buckets for dentry cache.

digi= [HW, SERIAL]

IO parameters + enable/disable command.

digiepca= [HW,SERIAL]

See drivers/char/README.epca and Documentation/digiepca.txt.

dmascc= [HW,AX25,SERIAL] AX.25 Z80SCC driver with DMA

support available.

Format: <io_dev0>[,<io_dev1>[,..<io_dev32>]]

dmasound= [HW,OSS] Sound subsystem buffers

dscc4.setup= [NET]

dtc3181e= [HW,SCSI]

earlyprintk= [IA-32,X86-64]

earlyprintk=vga

earlyprintk=serial[,ttySn[,baudrate]]

Append ",keep" to not disable it when the real console

takes over.

Only vga or serial at a time, not both.

Currently only ttyS0 and ttyS1 are supported.

Interaction with the standard serial driver is not

very good.

The VGA output is eventually overwritten by the real

console.

eata= [HW,SCSI]
eda= [HW,PS2]
edb= [HW,PS2]

edd= [EDD]

Format: {"of[f]" | "sk[ipmbr]"}
See comment in arch/i386/boot/edd.S

eicon= [HW, ISDN]

Format: <id>,<membase>,<irq>

eisa_irq_edge= [PARISC,HW]

See header of drivers/parisc/eisa.c.

elanfreq= [IA-32]

See comment before function elanfreq_setup() in

arch/i386/kernel/cpu/cpufreq/elanfreq.c.

elevator= [IOSCHED]

Format: {"as" | "cfq" | "deadline" | "noop"} See Documentation/block/as-iosched.txt and

Documentation/block/deadline-iosched.txt for details.

elfcorehdr= [IA-32]

Specifies physical address of start of kernel core

image elf header.

See Documentation/kdump.txt for details.

[SELINUX] Set initial enforcing status. Format: {"0" | "1"} enforcing

See security/selinux/Kconfig help text. 0 -- permissive (log only, no denials).

1 -- enforcing (deny and log).

Default value is 0.

Value can be changed at runtime via /selinux/enforce.

es1370= [HW,OSS]

Format: <lineout>[,<micbias>]

See also header of sound/oss/es1370.c.

es1371= [HW,OSS]

Format: <spdif>,[<nomix>,[<amplifier>]] See also header of sound/oss/es1371.c.

[HW,NET] Ethernet cards parameters ether=

This option is obsoleted by the "netdev=" option, which has equivalent usage. See its documentation for details.

eurwdt= [HW,WDT] Eurotech CPU-1220/1410 onboard watchdog.

Format: <io>[,<irq>]

fd mcs= [HW,SCSI]

See header of drivers/scsi/fd_mcs.c.

fdomain= [HW,SCSI]

See header of drivers/scsi/fdomain.c.

floppy= L HM 1

See Documentation/floppy.txt.

ftape= [HW] Floppy Tape subsystem debugging options.

See Documentation/ftape.txt.

qamecon.map[2|3]=

[HW,JOY] Multisystem joystick and NES/SNES/PSX pad support via parallel port (up to 5 devices per port) Format: <port#>,<pad1>,<pad2>,<pad3>,<pad4>,<pad5> See also Documentation/input/joystick-parport.txt

[HW,DRM] gamma=

[HW,SCSI] adth=

See header of drivers/scsi/gdth.c.

[EFI] Forces disk with valid GPT signature but apt invalid Protective MBR to be treated as GPT.

[HW,CD] ascd= Format: <io>

[NET] MIPS GT96100 Advanced Communication Controller gt96100eth=

[HW.OSS] qus=

Format: <io>,<irq>,<dma>,<dma16>

gvp11= [HW,SCSI]

hashdist= [KNL, NUMA] Large hashes allocated during boot are distributed across NUMA nodes. Defaults on

> for IA-64, off otherwise. Format: 0 | 1 (for off | on)

hcl= [IA-64] SGI's Hardware Graph compatibility layer

hd= [EIDE] (E)IDE hard drive subsystem geometry

Format: <cyl>,<head>,<sect>

hd?= [HW] (E)IDE subsystem See Documentation/ide.txt. hd?lun=

highmem=nn[KMG] [KNL,BOOT] forces the highmem zone to have an exact

size of <nn>. This works even on boxes that have no highmem otherwise. This also works to reduce highmem

size on bigger boxes.

hisax= [HW, ISDN]

See Documentation/isdn/README.HiSax.

hugepages= [HW,IA-32,IA-64] Maximal number of HugeTLB pages.

noirqbalance [IA-32,SMP,KNL] Disable kernel irq balancing

(Don't attempt to blink the leds)

i8042.noaux [HW] Don't check for auxiliary (== mouse) port

i8042.nokbd [HW] Don't check/create keyboard port

i8042.nomux [HW] Don't check presence of an active multiplexing

controller

i8042.nopnp [HW] Don't use ACPIPnP / PnPBIOS to discover KBD/AUX

controllers

i8042.panicblink=

[HW] Frequency with which keyboard LEDs should blink when kernel panics (default is 0.5 sec)

i8042.reset [HW] Reset the controller during init and cleanup

i8042.unlock [HW] Unlock (ignore) the keylock

i810= [HW, DRM]

i8k.ignore_dmi [HW] Continue probing hardware even if DMI data

indicates that the driver is running on unsupported

nardware.

i8k.force [HW] Activate i8k driver even if SMM BIOS signature

does not match list of supported models.

i8k.power_status

[HW] Report power status in /proc/i8k

(disabled by default)

i8k.restricted [HW] Allow controlling fans only if SYS_ADMIN

capability is set.

ibmmcascsi= [HW,MCA,SCSI] IBM MicroChannel SCSI adapter

See Documentation/mca.txt.

icn= [HW, ISDN]

Format: <io>[,<membase>[,<icn_id>[,<icn_id2>]]]

ide= [HW] (E)IDE subsystem

Format: ide=nodma or ide=doubler or ide=reverse

See Documentation/ide.txt.

ide?= [HW] (E)IDE subsystem

Format: ide?=noprobe or chipset specific parameters.

See Documentation/ide.txt.

idebus= [HW] (E)IDE subsystem - VLB/PCI bus speed

See Documentation/ide.txt.

idle= [HW]

Format: idle=poll or idle=halt

ihash entries= [KNL]

Set number of hash buckets for inode cache.

in2000= [HW.SCSI]

See header of drivers/scsi/in2000.c.

init= [KNL]

Format: <full_path>

Run specified binary instead of /sbin/init as init

process.

initcall_debug [KNL] Trace initcalls as they are executed. Useful

for working out where the kernel is dying during

startup.

initrd= [BOOT] Specify the location of the initial ramdisk

inport.irq= [HW] Inport (ATI XL and Microsoft) busmouse driver

Format: <irq>

inttest= [IA64]

io7= [HW] IO7 for Marvel based alpha systems

See comment before marvel_specify_io7 in

arch/alpha/kernel/core_marvel.c.

[IP_PNP] ip=

See Documentation/nfsroot.txt.

[HW] Set IO/IRQ pairs for up to 4 IntelliPort boards ip2= See comment before ip2_setup() in drivers/char/ip2.c.

[HW,SCSI] Adaptec / IBM ServeRAID controller ips=

See header of drivers/scsi/ips.c.

irqfixup

When an interrupt is not handled search all handlers for it. Intended to get systems with badly broken

firmware running.

irqpoll

When an interrupt is not handled search all handlers

for it. Also check all handlers each timer

interrupt. Intended to get systems with badly broken

firmware running.

isapnp=

Format: <RDP>,<reset>,<pci scan>,<verbosity>

isolcpus= [KNL,SMP] Isolate CPUs from the general scheduler.

Format: <cpu number>,...,<cpu number>

This option can be used to specify one or more CPUs to isolate from the general SMP balancing and scheduling algorithms. The only way to move a process onto or off an "isolated" CPU is via the CPU affinity syscalls. <cpu number> begins at 0 and the maximum value is

"number of CPUs in system - 1".

This option is the preferred way to isolate CPUs. The alternative -- manually setting the CPU mask of all tasks in the system -- can cause problems and

suboptimal load balancer performance.

isp16= [HW,CD]

Format: <io>,<irq>,<dma>,<setup>

iucv= [HW,NET]

[HW,JOY] Analog joystick is=

See Documentation/input/joystick.txt.

keepinitrd [HW,ARM]

kstack=N [IA-32,X86-64] Print N words from the kernel stack

in oops dumps.

12cr=

[IA-32,APIC] Enable the local APIC even if BIOS lapic

disabled it.

lasi= [HW,SCSI] PARISC LASI driver for the 53c700 chip

Format: addr:<io>,irq:<irq>

llsc*= [IA64] See function print_params() in

arch/ia64/sn/kernel/llsc4.c.

[RAM] List of ramdisks to load from floppy load_ramdisk=

See Documentation/ramdisk.txt.

lockd.udpport= [NFS]

lockd.tcpport= [NFS]

logibm.irq= [HW, MOUSE] Logitech Bus Mouse Driver

Format: <irg>

All Kernel Messages with a loglevel smaller than the loglevel=

console loglevel will be printed to the console. It can also be changed with klogd or other programs. The

loglevels are defined as follows:

0 (KERN EMERG) system is unusable

1 (KERN ALERT) action must be taken immediately

2 (KERN_CRIT) critical conditions 3 (KERN_ERR) error conditions 4 (KERN_WARNING) warning conditions

5 (KERN_NOTICE) normal but significant condition

6 (KERN_INFO) informational 7 (KERN_DEBUG) debug-level messages

log buf len=n

Sets the size of the printk ring buffer, in bytes. Format: { n \mid nk \mid nM } n must be a power of two. The default size is set in the kernel config file.

lp=0 [LP]
lp=port[,port...]
lp=reset

lp=auto

Specify parallel ports to use, e.g, lp=none,parport0 (lp0 not configured, lp1 uses first parallel port). 'lp=0' disables the printer driver. 'lp=reset' (which can be specified in addition to the ports) causes attached printers to be reset. Using lp=port1,port2,... specifies the parallel ports to associate lp devices with, starting with lp0. A port specification may be 'none' to skip that lp device, or a parport name such as 'parport0'. Specifying 'lp=auto' instead of a port specification list means that device IDs from each port should be examined, to see if an IEEE 1284-compliant printer is attached; if so, the driver will manage that printer.

lpj=n [KNL]

Sets loops_per_jiffy to given constant, thus avoiding time-consuming boot-time autodetection (up to 250 ms per CPU). O enables autodetection (default). To determine the correct value for your kernel, boot with normal autodetection and see what value is printed. Note that on SMP systems the preset will be applied to all CPUs, which is likely to cause problems if your CPUs need significantly divergent settings. An incorrect value will cause delays in the kernel to be wrong, leading to unpredictable I/O errors and other breakage. Although unlikely, in the extreme case this might damage your hardware.

See also header of drivers/char/lp.c.

ltpc= [NET]

Format: <io>,<irq>,<dma>

mac5380= [HW,SCSI] Format:

<can_queue>,<cmd_per_lun>,<sg_tablesize>,<hostid>,<use_tags>

mac53c9x= [HW,SCSI] Format:

cnum_esps>,<disconnect>,<nosync>,<can_queue>,<cmd_per_lun>,<sg_tablesize>,<hostid>,<use_tags>

machvec= [IA64] Force the use of a particular machine-vector

(machvec) in a generic kernel.
Example: machvec=hpzx1_swiotlb

mad16= [HW,OSS] Format:

<io>,<irq>,<dma>,<dma16>,<mpu_io>,<mpu_irq>,<joystick>

maui= [HW,OSS]

Format: <io>,<irq>

max_loop= [LOOP] Maximum number of loopback devices that can

be mounted
Format: <1-256>

maxcpus= [SMP] Maximum number of processors that an SMP kernel

should make use of

 $\verb|max_addr=[KMG]| \quad [KNL,BOOT,ia64] \ \, \verb|All physical memory greater than or \\$

equal to this physical address is ignored.

max_luns= [SCSI] Maximum number of LUNs to probe.

Should be between 1 and 2^32-1.

max_report_luns=

[SCSI] Maximum number of LUNs received.

Should be between 1 and 16384.

mca-pentium [BUGS=IA-32]

mcatest= [IA-64]

mcd= [HW,CD]

Format: <port>,<irq>,<mitsumi_bug_93_wait>

mcdx= [HW,CD]

mce [IA-32] Machine Check Exception

md= [HW] RAID subsystems devices and level

See Documentation/md.txt.

mdacon= [MDA]

Format: <first>,<last>

Specifies range of consoles to be captured by the MDA.

mem=nn[KMG] [KNL,BOOT] Force usage of a specific amount of memory

Amount of memory to be used when the kernel is not able

to see the whole system memory or for test.

[IA-32] Use together with memmap= to avoid physical address space collisions. Without memmap= PCI devices could be placed at addresses belonging to unused RAM.

 ${\tt mem=nopentium} \qquad \hbox{\tt [BUGS=IA-32] Disable usage of 4MB pages for kernel}$

memory.

memmap=exactmap [KNL,IA-32] Enable setting of an exact

E820 memory map, as specified by the user.

Such memmap=exactmap lines can be constructed based on BIOS output or other requirements. See the ${\tt memmap=nn@ss}$

option description.

memmap=nn[KMG]@ss[KMG]

[KNL] Force usage of a specific region of memory Region of memory to be used, from ss to ss+nn.

memmap=nn[KMG]#ss[KMG]

[KNL,ACPI] Mark specific memory as ACPI data. Region of memory to be used, from ss to ss+nn.

memmap=nn[KMG]\$ss[KMG]

[KNL,ACPI] Mark specific memory as reserved. Region of memory to be used, from ss to ss+nn.

meye.*= [HW] Set MotionEye Camera parameters

See Documentation/video4linux/meye.txt.

mga= [HW,DRM]

mousedev.tap_time=

[MOUSE] Maximum time between finger touching and leaving touchpad surface for touch to be considered a tap and be reported as a left button click (for

touchpads working in absolute mode only).

Format: <msecs>

mousedev.xres= [MOUSE] Horizontal screen resolution, used for devices

reporting absolute coordinates, such as tablets

mousedev.yres= [MOUSE] Vertical screen resolution, used for devices

reporting absolute coordinates, such as tablets

mpu401= [HW,OSS]

Format: <io>,<irq>

MTD_Partition= [MTD]

Format: <name>,<region-number>,<size>,<offset>

MTD_Region= [MTD] Format:

<name>,<region-number>[,<base>,<size>,<buswidth>,<altbuswidth>]

mtdparts= [MTD

See drivers/mtd/cmdline.c.

mtouchusb.raw_coordinates=

[HW] Make the MicroTouch USB driver use raw coordinates

('y', default) or cooked coordinates ('n')

n2= [NET] SDL Inc. RISCom/N2 synchronous serial card

NCR_D700= [HW,SCSI]

See header of drivers/scsi/NCR_D700.c.

ncr5380= [HW,SCSI]
ncr53c400= [HW,SCSI]
ncr53c400a= [HW,SCSI]

ncr53c406a= [HW,SCSI] ncr53c8xx= [HW,SCSI]

netdev= [NET] Network devices parameters

Format: <irq>,<io>,<mem_start>,<mem_end>,<name> Note that mem_start is often overloaded to mean

something different and driver-specific.

This usage is only documented in each driver source

file if at all.

nfsaddrs= [NFS]

See Documentation/nfsroot.txt.

nfsroot= [NFS] nfs root filesystem for disk-less boxes.

See Documentation/nfsroot.txt.

nmi_watchdog= [KNL,BUGS=IA-32] Debugging features for SMP kernels

no387 [BUGS=IA-32] Tells the kernel to use the 387 maths emulation library even if a 387 maths coprocessor

is present.

noalign [KNL, ARM]

noapic [SMP,APIC] Tells the kernel to not make use of any

IOAPICs that may be present in the system.

noasvnc [HW,M68K] Disables async and sync negotiation for

all devices.

[PPC] Do not use BATs for mapping kernel lowmem on "Classic" PPC cores. nobats

[ARM] nocache

[HW, SCSI, M68K] Disables SCSI disconnects. nodisconnect

[IA-64] noexec

noexec [IA-32.X86-64]

noexec=on: enable non-executable mappings (default)

noexec=off: disable nn-executable mappings

nofxsr [BUGS=IA-32] nohlt [BUGS=ARM]

no-hlt [BUGS=IA-32] Tells the kernel that the hlt

instruction doesn't work correctly and not to

use it.

nohalt [IA-64] Tells the kernel not to use the power saving

function PAL_HALT_LIGHT when idle. This increases power-consumption. On the positive side, it reduces interrupt wake-up latency, which may improve performance in certain environments such as networked servers or

real-time systems.

noirqdebug [IA-32] Disables the code which attempts to detect and

disable unhandled interrupt sources.

noisapnp [ISAPNP] Disables ISA PnP code.

noinitrd [RAM] Tells the kernel not to load any configured

initial RAM disk.

nointroute [IA-64]

[IA-32,APIC] Do not enable or use the local APIC. nolapic

noltlbs [PPC] Do not use large page/tlb entries for kernel

lowmem mapping on PPC40x.

nomce [IA-32] Machine Check Exception

noresidual [PPC] Don't use residual data on PReP machines.

[SWSUSP] Disables resume and restores original swap noresume

space.

no-scroll [VGA] Disables scrollback.

This is required for the Braillex ib80-piezo Braille reader made by F.H. Papenmeier (Germany).

nosbagart [IA-64]

nosmp [SMP] Tells an SMP kernel to act as a UP kernel.

nosync [HW,M68K] Disables sync negotiation for all devices.

notsc [BUGS=IA-32] Disable Time Stamp Counter

nousb [USB] Disable the USB subsystem

nowb [ARM]

opl3= [HW,OSS]

Format: <io>

opl3sa= [HW,OSS]

Format: <io>,<irq>,<dma>,<dma2>,<mpu io>,<mpu irq>

opl3sa2= [HW,OSS] Format:

<io>,<irq>,<dma>,<dma2>,<mss_io>,<mpu_io>,<ymode>,<loopback>[,<isapnp>,<multiple]</pre>

oprofile.timer= [HW]

Use timer interrupt instead of performance counters

optcd= [HW,CD]
Format: <io>

osst= [HW,SCSI] SCSI Tape Driver

Format: <buffer_size>,<write_threshold>
See also Documentation/scsi/st.txt.

panic= [KNL] Kernel behaviour on panic

Format: <timeout>

parkbd.port= [HW] Parallel port number the keyboard adapter is

connected to, default is 0.

Format: <parport#>

parkbd.mode= [HW] Parallel port keyboard adapter mode of operation,

0 for XT, 1 for AT (default is AT).

Format: <mode>

parport= [HW,PPT] Specify parallel ports. 0 disables.

Format: { 0 | auto | 0xBBB[,IRQ[,DMA]] }
Use 'auto' to force the driver to use any
IRQ/DMA settings detected (the default is to
ignore detected IRQ/DMA settings because of
possible conflicts). You can specify the base
address, IRQ, and DMA settings; IRQ and DMA
should be numbers, or 'auto' (for using detected
settings on that particular port), or 'nofifo'
(to avoid using a FIFO even if it is detected).
Parallel ports are assigned in the order they
are specified on the command line, starting

with parport0.

parport_init_mode= [HW,PPT]

Configure VIA parallel port to operate in a specific mode. This is necessary on Pegasos computer where firmware has no options for setting

up parallel port mode and sets it to $\ensuremath{\mathsf{spp}}\xspace.$

Currently this function knows 686a and 8231 chips.

Format: [spp|ps2|epp|ecp|ecpepp]

pas2= [HW,OSS] Format:

<io>,<irq>,<dma>,<dma16>,<sb_io>,<sb_irq>,<sb_dma>,<sb_dma16>

pas16= [HW,SCSI]

See header of drivers/scsi/pas16.c.

pcbit= [HW,ISDN]
pcd. [PARIDE]

See header of drivers/block/paride/pcd.c.

See also Documentation/paride.txt.

 $\verb"pci=option[,option...] [PCI] various PCI subsystem options:$

off [IA-32] don't probe for the PCI bus

bios [IA-32] force use of PCI BIOS, don't access the hardware directly. Use this if your machine

has a non-standard PCI host bridge. nobios [IA-32] disallow use of PCI BIOS, only direct hardware access methods are allowed. Use this if you experience crashes upon bootup and you suspect they are caused by the BIOS. [IA-32] Force use of PCI Configuration conf1 Mechanism 1. conf2 [IA-32] Force use of PCI Configuration Mechanism 2. [IA-32] Don't sort PCI devices according to nosort order given by the PCI BIOS. This sorting is done to get a device order compatible with older kernels. biosirq [IA-32] Use PCI BIOS calls to get the interrupt routing table. These calls are known to be buggy on several machines and they hang the machine when used, but on other computers it's the only way to get the interrupt routing table. Try this option if the kernel is unable to allocate IRQs or discover secondary PCI buses on your motherboard. [IA-32] Assign address space to expansion ROMs. rom Use with caution as certain devices share address decoders between ROMs and other resources. irqmask=0xMMMM [IA-32] Set a bit mask of IRQs allowed to be assigned automatically to PCI devices. You can make the kernel exclude IRQs of your ISA cards this way. pirgaddr=0xAAAAA [IA-32] Specify the physical address of the PIRQ table (normally generated by the BIOS) if it is outside the F0000h-100000h range. lastbus=N [IA-32] Scan all buses thru bus #N. Can be useful if the kernel is unable to find your secondary buses and you want to tell it explicitly which ones they are. assign-busses [IA-32] Always assign all PCI bus numbers ourselves, overriding whatever the firmware may have done. [IA-32] Honor the possible IRQ mask stored usepiramask in the BIOS \$PIR table. This is needed on some systems with broken BIOSes, notably some HP Pavilion N5400 and Omnibook XE3 notebooks. This will have no effect if ACPI IRQ routing is enabled. noacpi [IA-32] Do not use ACPI for IRQ routing or for PCI scanning. Do IRQ routing for all PCI devices. routeira This is normally done in pci_enable_device(), so this option is a temporary workaround for broken drivers that don't call it. firmware [ARM] Do not re-enumerate the bus but instead just use the configuration from the bootloader. This is currently used on IXP2000 systems where the bus has to be configured a certain way for adjunct CPUs. [HW, PCMCIA] BadgePAD 4 [PARIDE] See Documentation/paride.txt. [PARISC, HW] Disable/Enable PDC Chassis Status codes at pdcchassis= boot time. Format: { 0 | 1 } See arch/parisc/kernel/pdc_chassis.c [PARIDE] See Documentation/paride.txt. [PARIDE] See Documentation/paride.txt. [SMP,APIC] Manual mp-table setup See Documentation/i386/IO-APIC.txt. [PPT,NET] Parallel port network link Format: { parport<nr> | timid | 0 } See also Documentation/parport.txt. pnpacpi= [ACPI]

pcmv=

pd.

pf.

pq.

pirq=

plip=

```
{ off }
pnpbios=
                [ISAPNP]
                 { on | off | curr | res | no-curr | no-res }
pnp reserve irq=
                 [ISAPNP] Exclude IRQs for the autoconfiguration
pnp reserve dma=
                 [ISAPNP] Exclude DMAs for the autoconfiguration
pnp_reserve_io= [ISAPNP] Exclude I/O ports for the autoconfiguration
                Ranges are in pairs (I/O port base and size).
pnp reserve mem=
                [ISAPNP] Exclude memory regions for the
                autoconfiguration.
                Ranges are in pairs (memory base and size).
profile=
                 [KNL] Enable kernel profiling via /proc/profile
                 Format: [schedule,]<number>
                Param: "schedule" - profile schedule points.
                Param: <number> - step/bucket size as a power of 2 for
                         statistical time based profiling.
processor.max_cstate=
                        [HW,ACPI]
                Limit processor to maximum C-state
                max cstate=9 overrides any DMI blacklist limit.
prompt_ramdisk= [RAM] List of RAM disks to prompt for floppy disk
                before loading.
                See Documentation/ramdisk.txt.
psmouse.proto=
                [HW, MOUSE] Highest PS2 mouse protocol extension to
                probe for; one of (bare|imps|exps|lifebook|any).
[HW,MOUSE] Set desired mouse report rate, in reports
psmouse.rate=
                per second.
psmouse.resetafter=
                         [HW,MOUSE]
                Try to reset the device after so many bad packets
                 (0 = never).
psmouse.resolution=
                 [HW,MOUSE] Set desired mouse resolution, in dpi.
psmouse.smartscroll=
                 [HW, MOUSE] Controls Logitech smartscroll autorepeat.
                 0 = disabled, 1 = enabled (default).
                 [HW,OSS] Personal Sound System (ECHO ESC614)
pss=
                Format:
                 <io>,<mss_io>,<mss_irq>,<mss_dma>,<mpu_io>,<mpu_irq>
pt.
                See Documentation/paride.txt.
quiet=
                [KNL] Disable log messages
r128 =
                [HW,DRM]
raid=
                 [HW,RAID]
                 See Documentation/md.txt.
                 [RAM] Sizes of RAM disks in kilobytes [deprecated]
ramdisk=
                 See Documentation/ramdisk.txt.
ramdisk_blocksize=
                         [RAM]
                See Documentation/ramdisk.txt.
                 [RAM] Sizes of RAM disks in kilobytes
ramdisk_size=
                New name for the ramdisk parameter.
                See Documentation/ramdisk.txt.
rdinit=
                 [KNL]
                 Format: <full_path>
                Run specified binary instead of /init from the ramdisk,
                used for early userspace startup. See initrd.
                 [BUGS=IA-32,BUGS=ARM,BUGS=IA-64] Rebooting mode
reboot=
                Format: <reboot_mode>[,<reboot_mode2>[,...]]
                See arch/*/kernel/reboot.c.
reserve=
                 [KNL,BUGS] Force the kernel to ignore some iomem area
resume=
                 [SWSUSP]
```

Specify the partition device for software suspend

rhash_entries= [KNL,NE

Set number of hash buckets for route cache

riscom8= [HW, SERIAL]

Format: <io_board1>[,<io_board2>[,...<io_boardN>]]

ro [KNL] Mount root device read-only on boot

root= [KNL] Root filesystem

rootdelay= [KNL] Delay (in seconds) to pause before attempting to

mount the root filesystem

rootflags= [KNL] Set root filesystem mount option string

rootfstype= [KNL] Set root filesystem type

rw [KNL] Mount root device read-write on boot

S [KNL] Run init in single mode

sallooir [NET]

See drivers/net/irda/sall00_ir.c.

sb= [HW,OSS]

Format: <io>,<irq>,<dma>,<dma2>

sbni= [NET] Granch SBNI12 leased line adapter

sbpcd= [HW,CD] Soundblaster CD adapter

Format: <io>,<type>

See a comment before function sbpcd_setup() in

drivers/cdrom/sbpcd.c.

Cache Web Session-State

Scalable, hi-av caching for server farms. Free download!

www.scaleoutsoftware.com

Relay Boards

TTL controlled relay board. 2 or 4 relays; loads up to 15A.

www.winford.cor

```
sc1200wdt=
                [HW,WDT] SC1200 WDT (watchdog) driver
                Format: <io>[,<timeout>[,<isapnp>]]
scsi_debug_*=
                [SCSI]
                See drivers/scsi/scsi_debug.c.
scsi_default_dev_flags=
                [SCSI] SCSI default device flags
                Format: <integer>
scsi_dev_flags= [SCSI] Black/white list entry for vendor and model
                Format: <vendor>:<model>:<flags>
                (flags are integer value)
scsi logging=
                [SCSI]
selinux
                [SELINUX] Disable or enable SELinux at boot time.
                Format: { "0" | "1" }
                See security/selinux/Kconfig help text.
                0 -- disable.
                1 -- enable.
                Default value is set via kernel config option.
                If enabled at boot time, /selinux/disable can be used
                later to disable prior to initial policy load.
serialnumber
                [BUGS=IA-32]
sg def reserved size=
                        [SCSI]
sgalaxy=
                [HW,OSS]
                Format: <io>,<irq>,<dma>,<dma2>,<sgbase>
shapers=
                [NET]
                Maximal number of shapers.
sim710=
                [SCSI,HW]
```

See header of drivers/scsi/sim710.c. simeth= [IA-64] simscsi= sjcd= [HW,CD] Format: <io>,<irq>,<dma> See header of drivers/cdrom/sjcd.c. slram= [HW,MTD] [HW] smart2= Format: <io1>[,<io2>[,...,<io8>]] snd-ad1816a= [HW,ALSA] snd-ad1848= [HW,ALSA] snd-ali5451= [HW,ALSA] snd-als100= [HW,ALSA] snd-als4000= [HW,ALSA] snd-azt2320= [HW,ALSA] snd-cmi8330= [HW,ALSA] snd-cmipci= [HW,ALSA] snd-cs4231= [HW,ALSA] snd-cs4232= [HW,ALSA] snd-cs4236= [HW,ALSA] snd-cs4281= [HW,ALSA] snd-cs46xx=[HW,ALSA] snd-dt019x= [HW,ALSA] snd-dummy= [HW,ALSA] snd-emu10k1= [HW,ALSA] snd-ens1370= [HW,ALSA] snd-ens1371= [HW,ALSA] snd-es968= [HW,ALSA] snd-es1688= [HW,ALSA] snd-es18xx= [HW,ALSA] snd-es1938= [HW,ALSA] snd-es1968= [HW,ALSA] snd-fm801= [HW,ALSA] snd-gusclassic= [HW,ALSA] snd-gusextreme= [HW,ALSA] snd-gusmax= [HW,ALSA] snd-hdsp= [HW,ALSA] snd-ice1712= [HW,ALSA] snd-intel8x0= [HW,ALSA] snd-interwave= [HW,ALSA] snd-interwave-stb= [HW,ALSA]

[HW,ALSA]

[HW,ALSA]

snd-korg1212=

snd-maestro3=

```
snd-mpu401=
                 [HW,ALSA]
snd-mtpav=
                 [HW,ALSA]
snd-nm256=
                 [HW,ALSA]
snd-opl3sa2=
                 [HW,ALSA]
snd-opti92x-ad1848=
                 [HW,ALSA]
snd-opti92x-cs4231=
                 [HW,ALSA]
snd-opti93x=
                 [HW,ALSA]
snd-pmac=
                 [HW,ALSA]
snd-rme32=
                 [HW,ALSA]
snd-rme96=
                 [HW,ALSA]
snd-rme9652=
                 [HW,ALSA]
snd-sb8=
                 [HW,ALSA]
snd-sb16=
                 [HW, ALSA]
snd-sbawe=
                 [HW,ALSA]
snd-serial=
                 [HW,ALSA]
snd-sgalaxy=
                 [HW, ALSA]
snd-sonicvibes= [HW,ALSA]
snd-sun-amd7930=
                 [HW,ALSA]
snd-sun-cs4231= [HW,ALSA]
snd-trident=
                 [HW,ALSA]
snd-usb-audio=
                [HW,ALSA,USB]
snd-via82xx=
                 [HW,ALSA]
snd-virmidi=
                 [HW,ALSA]
snd-wavefront=
                [HW,ALSA]
snd-ymfpci=
                 [HW,ALSA]
sonicvibes=
                 [HW,OSS]
                Format: <reverb>
sonycd535=
                 [HW,CD]
                 Format: <io>[,<irq>]
                 [HW] Sony Programmable I/O Control Device driver
sonypi.*=
                 See Documentation/sonypi.txt
specialix=
                 [HW, SERIAL] Specialix multi-serial port adapter
                See Documentation/specialix.txt.
spia_io_base=
                 [HW,MTD]
spia_fio_base=
spia_pedr=
spia_peddr=
                 [HW,OSS]
sscape=
                 Format: <io>,<irq>,<dma>,<mpu_io>,<mpu_irq>
st=
                 [HW,SCSI] SCSI tape parameters (buffers, etc.)
                 See Documentation/scsi/st.txt.
st0x=
                 [HW.SCSI]
                 See header of drivers/scsi/seagate.c.
sti=
                 [PARISC, HW]
                Format: <num>
```

Set the STI (builtin display/keyboard on the HP-PARISC machines) console (graphic card) which should be used

as the initial boot-console.

See also comment in drivers/video/console/sticore.c.

sti_font= [HW]

See comment in drivers/video/console/sticore.c.

stifb= [HW]

Format: bpp:<bpp1>[:<bpp2>[:<bpp3>...]]

swiotlb= [IA-64] Number of I/O TLB slabs

switches= [HW,M68k]
sym53c416= [HW,SCSI]

See header of drivers/scsi/sym53c416.c.

t128= [HW,SCSI]

See header of drivers/scsi/t128.c.

tdfx= [HW,DRM]
thash_entries= [KNL,NET]

Set number of hash buckets for TCP connection

time Show timing data prefixed to each printk message line

tipar.timeout= [HW,PPT]

Set communications timeout in tenths of a second

(default 15).

tipar.delay= [HW,PPT]

Set inter-bit delay in microseconds (default 10).

tmc8xx= [HW,SCSI]

See header of drivers/scsi/seagate.c.

tmscsim= [HW,SCSI]

See comment before function dc390 setup() in

drivers/scsi/tmscsim.c.

tp720= [HW,PS2]

trix= [HW,OSS] MediaTrix AudioTrix Pro

Format:

<io>,<irq>,<dma>,<dma2>,<sb_io>,<sb_irq>,<sb_dma>,<mpu_io>,<mpu_irq>

tsdev.xres= [TS] Horizontal screen resolution.
tsdev.yres= [TS] Vertical screen resolution.

turbografx.map[2|3]= [HW,JOY]

TurboGraFX parallel port interface

Format:

<port#>,<js1>,<js2>,<js3>,<js4>,<js5>,<js6>,<js7>
See also Documentation/input/joystick-parport.txt

u14-34f= [HW,SCSI] UltraStor 14F/34F SCSI host adapter

See header of drivers/scsi/u14-34f.c.

uart401= [HW,OSS]

Format: <io>,<irq>

uart6850= [HW,OSS]

Format: <io>,<irq>

usbhid.mousepoll=

[USBHID] The interval which mice are to be polled at.

video= [FB] Frame buffer configuration
See Documentation/fb/modedb.txt.

vga= [BOOT,IA-32] Select a particular video mode

See Documentation/i386/boot.txt and

Documentation/svga.txt. Use vga=ask for menu.

This is actually a boot loader parameter; the value is

passed to the kernel using a special protocol.

 $\verb|vmalloc=nn[KMG]| [KNL,BOOT]| Forces the \verb|vmalloc| area to have an exact| \\$

size of <nn>. This can be used to increase the minimum size (128MB on x86). It can also be used to

decrease the size and leave more room for directly

mapped kernel RAM.

vmhalt= [KNL, S390] vmpoff= [KNL,S390]

waveartist= [HW,OSS]

Format: <io>,<irq>,<dma>,<dma2>

wd33c93= [HW.SCSI]

See header of drivers/scsi/wd33c93.c.

wd7000 =[HW,SCSI]

See header of drivers/scsi/wd7000.c.

wdt= [WDT] Watchdog

See Documentation/watchdog/watchdog.txt.

xd= [HW,XT] Original XT pre-IDE (RLL encoded) disks.

xd_geo= See header of drivers/block/xd.c.

xirc2ps_cs= [NET, PCMCIA]

Format:

<irq>,<irq_mask>,<io>,<full_duplex>,<do_sound>,<lockup_hack>[,<irq2>[,<irq3>[,<irq4>]]]

Changelog:

2000-06-?? Mr. Unknown

The last known update (for 2.4.0) - the changelog was not kept before.

2002-11-24 Petr Baudis pasky@ucw.cz>

Randy Dunlap < randy.dunlap@verizon.net >

Update for 2.5.49, description for most of the options introduced, references to other documentation (C files, READMEs, \dots), added S390, PPC, SPARC, MTD, ALSA and OSS category. Minor corrections and reformatting.

2005-10-19 Randy Dunlap < rdunlap@xenotime.net > Lots of typos, whitespace, some reformatting.

TODO

Add documentation for ALSA options. Add more DRM drivers.

Ads by Google

Embedded Linux RedHat Linux Linux Kernel

Debian Linux

Linux Ubuntu

Back to post.

©2005 nixCraft - Disclaimer - Privacy policy



Latst updated on: January 14, 2009 by MatrixBuild v0.1r1