

# Kernel 2.6 SMP very slow with ServerWorks LE Chipset

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Debian/2006-11/msg02243.html>

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  - *Date:* Mon, 20 Nov 2006 15:44:57 +0800
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Hi I have a dual PIII Motherboard based on a ServerWorks LE chipset, the motherboard is from an HP Netserver E 800 which is a customised ASUS CUR-DLS.

in UP config everything is OK in SMP the system slows right down, I've been googling and recompiling my kernel for days looking for the problem option without success, please help.

I'm using Sarge and I've tried the precompiled kernel 2.6.8-3-686-smp and I've downloaded the sources for 2.6.18 and compiled them from scratch in dozens of different permutations, all with the same result that the system crawls, I've seen other people have the same problem but no fixes.

<http://forums.whirlpool.net.au/forum-replies.cfm?t=565813>

Below is some useful output, the hdparm -tT examples below are under the smp kernel, the same commands under a uniprocessor kernel yield fairly consistent timed cache reads around

Timing cached reads: 744 MB in 2.01 seconds = 370.35 MB/sec

Timing buffered disk reads: 222 MB in 3.02 seconds = 73.48 MB/sec

Any help greatly appreciated.

Thank you

```
nas:~# uname -a
```

```
Linux nas 2.6.18.1.smp.1.0.HP_E800_SMP #1 SMP Thu Nov 16 15:26:09 SGT 2006 i686 GNU/Linux
```

```
nas:~# hdparm -tT /dev/hda
```

```
/dev/hda:
```

```
Timing cached reads: 740 MB in 2.01 seconds = 369.02 MB/sec
```

```
Timing buffered disk reads: 10 MB in 3.32 seconds = 3.01 MB/sec
```

```
nas:~# hdparm -tT /dev/sda
```

```
/dev/sda:
```

```
Timing cached reads: 744 MB in 2.01 seconds = 370.35 MB/sec
```

```
Timing buffered disk reads: 32 MB in 3.14 seconds = 10.21 MB/sec
```

```
nas:~# hdparm -tT /dev/sdb
```

```
/dev/sdb:
```

```
Timing cached reads: 40 MB in 2.17 seconds = 18.43 MB/sec
```

```
Timing buffered disk reads: 10 MB in 3.15 seconds = 3.18 MB/sec
```

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```
nas:~# hdparm -tT /dev/sdc
```

```
/dev/sdc:
```

```
Timing cached reads: 36 MB in 2.01 seconds = 17.91 MB/sec
```

```
Timing buffered disk reads: 66 MB in 3.02 seconds = 21.88 MB/sec
```

```
#####
```

```
nas:~# lspci
```

```
0000:00:00.0 Host bridge: ServerWorks CNB20LE Host Bridge (rev 06)
```

```
0000:00:00.1 Host bridge: ServerWorks CNB20LE Host Bridge (rev 06)
```

```
0000:00:02.0 Ethernet controller: Intel Corp. 82557/8/9 [Ethernet Pro 100] (rev 08)
```

```
0000:00:04.0 Ethernet controller: Intel Corp.: Unknown device 107c (rev 05)
```

```
0000:00:05.0 Unknown mass storage controller: Silicon Image, Inc. (formerly CMD Technology Inc)
```

```
PCI0680 Ultra ATA-133 Host Controller (rev 02)
```

```
0000:00:07.0 VGA compatible controller: ATI Technologies Inc Rage XL (rev 27)
```

```
0000:00:0f.0 ISA bridge: ServerWorks OSB4 South Bridge (rev 50)
```

```
0000:00:0f.1 IDE interface: ServerWorks OSB4 IDE Controller
```

```
0000:00:0f.2 USB Controller: ServerWorks OSB4/CSB5 OHCI USB Controller (rev 04)
```

```
0000:05:02.0 Unknown mass storage controller: Silicon Image, Inc. (formerly CMD Technology Inc):
```

```
Unknown device 3124 (rev 01)
```

```
0000:05:05.0 SCSI storage controller: LSI Logic / Symbios Logic 53C896/897 (rev 07)
```

```
0000:05:05.1 SCSI storage controller: LSI Logic / Symbios Logic 53C896/897 (rev 07)
```

```
#####
```

```
nas:~# cat /proc/cpuinfo
```

```
processor : 0
```

```
vendor_id : GenuineIntel
```

```
cpu family : 6
```

```
model : 8
```

```
model name : Pentium III (Coppermine)
```

```
stepping : 3
```

```
cpu MHz : 666.711
```

```
cache size : 256 KB
```

```
fdiv_bug : no
```

```
hlt_bug : no
```

```
f00f_bug : no
```

```
coma_bug : no
```

```
fpu : yes
```

```
fpu_exception : yes
```

```
cpuid level : 2
```

```
wp : yes
```

```
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 mmx fxsr sse
```

```
bogomips : 1334.30
```

```
processor : 1
```

```
vendor_id : GenuineIntel
```

```
cpu family : 6
```

```
model : 8
```

```
model name : Pentium III (Coppermine)
```

```
stepping : 3
```

```
cpu MHz : 666.711
```

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cache size : 256 KB  
fdiv\_bug : no  
hlt\_bug : no  
f00f\_bug : no  
coma\_bug : no  
fpu : yes  
fpu\_exception : yes  
cpuid level : 2  
wp : yes  
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 mmx fxsr sse  
bogomips : 1334.52

#####

nas:~# cat /proc/interrupts  
CPU0 CPU1  
0: 169863 161890 IO-APIC-edge timer  
1: 8 1 IO-APIC-edge i8042  
2: 0 0 XT-PIC cascade  
12: 102 1 IO-APIC-edge i8042  
129: 1426 1 IO-APIC-level eth0  
137: 4818 434 IO-APIC-level ide0, ide1  
153: 2019 432 IO-APIC-level libata  
161: 30 0 IO-APIC-level sym53c8xx  
169: 29 1 IO-APIC-level sym53c8xx  
NMI: 0 0  
LOC: 331671 331671  
ERR: 0  
MIS: 0

#####

nas:~# dmesg  
Linux version 2.6.18.1.smp.1.0.HP\_E800\_SMP (root@nas) (gcc version 3.3.5 (Debian 1:3.3.5-13)) #1 SMP  
Thu Nov 16 15:26:09 SGT 2006  
BIOS-provided physical RAM map:  
BIOS-e820: 0000000000000000 - 000000000009d400 (usable)  
BIOS-e820: 000000000009d400 - 00000000000a0000 (reserved)  
BIOS-e820: 00000000000eac00 - 0000000000100000 (reserved)  
BIOS-e820: 0000000000100000 - 000000001fff0000 (usable)  
BIOS-e820: 000000001fff0000 - 000000001fffc000 (ACPI data)  
BIOS-e820: 000000001fffc000 - 0000000020000000 (ACPI NVS)  
BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)  
BIOS-e820: 00000000fee00000 - 00000000fee01000 (reserved)  
BIOS-e820: 00000000fff80000 - 0000000100000000 (reserved)  
511MB LOWMEM available.  
found SMP MP-table at 000f6f60  
On node 0 totalpages: 131056  
DMA zone: 4096 pages, LIFO batch:0  
Normal zone: 126960 pages, LIFO batch:31  
DMI 2.3 present.  
ACPI: RSDP (v000 PTLTD ) @ 0x000f6f40  
ACPI: RSDT (v001 HP HWPC20F 0x06040012 PTL 0x00000000) @ 0x1fffc5eb

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```
ACPI: FADT (v001 HP HWPC20F 0x06040012 PTL 0x00000001) @ 0x1ffffb05
ACPI: MADT (v001 PTLTD APIC 0x06040012 LTP 0x00000000) @ 0x1ffffb79
ACPI: BOOT (v001 HP HWPC20F 0x06040012 PTL 0x00000001) @ 0x1ffffbd9
ACPI: DSDT (v001 HP HWPC20F 0x06040012 MSFT 0x0100000b) @ 0x00000000
ACPI: PM-Timer IO Port: 0x1208
ACPI: Local APIC address 0xfec00000
ACPI: LAPIC (acpi_id[0x00] lapic_id[0x03] enabled)
Processor #3 6:8 APIC version 17
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 6:8 APIC version 17
ACPI: LAPIC_NMI (acpi_id[0x00] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x01] high edge lint[0x1])
ACPI: IOAPIC (id[0x01] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 1, version 17, address 0xfec00000, GSI 0-15
ACPI: IOAPIC (id[0x02] address[0xfec01000] gsi_base[16])
IOAPIC[1]: apic_id 2, version 17, address 0xfec01000, GSI 16-31
ACPI: IRQ9 used by override.
Enabling APIC mode: Flat. Using 2 I/O APICs
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 30000000 (gap: 20000000:dec00000)
Detected 666.786 MHz processor.
Built 1 zonelists. Total pages: 131056
Kernel command line: root=/dev/hda1 ro mapped APIC to ffffd000 (fec00000)
mapped IOAPIC to ffffc000 (fec00000)
mapped IOAPIC to ffffb000 (fec01000)
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
PID hash table entries: 2048 (order: 11, 8192 bytes)
Console: colour VGA+ 80x25
Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
Memory: 516260k/524224k available (1781k kernel code, 7472k reserved, 665k data, 200k init, 0k highmem)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
Calibrating delay using timer specific routine.. 1334.32 BogoMIPS (lpj=2668659)
Mount-cache hash table entries: 512
CPU: After generic identify, caps: 0383fbff 00000000 00000000 00000000 00000000 00000000
CPU: After vendor identify, caps: 0383fbff 00000000 00000000 00000000 00000000 00000000
CPU: L1 I cache: 16K, L1 D cache: 16K
CPU: L2 cache: 256K
CPU: After all inits, caps: 0383fbff 00000000 00000000 00000040 00000000 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
Compat vDSO mapped to ffffe000.
Checking 'hlt' instruction... OK.
Freeing SMP alternatives: 12k freed
ACPI: Core revision 20060707
CPU0: Intel Pentium III (Coppermine) stepping 03
Booting processor 1/0 eip 2000
Initializing CPU#1
Calibrating delay using timer specific routine.. 1334.49 BogoMIPS (lpj=2668996)
```

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```
CPU: After generic identify, caps: 0383fbff 00000000 00000000 00000000 00000000 00000000
CPU: After vendor identify, caps: 0383fbff 00000000 00000000 00000000 00000000 00000000
CPU: L1 I cache: 16K, L1 D cache: 16K
CPU: L2 cache: 256K
CPU: After all inits, caps: 0383fbff 00000000 00000000 00000040 00000000 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#1.
CPU1: Intel Pentium III (Coppermine) stepping 03
Total of 2 processors activated (2668.82 BogoMIPS).
ENABLING IO-APIC IRQs
..TIMER: vector=0x31 apic1=0 pin1=0 apic2=-1 pin2=-1
checking TSC synchronization across 2 CPUs: CPU#0 had -2 usecs TSC skew, fixed it up.
CPU#1 had 2 usecs TSC skew, fixed it up.
Brought up 2 CPUs
migration_cost=739
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: PCI BIOS revision 2.10 entry at 0xfd9e1, last bus=7
PCI: Using configuration type 1
Setting up standard PCI resources
mtrr: your CPUs had inconsistent MTRRdefType settings
mtrr: probably your BIOS does not setup all CPUs.
mtrr: corrected configuration.
ACPI: Interpreter enabled
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
PCI: Probing PCI hardware (bus 00)
PCI: Firmware left 0000:00:02.0 e100 interrupts enabled, disabling
Boot video device is 0000:00:07.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Link [LNKU] (IRQs 5) *10
ACPI: PCI Interrupt Link [LNK0] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNK1] (IRQs 3 4 5 7 10 11 12 14 15) *9
ACPI: PCI Interrupt Link [LNK2] (IRQs 3 4 5 *7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK3] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNK4] (IRQs 9 *11)
ACPI: PCI Interrupt Link [LNK5] (IRQs 9 *11)
ACPI: PCI Interrupt Link [LNK6] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNK7] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNK8] (IRQs 3 4 *5 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK9] (IRQs 3 4 5 7 10 11 12 14 15) *9
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 7 10 11 12 14 15) *0, disabled.
ACPI: Blank IRQ resource
ACPI: Resource is not an IRQ entry
ACPI: PCI Interrupt Link [LNKX] (IRQs) *0, disabled.
ACPI: PCI Root Bridge [PCI1] (0000:05)
```

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```
PCI: Probing PCI hardware (bus 05)
ACPI: PCI Interrupt Routing Table [_SB_.PCI1._PRT]
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init
pnp: PnP ACPI: found 13 devices
PnPBIOS: Disabled by ACPI PNP
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
pnp: 00:05: ioport range 0xf50-0xf58 has been reserved
pnp: 00:05: ioport range 0x1100-0x111f could not be reserved
pnp: 00:05: ioport range 0x1200-0x121f could not be reserved
NET: Registered protocol family 2
IP route cache hash table entries: 4096 (order: 2, 16384 bytes)
TCP established hash table entries: 16384 (order: 5, 131072 bytes)
TCP bind hash table entries: 8192 (order: 4, 65536 bytes)
TCP: Hash tables configured (established 16384 bind 8192)
TCP reno registered
Simple Boot Flag at 0x35 set to 0x1
audit: initializing netlink socket (disabled)
audit(1163680853.896:1): initialized
VFS: Disk quotas dquot_6.5.1
Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Initializing Cryptographic API
io scheduler noop registered
io scheduler anticipatory registered (default)
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
00:09: ttyS0 at I/O 0x3f8 (irq = -1) is a 16550A
RAMDISK driver initialized: 16 RAM disks of 8192K size 1024 blocksize
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
SiI680: IDE controller at PCI slot 0000:00:05.0
ACPI: PCI Interrupt 0000:00:05.0[A] -> GSI 18 (level, low) -> IRQ 177
SiI680: chipset revision 2
SiI680: BASE CLOCK == 133
SiI680: 100% native mode on irq 177
ide0: MMIO-DMA , BIOS settings: hda:pio, hdb:pio
ide1: MMIO-DMA , BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
hda: Hitachi HDS721680PLAT80, ATA DISK drive
ide0 at 0xe0802080-0xe0802087,0xe080208a on irq 177
Probing IDE interface ide1...
hdc: TSSTcorpDVD-ROM TS-H352A, ATAPI CD/DVD-ROM drive
ide1 at 0xe08020c0-0xe08020c7,0xe08020ca on irq 177
SvrWks OSB4: IDE controller at PCI slot 0000:00:0f.1
SvrWks OSB4: chipset revision 0
SvrWks OSB4: not 100% native mode: will probe irqs later
ide2: BM-DMA at 0x1890-0x1897, BIOS settings: hde:pio, hdf:pio
ide3: BM-DMA at 0x1898-0x189f, BIOS settings: hdg:pio, hdh:pio
```

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Probing IDE interface ide2...  
Probing IDE interface ide3...  
Probing IDE interface ide2...  
Probing IDE interface ide3...  
hda: max request size: 64KiB  
hda: 66055248 sectors (33820 MB) w/7384KiB Cache, CHS=16383/255/63, UDMA(133)  
hda: cache flushes supported  
hda: hda1 hda2 < hda5 >  
PNP: PS/2 Controller [PNP0303:KBC,PNP0f13:MOUE] at 0x60,0x64 irq 1,12  
serio: i8042 AUX port at 0x60,0x64 irq 12  
serio: i8042 KBD port at 0x60,0x64 irq 1  
mice: PS/2 mouse device common for all mice  
EDAC MC: Ver: 2.0.1 Nov 16 2006  
TCP bic registered  
Starting balanced\_irq  
Using IPI Shortcut mode  
Time: tsc clocksource has been installed.  
input: AT Translated Set 2 keyboard as /class/input/input0  
kjournald starting. Commit interval 5 seconds  
EXT3-fs: mounted filesystem with ordered data mode.  
VFS: Mounted root (ext3 filesystem) readonly.  
Freeing unused kernel memory: 200k freed  
NET: Registered protocol family 1  
Adding 1365484k swap on /dev/hda5. Priority:-1 extents:1 across:1365484k  
EXT3 FS on hda1, internal journal  
Generic RTC Driver v1.07  
SCSI subsystem initialized  
libata version 2.00 loaded.  
sata\_sil24 0000:05:02.0: version 0.3  
ACPI: PCI Interrupt 0000:05:02.0[A] -> GSI 21 (level, low) -> IRQ 185  
ata1: SATA max UDMA/100 cmd 0xE08F0000 ctl 0x0 bmdma 0x0 irq 185  
ata2: SATA max UDMA/100 cmd 0xE08F2000 ctl 0x0 bmdma 0x0 irq 185  
ata3: SATA max UDMA/100 cmd 0xE08F4000 ctl 0x0 bmdma 0x0 irq 185  
ata4: SATA max UDMA/100 cmd 0xE08F6000 ctl 0x0 bmdma 0x0 irq 185  
scsi0 : sata\_sil24  
ata1: SATA link down (SStatus 0 SControl 300)  
scsi1 : sata\_sil24  
ata2: SATA link up 3.0 Gbps (SStatus 123 SControl 300)  
ata2.00: ATA-7, max UDMA/133, 976773168 sectors: LBA48 NCQ (depth 31/32)  
ata2.00: ata2: dev 0 multi count 16  
ata2.00: configured for UDMA/100  
scsi2 : sata\_sil24  
ata3: SATA link up 3.0 Gbps (SStatus 123 SControl 300)  
ata3.00: ATA-7, max UDMA/133, 976773168 sectors: LBA48 NCQ (depth 31/32)  
ata3.00: ata3: dev 0 multi count 16  
ata3.00: configured for UDMA/100  
scsi3 : sata\_sil24  
ata4: SATA link up 3.0 Gbps (SStatus 123 SControl 300)  
ata4.00: ATA-7, max UDMA/133, 976773168 sectors: LBA48 NCQ (depth 31/32)  
ata4.00: ata4: dev 0 multi count 16  
ata4.00: configured for UDMA/100

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Vendor: ATA Model: ST3500630AS Rev: 3.AA  
Type: Direct-Access ANSI SCSI revision: 05  
SCSI device sda: 976773168 512-byte hdwr sectors (500108 MB)  
sda: Write Protect is off  
sda: Mode Sense: 00 3a 00 00  
SCSI device sda: drive cache: write back  
SCSI device sda: 976773168 512-byte hdwr sectors (500108 MB)  
sda: Write Protect is off  
sda: Mode Sense: 00 3a 00 00  
SCSI device sda: drive cache: write back  
sda: unknown partition table  
sd 1:0:0:0: Attached scsi disk sda  
Vendor: ATA Model: ST3500630AS Rev: 3.AA  
Type: Direct-Access ANSI SCSI revision: 05  
SCSI device sdb: 976773168 512-byte hdwr sectors (500108 MB)  
sdb: Write Protect is off  
sdb: Mode Sense: 00 3a 00 00  
SCSI device sdb: drive cache: write back  
SCSI device sdb: 976773168 512-byte hdwr sectors (500108 MB)  
sdb: Write Protect is off  
sdb: Mode Sense: 00 3a 00 00  
SCSI device sdb: drive cache: write back  
sdb: unknown partition table  
sd 2:0:0:0: Attached scsi disk sdb  
Vendor: ATA Model: ST3500630AS Rev: 3.AA  
Type: Direct-Access ANSI SCSI revision: 05  
SCSI device sdc: 976773168 512-byte hdwr sectors (500108 MB)  
sdc: Write Protect is off  
sdc: Mode Sense: 00 3a 00 00  
SCSI device sdc: drive cache: write back  
SCSI device sdc: 976773168 512-byte hdwr sectors (500108 MB)  
sdc: Write Protect is off  
sdc: Mode Sense: 00 3a 00 00  
SCSI device sdc: drive cache: write back  
sdc: unknown partition table  
sd 3:0:0:0: Attached scsi disk sdc  
hdc: ATAPI 48X DVD-ROM drive, 512kB Cache, UDMA(33)  
Uniform CD-ROM driver Revision: 3.20  
Intel(R) PRO/1000 Network Driver - version 7.1.9-k4-NAPI  
Copyright (c) 1999-2006 Intel Corporation.  
ACPI: PCI Interrupt 0000:00:04.0[A] -> GSI 17 (level, low) -> IRQ 193  
e1000: 0000:00:04.0: e1000\_probe: (PCI:33MHz:32-bit) 00:0e:0c:bc:ae:b5  
e1000: eth0: e1000\_probe: Intel(R) PRO/1000 Network Connection  
input: ImExPS/2 Generic Explorer Mouse as /class/input/input1  
e100: Intel(R) PRO/100 Network Driver, 3.5.10-k2-NAPI  
e100: Copyright(c) 1999-2005 Intel Corporation  
ACPI: PCI Interrupt 0000:00:02.0[A] -> GSI 20 (level, low) -> IRQ 201  
e100: eth1: e100\_probe: addr 0xfd100000, irq 201, MAC addr 00:E0:18:6B:8E:B4  
ACPI: PCI Interrupt 0000:05:05.0[A] -> GSI 24 (level, low) -> IRQ 209  
sym0: <896> rev 0x7 at pci 0000:05:05.0 irq 209  
sym0: Symbios NVRAM, ID 7, Fast-40, LVD, parity checking

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sym0: open drain IRQ line driver, using on-chip SRAM  
sym0: using LOAD/STORE-based firmware.  
sym0: handling phase mismatch from SCRIPTS.  
sym0: SCSI BUS has been reset.  
scsi4 : sym-2.2.3  
ACPI: PCI Interrupt 0000:05:05.1[B] -> GSI 25 (level, low) -> IRQ 217  
sym1: <896> rev 0x7 at pci 0000:05:05.1 irq 217  
sym1: Symbios NVRAM, ID 7, Fast-40, LVD, parity checking  
sym1: open drain IRQ line driver, using on-chip SRAM  
sym1: using LOAD/STORE-based firmware.  
sym1: handling phase mismatch from SCRIPTS.  
sym1: SCSI BUS has been reset.  
scsi5 : sym-2.2.3  
usbcore: registered new driver usbfscsi  
usbcore: registered new driver hub  
ohci\_hcd: 2005 April 22 USB 1.1 'Open' Host Controller (OHCI) Driver (PCI)  
ACPI: PCI Interrupt Link [LNKU] enabled at IRQ 5  
ACPI: PCI Interrupt 0000:00:0f.2[A] -> Link [LNKU] -> GSI 5 (level, low) -> IRQ 5  
ohci\_hcd 0000:00:0f.2: OHCI Host Controller  
ohci\_hcd 0000:00:0f.2: new USB bus registered, assigned bus number 1  
ohci\_hcd 0000:00:0f.2: irq 5, io mem 0xfd103000  
usb usb1: configuration #1 chosen from 1 choice  
hub 1-0:1.0: USB hub found  
hub 1-0:1.0: 2 ports detected  
piix4\_smbus 0000:00:0f.0: Found 0000:00:0f.0 device  
input: PC Speaker as /class/input/input2  
pnp: Evaluate \_CRS failed  
pnp: Failed to activate device 00:0a.  
parport\_pc: probe of 00:0a failed with error -5  
floppy0: no floppy controllers found  
e1000: eth0: e1000\_watchdog: NIC Link is Up 100 Mbps Full Duplex  
NET: Registered protocol family 17  
NET: Registered protocol family 10  
lo: Disabled Privacy Extensions  
IPv6 over IPv4 tunneling driver  
eth0: no IPv6 routers present

```
#####  
#  
# Automatically generated make config: don't edit  
# Linux kernel version: 2.6.18.1  
# Thu Nov 16 15:05:37 2006  
#  
CONFIG_X86_32=y  
CONFIG_GENERIC_TIME=y  
CONFIG_LOCKDEP_SUPPORT=y  
CONFIG_STACKTRACE_SUPPORT=y  
CONFIG_SEMAPHORE_SLEEPERS=y  
CONFIG_X86=y  
CONFIG_MMU=y  
CONFIG_GENERIC_ISA_DMA=y
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
CONFIG_GENERIC_IOMAP=y
CONFIG_GENERIC_HWEIGHT=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_DMI=y
CONFIG_DEFCONFIG_LIST="/lib/modules/$UNAME_RELEASE/.config"

#
# Code maturity level options
#
CONFIG_EXPERIMENTAL=y
CONFIG_LOCK_KERNEL=y
CONFIG_INIT_ENV_ARG_LIMIT=32

#
# General setup
#
CONFIG_LOCALVERSION=".HP_E800_SMP"
CONFIG_LOCALVERSION_AUTO=y
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_POSIX_QUEUE=y
CONFIG_BSD_PROCESS_ACCT=y
CONFIG_BSD_PROCESS_ACCT_V3=y
# CONFIG_TASKSTATS is not set
CONFIG_AUDIT=y
CONFIG_AUDITSYSCALL=y
CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
# CONFIG_CPUSETS is not set
# CONFIG_RELAY is not set
CONFIG_INITRAMFS_SOURCE=""
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set
# CONFIG_EMBEDDED is not set
CONFIG_UID16=y
CONFIG_SYSCTL=y
CONFIG_KALLSYMS=y
# CONFIG_KALLSYMS_EXTRA_PASS is not set
CONFIG_HOTPLUG=y
CONFIG_PRINTK=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
CONFIG_BASE_FULL=y
CONFIG_FUTEX=y
CONFIG_EPOLL=y
CONFIG_SHMEM=y
CONFIG_SLAB=y
CONFIG_VM_EVENT_COUNTERS=y
CONFIG_RT_MUTEXES=y
# CONFIG_TINY_SHMEM is not set
CONFIG_BASE_SMALL=0
# CONFIG_SLOB is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
#  
# Loadable module support  
#  
CONFIG_MODULES=y  
CONFIG_MODULE_UNLOAD=y  
CONFIG_MODULE_FORCE_UNLOAD=y  
CONFIG_MODVERSIONS=y  
# CONFIG_MODULE_SRCVERSION_ALL is not set  
CONFIG_KMOD=y  
CONFIG_STOP_MACHINE=y
```

```
#  
# Block layer  
#  
CONFIG_LBD=y  
# CONFIG_BLK_DEV_IO_TRACE is not set  
# CONFIG_LSF is not set
```

```
#  
# IO Schedulers  
#  
CONFIG_IOSCHED_NOOP=y  
CONFIG_IOSCHED_AS=y  
# CONFIG_IOSCHED_DEADLINE is not set  
# CONFIG_IOSCHED_CFQ is not set  
CONFIG_DEFAULT_AS=y  
# CONFIG_DEFAULT_DEADLINE is not set  
# CONFIG_DEFAULT_CFQ is not set  
# CONFIG_DEFAULT_NOOP is not set  
CONFIG_DEFAULT_IOSCHED="anticipatory"
```

```
#  
# Processor type and features  
#  
CONFIG_SMP=y  
CONFIG_X86_PC=y  
# CONFIG_X86_ELAN is not set  
# CONFIG_X86_VOYAGER is not set  
# CONFIG_X86_NUMAQ is not set  
# CONFIG_X86_SUMMIT is not set  
# CONFIG_X86_BIGSMP is not set  
# CONFIG_X86_VISWS is not set  
# CONFIG_X86_GENERICARCH is not set  
# CONFIG_X86_ES7000 is not set  
# CONFIG_M386 is not set  
# CONFIG_M486 is not set  
# CONFIG_M586 is not set  
# CONFIG_M586TSC is not set  
# CONFIG_M586MMX is not set  
# CONFIG_M686 is not set
```

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```
# CONFIG_MPENTIUMII is not set
CONFIG_MPENTIUMIII=y
# CONFIG_MPENTIUMMM is not set
# CONFIG_MPENTIUM4 is not set
# CONFIG_MK6 is not set
# CONFIG_MK7 is not set
# CONFIG_MK8 is not set
# CONFIG_MCRUSOE is not set
# CONFIG_MEFFICEON is not set
# CONFIG_MWINCHIP6 is not set
# CONFIG_MWINCHIP2 is not set
# CONFIG_MWINCHIP3D is not set
# CONFIG_MGEODEGX1 is not set
# CONFIG_MGEODE_LX is not set
# CONFIG_MCYRIXIII is not set
# CONFIG_MVIAC3_2 is not set
CONFIG_X86_GENERIC=y
CONFIG_X86_CMPXCHG=y
CONFIG_X86_XADD=y
CONFIG_X86_L1_CACHE_SHIFT=7
CONFIG_RWSEM_XCHGADD_ALGORITHM=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_X86_WP_WORKS_OK=y
CONFIG_X86_INVLPG=y
CONFIG_X86_BSWAP=y
CONFIG_X86_POPAD_OK=y
CONFIG_X86_CMPXCHG64=y
CONFIG_X86_GOOD_APIC=y
CONFIG_X86_INTEL_USERCOPY=y
CONFIG_X86_USE_PPRO_CHECKSUM=y
CONFIG_X86_TSC=y
CONFIG_HPET_TIMER=y
CONFIG_NR_CPUS=8
# CONFIG_SCHED_SMT is not set
CONFIG_SCHED_MC=y
CONFIG_PREEMPT_NONE=y
# CONFIG_PREEMPT_VOLUNTARY is not set
# CONFIG_PREEMPT is not set
CONFIG_PREEMPT_BKL=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_MCE=y
# CONFIG_X86_MCE_NONFATAL is not set
# CONFIG_X86_MCE_P4THERMAL is not set
CONFIG_VM86=y
# CONFIG_TOSHIBA is not set
# CONFIG_I8K is not set
# CONFIG_X86_REBOOTFIXUPS is not set
CONFIG_MICROCODE=m
CONFIG_X86_MSR=m
CONFIG_X86_CPUID=m
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
#
# Firmware Drivers
#
# CONFIG_EDD is not set
# CONFIG_DELL_RBU is not set
# CONFIG_DCDBAS is not set
CONFIG_NOHIGHMEM=y
# CONFIG_HIGHMEM4G is not set
# CONFIG_HIGHMEM64G is not set
CONFIG_PAGE_OFFSET=0xC0000000
CONFIG_ARCH_FLATMEM_ENABLE=y
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_ARCH_SELECT_MEMORY_MODEL=y
CONFIG_SELECT_MEMORY_MODEL=y
CONFIG_FLATMEM_MANUAL=y
# CONFIG_DISCONTIGMEM_MANUAL is not set
# CONFIG_SPARSEMEM_MANUAL is not set
CONFIG_FLATMEM=y
CONFIG_FLAT_NODE_MEM_MAP=y
CONFIG_SPARSEMEM_STATIC=y
CONFIG_SPLIT_PTLOCK_CPUS=4
# CONFIG_RESOURCES_64BIT is not set
# CONFIG_MATH_EMULATION is not set
CONFIG_MTRR=y
# CONFIG_EFI is not set
CONFIG_IRQBALANCE=y
CONFIG_REGPARM=y
CONFIG_SECCOMP=y
# CONFIG_HZ_100 is not set
CONFIG_HZ_250=y
# CONFIG_HZ_1000 is not set
CONFIG_HZ=250
# CONFIG_KEXEC is not set
CONFIG_PHYSICAL_START=0x100000
# CONFIG_HOTPLUG_CPU is not set
CONFIG_COMPAT_VDSO=y

#
# Power management options (ACPI, APM)
#
CONFIG_PM=y
CONFIG_PM_LEGACY=y
# CONFIG_PM_DEBUG is not set

#
# ACPI (Advanced Configuration and Power Interface) Support
#
CONFIG_ACPI=y
CONFIG_ACPI_AC=m
CONFIG_ACPI_BATTERY=m
```

Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
CONFIG_ACPI_BUTTON=m
CONFIG_ACPI_VIDEO=m
CONFIG_ACPI_HOTKEY=m
CONFIG_ACPI_FAN=m
# CONFIG_ACPI_DOCK is not set
CONFIG_ACPI_PROCESSOR=m
CONFIG_ACPI_THERMAL=m
# CONFIG_ACPI_ASUS is not set
# CONFIG_ACPI_IBM is not set
# CONFIG_ACPI_TOSHIBA is not set
CONFIG_ACPI_BLACKLIST_YEAR=2001
# CONFIG_ACPI_DEBUG is not set
CONFIG_ACPI_EC=y
CONFIG_ACPI_POWER=y
CONFIG_ACPI_SYSTEM=y
CONFIG_X86_PM_TIMER=y
CONFIG_ACPI_CONTAINER=m
# CONFIG_ACPI_SBS is not set

#
# APM (Advanced Power Management) BIOS Support
#
CONFIG_APM=m
CONFIG_APM_IGNORE_USER_SUSPEND=y
CONFIG_APM_DO_ENABLE=y
CONFIG_APM_CPU_IDLE=y
CONFIG_APM_DISPLAY_BLANK=y
# CONFIG_APM_RTC_IS_GMT is not set
CONFIG_APM_ALLOW_INTS=y
CONFIG_APM_REAL_MODE_POWER_OFF=y

#
# CPU Frequency scaling
#
# CONFIG_CPU_FREQ is not set

#
# Bus options (PCI, PCMCIA, EISA, MCA, ISA)
#
CONFIG_PCI=y
# CONFIG_PCI_GOBIO is not set
# CONFIG_PCI_GOMMCONFIG is not set
# CONFIG_PCI_GODIRECT is not set
CONFIG_PCI_GOANY=y
CONFIG_PCI_BIOS=y
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
# CONFIG_PCIEPORTBUS is not set
CONFIG_PCI_MSI=y
CONFIG_ISA_DMA_API=y
CONFIG_ISA=y
```

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```
# CONFIG_EISA is not set
# CONFIG_MCA is not set
# CONFIG_SCx200 is not set

#
# PCCARD (PCMCIA/CardBus) support
#
# CONFIG_PCCARD is not set

#
# PCI Hotplug Support
#
# CONFIG_HOTPLUG_PCI is not set

#
# Executable file formats
#
CONFIG_BINFMT_ELF=y
# CONFIG_BINFMT_AOUT is not set
CONFIG_BINFMT_MISC=m

#
# Networking
#
CONFIG_NET=y

#
# Networking options
#
# CONFIG_NETDEBUG is not set
CONFIG_PACKET=m
CONFIG_PACKET_MMAP=y
CONFIG_UNIX=m
CONFIG_XFRM=y
CONFIG_XFRM_USER=m
CONFIG_NET_KEY=m
CONFIG_INET=y
CONFIG_IP_MULTICAST=y
CONFIG_IP_ADVANCED_ROUTER=y
CONFIG_ASK_IP_FIB_HASH=y
# CONFIG_IP_FIB_TRIE is not set
CONFIG_IP_FIB_HASH=y
CONFIG_IP_MULTIPLE_TABLES=y
CONFIG_IP_ROUTE_FWMARK=y
CONFIG_IP_ROUTE_MULTIPATH=y
# CONFIG_IP_ROUTE_MULTIPATH_CACHED is not set
CONFIG_IP_ROUTE_VERBOSE=y
# CONFIG_IP_PNP is not set
CONFIG_NET_IPIP=m
CONFIG_NET_IPGRE=m
CONFIG_NET_IPGRE_BROADCAST=y
```

Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
CONFIG_IP_MROUTE=y
CONFIG_IP_PIMSM_V1=y
CONFIG_IP_PIMSM_V2=y
# CONFIG_ARPD is not set
CONFIG_SYN_COOKIES=y
CONFIG_INET_AH=m
CONFIG_INET_ESP=m
CONFIG_INET_IPCOMP=m
CONFIG_INET_XFRM_TUNNEL=m
CONFIG_INET_TUNNEL=m
CONFIG_INET_XFRM_MODE_TRANSPORT=y
CONFIG_INET_XFRM_MODE_TUNNEL=y
CONFIG_INET_DIAG=y
CONFIG_INET_TCP_DIAG=y
# CONFIG_TCP_CONG_ADVANCED is not set
CONFIG_TCP_CONG_BIC=y

#
# IP: Virtual Server Configuration
#
CONFIG_IP_VS=m
# CONFIG_IP_VS_DEBUG is not set
CONFIG_IP_VS_TAB_BITS=12

#
# IPVS transport protocol load balancing support
#
CONFIG_IP_VS_PROTO_TCP=y
CONFIG_IP_VS_PROTO_UDP=y
CONFIG_IP_VS_PROTO_ESP=y
CONFIG_IP_VS_PROTO_AH=y

#
# IPVS scheduler
#
CONFIG_IP_VS_RR=m
CONFIG_IP_VS_WRR=m
CONFIG_IP_VS_LC=m
CONFIG_IP_VS_WLC=m
CONFIG_IP_VS_LBLC=m
CONFIG_IP_VS_LBLCR=m
CONFIG_IP_VS_DH=m
CONFIG_IP_VS_SH=m
CONFIG_IP_VS_SED=m
CONFIG_IP_VS_NQ=m

#
# IPVS application helper
#
CONFIG_IP_VS_FTP=m
CONFIG_IPV6=m
```

Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
CONFIG_IPV6_PRIVACY=y
# CONFIG_IPV6_ROUTER_PREF is not set
CONFIG_INET6_AH=m
CONFIG_INET6_ESP=m
CONFIG_INET6_IPCOMP=m
CONFIG_INET6_XFRM_TUNNEL=m
CONFIG_INET6_TUNNEL=m
CONFIG_INET6_XFRM_MODE_TRANSPORT=m
CONFIG_INET6_XFRM_MODE_TUNNEL=m
CONFIG_IPV6_TUNNEL=m
# CONFIG_NETWORK_SECMARK is not set
CONFIG_NETFILTER=y
# CONFIG_NETFILTER_DEBUG is not set
CONFIG_BRIDGE_NETFILTER=y

#
# Core Netfilter Configuration
#
# CONFIG_NETFILTER_NETLINK is not set
# CONFIG_NETFILTER_XTABLES is not set

#
# IP: Netfilter Configuration
#
CONFIG_IP_NF_CONNTRACK=m
# CONFIG_IP_NF_CT_ACCT is not set
# CONFIG_IP_NF_CONNTRACK_MARK is not set
# CONFIG_IP_NF_CONNTRACK_EVENTS is not set
# CONFIG_IP_NF_CT_PROTO_SCTP is not set
CONFIG_IP_NF_FTP=m
CONFIG_IP_NF_IRC=m
# CONFIG_IP_NF_NETBIOS_NS is not set
CONFIG_IP_NF_TFTP=m
CONFIG_IP_NF_AMANDA=m
# CONFIG_IP_NF_PPTP is not set
# CONFIG_IP_NF_H323 is not set
# CONFIG_IP_NF_SIP is not set
CONFIG_IP_NF_QUEUE=m

#
# IPv6: Netfilter Configuration (EXPERIMENTAL)
#
# CONFIG_IP6_NF_QUEUE is not set

#
# DECnet: Netfilter Configuration
#
# CONFIG_DECNET_NF_GRABULATOR is not set

#
# Bridge: Netfilter Configuration
```

```
#
CONFIG_BRIDGE_NF_EBTABLES=m
CONFIG_BRIDGE_EBT_BROUTE=m
CONFIG_BRIDGE_EBT_T_FILTER=m
CONFIG_BRIDGE_EBT_T_NAT=m
CONFIG_BRIDGE_EBT_802_3=m
CONFIG_BRIDGE_EBT_AMONG=m
CONFIG_BRIDGE_EBT_ARP=m
CONFIG_BRIDGE_EBT_IP=m
CONFIG_BRIDGE_EBT_LIMIT=m
CONFIG_BRIDGE_EBT_MARK=m
CONFIG_BRIDGE_EBT_PKTTYPE=m
CONFIG_BRIDGE_EBT_STP=m
CONFIG_BRIDGE_EBT_VLAN=m
CONFIG_BRIDGE_EBT_ARPREPLY=m
CONFIG_BRIDGE_EBT_DNAT=m
CONFIG_BRIDGE_EBT_MARK_T=m
CONFIG_BRIDGE_EBT_REDIRECT=m
CONFIG_BRIDGE_EBT_SNAT=m
CONFIG_BRIDGE_EBT_LOG=m
# CONFIG_BRIDGE_EBT_ULOG is not set
```

```
#
# DCCP Configuration (EXPERIMENTAL)
#
# CONFIG_IP_DCCP is not set
```

```
#
# SCTP Configuration (EXPERIMENTAL)
#
# CONFIG_IP_SCTP is not set
```

```
#
# TIPC Configuration (EXPERIMENTAL)
#
# CONFIG_TIPC is not set
# CONFIG_ATM is not set
CONFIG_BRIDGE=m
CONFIG_VLAN_8021Q=m
CONFIG_DECNET=m
# CONFIG_DECNET_ROUTER is not set
CONFIG_LLC=m
CONFIG_LLC2=m
# CONFIG_IPX is not set
CONFIG_ATALK=m
CONFIG_DEV_APPLETALK=m
# CONFIG_LTPC is not set
# CONFIG_COPS is not set
CONFIG_IPDDP=m
CONFIG_IPDDP_ENCAP=y
CONFIG_IPDDP_DECAP=y
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_X25 is not set
# CONFIG_LAPB is not set
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set

#
# QoS and/or fair queueing
#
# CONFIG_NET_SCHED is not set

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set
# CONFIG_HAMRADIO is not set
CONFIG_IRDA=m

#
# IrDA protocols
#
CONFIG_IRLAN=m
CONFIG_IRCOMM=m
# CONFIG_IRDA_ULTRA is not set

#
# IrDA options
#
CONFIG_IRDA_CACHE_LAST_LSAP=y
CONFIG_IRDA_FAST_RR=y
CONFIG_IRDA_DEBUG=y

#
# Infrared-port device drivers
#

#
# SIR device drivers
#
CONFIG_IRTTY_SIR=m

#
# Dongle support
#
CONFIG_DONGLE=y
CONFIG_ESI_DONGLE=m
CONFIG_ACTISYS_DONGLE=m
CONFIG_TEKRAM_DONGLE=m
# CONFIG_TOIM3232_DONGLE is not set
CONFIG_LITELINK_DONGLE=m
# CONFIG_MA600_DONGLE is not set
# CONFIG_GIRBIL_DONGLE is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_MCP2120_DONGLE is not set
# CONFIG_OLD_BELKIN_DONGLE is not set
# CONFIG_ACT200L_DONGLE is not set

#
# Old SIR device drivers
#

#
# Old Serial dongle support
#

#
# FIR device drivers
#
CONFIG_USB_IRDA=m
# CONFIG_SIGMATEL_FIR is not set
CONFIG_NSC_FIR=m
CONFIG_WINBOND_FIR=m
CONFIG_TOSHIBA_FIR=m
# CONFIG_SMC_IRCC_FIR is not set
# CONFIG_ALI_FIR is not set
# CONFIG_VLSI_FIR is not set
CONFIG_VIA_FIR=m
# CONFIG_MCS_FIR is not set
# CONFIG_BT is not set
# CONFIG_IEEE80211 is not set

#
# Device Drivers
#

#
# Generic Driver Options
#
CONFIG_STANDALONE=y
CONFIG_PREVENT_FIRMWARE_BUILD=y
CONFIG_FW_LOADER=m
# CONFIG_SYS_HYPERVISOR is not set

#
# Connector – unified userspace <-> kernelspace linker
#
# CONFIG_CONNECTOR is not set

#
# Memory Technology Devices (MTD)
#
# CONFIG_MTD is not set

#
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# Parallel port support
#
CONFIG_PARPORT=m
CONFIG_PARPORT_PC=m
CONFIG_PARPORT_SERIAL=m
# CONFIG_PARPORT_PC_FIFO is not set
# CONFIG_PARPORT_PC_SUPERIO is not set
# CONFIG_PARPORT_GSC is not set
# CONFIG_PARPORT_AX88796 is not set
CONFIG_PARPORT_1284=y

#
# Plug and Play support
#
CONFIG_PNP=y
# CONFIG_PNP_DEBUG is not set

#
# Protocols
#
CONFIG_ISAPNP=y
CONFIG_PNPBIOS=y
# CONFIG_PNPBIOS_PROC_FS is not set
CONFIG_PNPACPI=y

#
# Block devices
#
CONFIG_BLK_DEV_FD=m
# CONFIG_BLK_DEV_XD is not set
# CONFIG_PARIDE is not set
# CONFIG_BLK_CPQ_DA is not set
# CONFIG_BLK_CPQ_CISS_DA is not set
# CONFIG_BLK_DEV_DAC960 is not set
# CONFIG_BLK_DEV_UMEM is not set
# CONFIG_BLK_DEV_COW_COMMON is not set
CONFIG_BLK_DEV_LOOP=m
CONFIG_BLK_DEV_CRYPTOLOOP=m
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_SX8 is not set
# CONFIG_BLK_DEV_UB is not set
CONFIG_BLK_DEV_RAM=y
CONFIG_BLK_DEV_RAM_COUNT=16
CONFIG_BLK_DEV_RAM_SIZE=8192
CONFIG_BLK_DEV_RAM_BLOCKSIZE=1024
CONFIG_BLK_DEV_INITRD=y
# CONFIG_CDROM_PKTCDVD is not set
# CONFIG_ATA_OVER_ETH is not set

#
# ATA/ATAPI/MFM/RLL support
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
#
CONFIG_IDE=y
CONFIG_BLK_DEV_IDE=y

#
# Please see Documentation/ide.txt for help/info on IDE drives
#
# CONFIG_BLK_DEV_IDE_SATA is not set
# CONFIG_BLK_DEV_HD_IDE is not set
CONFIG_BLK_DEV_IDEDISK=y
# CONFIG_IDEDISK_MULTI_MODE is not set
CONFIG_BLK_DEV_IDECD=m
# CONFIG_BLK_DEV_IDETAPE is not set
CONFIG_BLK_DEV_IDEFLOPPY=m
CONFIG_BLK_DEV_IDESCSI=m
# CONFIG_IDE_TASK_IOCTL is not set

#
# IDE chipset support/bugfixes
#
CONFIG_IDE_GENERIC=y
# CONFIG_BLK_DEV_CMD640 is not set
CONFIG_BLK_DEV_IDEPNP=y
CONFIG_BLK_DEV_IDEPCI=y
CONFIG_IDEPCI_SHARE_IRQ=y
CONFIG_BLK_DEV_OFFBOARD=y
CONFIG_BLK_DEV_GENERIC=y
# CONFIG_BLK_DEV_OPTI621 is not set
# CONFIG_BLK_DEV_RZ1000 is not set
CONFIG_BLK_DEV_IDEDMA_PCI=y
# CONFIG_BLK_DEV_IDEDMA_FORCED is not set
CONFIG_IDEDMA_PCI_AUTO=y
# CONFIG_IDEDMA_ONLYDISK is not set
# CONFIG_BLK_DEV_AEC62XX is not set
# CONFIG_BLK_DEV_ALI15X3 is not set
# CONFIG_BLK_DEV_AMD74XX is not set
# CONFIG_BLK_DEV_ATIIXP is not set
# CONFIG_BLK_DEV_CMD64X is not set
# CONFIG_BLK_DEV_TRIFLEX is not set
# CONFIG_BLK_DEV_CY82C693 is not set
# CONFIG_BLK_DEV_CS5520 is not set
# CONFIG_BLK_DEV_CS5530 is not set
# CONFIG_BLK_DEV_CS5535 is not set
# CONFIG_BLK_DEV_HPT34X is not set
# CONFIG_BLK_DEV_HPT366 is not set
# CONFIG_BLK_DEV_SC1200 is not set
# CONFIG_BLK_DEV_PIIIX is not set
# CONFIG_BLK_DEV_IT821X is not set
# CONFIG_BLK_DEV_NS87415 is not set
CONFIG_BLK_DEV_PDC202XX_OLD=y
CONFIG_PDC202XX_BURST=y
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
CONFIG_BLK_DEV_PDC202XX_NEW=m
CONFIG_BLK_DEV_SVWKS=y
CONFIG_BLK_DEV_SIIMAGE=y
# CONFIG_BLK_DEV_SIS5513 is not set
# CONFIG_BLK_DEV_SLC90E66 is not set
# CONFIG_BLK_DEV_TRM290 is not set
# CONFIG_BLK_DEV_VIA82CXXX is not set
# CONFIG_IDE_ARM is not set
# CONFIG_IDE_CHIPSETS is not set
CONFIG_BLK_DEV_IDEDMA=y
# CONFIG_IDEDMA_IVB is not set
CONFIG_IDEDMA_AUTO=y
# CONFIG_BLK_DEV_HD is not set

#
# SCSI device support
#
CONFIG_RAID_ATTRS=m
CONFIG_SCSI=m
CONFIG_SCSI_PROC_FS=y

#
# SCSI support type (disk, tape, CD-ROM)
#
CONFIG_BLK_DEV_SD=m
CONFIG_CHR_DEV_ST=m
# CONFIG_CHR_DEV_OSST is not set
CONFIG_BLK_DEV_SR=m
# CONFIG_BLK_DEV_SR_VENDOR is not set
CONFIG_CHR_DEV_SG=m
# CONFIG_CHR_DEV_SCH is not set

#
# Some SCSI devices (e.g. CD jukebox) support multiple LUNs
#
# CONFIG_SCSI_MULTI_LUN is not set
CONFIG_SCSI_CONSTANTS=y
CONFIG_SCSI_LOGGING=y

#
# SCSI Transport Attributes
#
CONFIG_SCSI_SPI_ATTRS=m
# CONFIG_SCSI_FC_ATTRS is not set
# CONFIG_SCSI_ISCSI_ATTRS is not set
# CONFIG_SCSI_SAS_ATTRS is not set

#
# SCSI low-level drivers
#
# CONFIG_ISCSI_TCP is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_BLK_DEV_3W_XXXX_RAID is not set
# CONFIG_SCSI_3W_9XXX is not set
# CONFIG_SCSI_7000FASST is not set
# CONFIG_SCSI_ACARD is not set
# CONFIG_SCSI_AHA152X is not set
# CONFIG_SCSI_AHA1542 is not set
# CONFIG_SCSI_AACRAID is not set
CONFIG_SCSI_AIC7XXX=m
CONFIG_AIC7XXX_CMDS_PER_DEVICE=8
CONFIG_AIC7XXX_RESET_DELAY_MS=15000
# CONFIG_AIC7XXX_DEBUG_ENABLE is not set
CONFIG_AIC7XXX_DEBUG_MASK=0
# CONFIG_AIC7XXX_REG_PRETTY_PRINT is not set
# CONFIG_SCSI_AIC7XXX_OLD is not set
# CONFIG_SCSI_AIC79XX is not set
# CONFIG_SCSI_DPT_I2O is not set
# CONFIG_SCSI_ADVANSYS is not set
# CONFIG_SCSI_IN2000 is not set
# CONFIG_MEGARAID_NEWGEN is not set
# CONFIG_MEGARAID_LEGACY is not set
# CONFIG_MEGARAID_SAS is not set
CONFIG_SCSI_SATA=m
# CONFIG_SCSI_SATA_AHCI is not set
# CONFIG_SCSI_SATA_SVW is not set
# CONFIG_SCSI_ATA_PIIX is not set
# CONFIG_SCSI_SATA_MV is not set
# CONFIG_SCSI_SATA_NV is not set
# CONFIG_SCSI_PDC_ADMA is not set
# CONFIG_SCSI_HPTIOP is not set
# CONFIG_SCSI_SATA_QSTOR is not set
# CONFIG_SCSI_SATA_PROMISE is not set
# CONFIG_SCSI_SATA_SX4 is not set
CONFIG_SCSI_SATA_SIL=m
CONFIG_SCSI_SATA_SIL24=m
# CONFIG_SCSI_SATA_SIS is not set
# CONFIG_SCSI_SATA_ULI is not set
# CONFIG_SCSI_SATA_VIA is not set
# CONFIG_SCSI_SATA_VITESSE is not set
# CONFIG_SCSI_BUSLOGIC is not set
# CONFIG_SCSI_DMX3191D is not set
# CONFIG_SCSI_DTC3280 is not set
# CONFIG_SCSI_EATA is not set
# CONFIG_SCSI_FUTURE_DOMAIN is not set
# CONFIG_SCSI_GDTH is not set
# CONFIG_SCSI_GENERIC_NCR5380 is not set
# CONFIG_SCSI_GENERIC_NCR5380_MMIO is not set
# CONFIG_SCSI_IPS is not set
# CONFIG_SCSI_INITIO is not set
# CONFIG_SCSI_INIA100 is not set
# CONFIG_SCSI_PPA is not set
# CONFIG_SCSI_IMM is not set
```

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```
# CONFIG_SCSI_NCR53C406A is not set
CONFIG_SCSI_SYM53C8XX_2=m
CONFIG_SCSI_SYM53C8XX_DMA_ADDRESSING_MODE=1
CONFIG_SCSI_SYM53C8XX_DEFAULT_TAGS=16
CONFIG_SCSI_SYM53C8XX_MAX_TAGS=64
CONFIG_SCSI_SYM53C8XX_MMIO=y
# CONFIG_SCSI_IPR is not set
# CONFIG_SCSI_PAS16 is not set
# CONFIG_SCSI_PSI240I is not set
# CONFIG_SCSI_QLOGIC_FAS is not set
# CONFIG_SCSI_QLOGIC_1280 is not set
# CONFIG_SCSI_QLA_FC is not set
# CONFIG_SCSI_LPFC is not set
# CONFIG_SCSI_SYM53C416 is not set
# CONFIG_SCSI_DC395x is not set
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_T128 is not set
# CONFIG_SCSI_U14_34F is not set
# CONFIG_SCSI_ULTRASTOR is not set
# CONFIG_SCSI_NSP32 is not set
# CONFIG_SCSI_DEBUG is not set
```

```
#
# Old CD-ROM drivers (not SCSI, not IDE)
#
# CONFIG_CD_NO_IDESCSI is not set
```

```
#
# Multi-device support (RAID and LVM)
#
CONFIG_MD=y
CONFIG_BLK_DEV_MD=m
CONFIG_MD_LINEAR=m
CONFIG_MD_RAID0=m
CONFIG_MD_RAID1=m
# CONFIG_MD_RAID10 is not set
CONFIG_MD_RAID456=m
# CONFIG_MD_RAID5_RESHAPE is not set
CONFIG_MD_MULTIPATH=m
# CONFIG_MD_FAULTY is not set
CONFIG_BLK_DEV_DM=m
# CONFIG_DM_CRYPT is not set
# CONFIG_DM_SNAPSHOT is not set
# CONFIG_DM_MIRROR is not set
# CONFIG_DM_ZERO is not set
# CONFIG_DM_MULTIPATH is not set
```

```
#
# Fusion MPT device support
#
# CONFIG_FUSION is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_FUSION_SPI is not set
# CONFIG_FUSION_FC is not set
# CONFIG_FUSION_SAS is not set

#
# IEEE 1394 (FireWire) support
#
CONFIG_IEEE1394=m

#
# Subsystem Options
#
# CONFIG_IEEE1394_VERBOSEDEBUG is not set
# CONFIG_IEEE1394_OUI_DB is not set
# CONFIG_IEEE1394_EXTRA_CONFIG_ROMS is not set
# CONFIG_IEEE1394_EXPORT_FULL_API is not set

#
# Device Drivers
#
CONFIG_IEEE1394_PCILYNX=m
CONFIG_IEEE1394_OHCI1394=m

#
# Protocol Drivers
#
CONFIG_IEEE1394_VIDEO1394=m
CONFIG_IEEE1394_SBP2=m
# CONFIG_IEEE1394_SBP2_PHYS_DMA is not set
# CONFIG_IEEE1394_ETH1394 is not set
CONFIG_IEEE1394_DV1394=m
CONFIG_IEEE1394_RAWIO=m

#
# I2O device support
#
# CONFIG_I2O is not set

#
# Network device support
#
CONFIG_NETDEVICES=y
CONFIG_DUMMY=m
CONFIG_BONDING=m
CONFIG_EQUALIZER=m
CONFIG_TUN=m
# CONFIG_NET_SB1000 is not set

#
# ARCnet devices
#
```

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```
CONFIG_ARCNET=m
CONFIG_ARCNET_1201=m
CONFIG_ARCNET_1051=m
CONFIG_ARCNET_RAW=m
# CONFIG_ARCNET_CAP is not set
CONFIG_ARCNET_COM90xx=m
CONFIG_ARCNET_COM90xxIO=m
CONFIG_ARCNET_RIM_I=m
CONFIG_ARCNET_COM20020=m
# CONFIG_ARCNET_COM20020_ISA is not set
CONFIG_ARCNET_COM20020_PCI=m

#
# PHY device support
#
# CONFIG_PHYLIB is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
CONFIG_MII=m
# CONFIG_HAPPYMEAL is not set
# CONFIG_SUNGEM is not set
# CONFIG_CASSINI is not set
CONFIG_NET_VENDOR_3COM=y
# CONFIG_EL1 is not set
# CONFIG_EL2 is not set
# CONFIG_ELPLUS is not set
# CONFIG_EL16 is not set
# CONFIG_EL3 is not set
# CONFIG_3C515 is not set
CONFIG_VORTEX=m
CONFIG_TYPHOON=m
# CONFIG_LANCE is not set
# CONFIG_NET_VENDOR_SMC is not set
# CONFIG_NET_VENDOR_RACAL is not set

#
# Tulip family network device support
#
# CONFIG_NET_TULIP is not set
# CONFIG_AT1700 is not set
# CONFIG_DEPCA is not set
# CONFIG_HP100 is not set
# CONFIG_NET_ISA is not set
CONFIG_NET_PCI=y
# CONFIG_PCNET32 is not set
# CONFIG_AMD8111_ETH is not set
# CONFIG_ADAPTEC_STARFIRE is not set
# CONFIG_AC3200 is not set
```

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```
# CONFIG_APRICOT is not set
# CONFIG_B44 is not set
# CONFIG_FORCEDETH is not set
# CONFIG_CS89x0 is not set
# CONFIG_DGRS is not set
CONFIG_EEPRO100=m
CONFIG_E100=m
# CONFIG_FEALNX is not set
# CONFIG_NATSEMI is not set
# CONFIG_NE2K_PCI is not set
# CONFIG_8139CP is not set
# CONFIG_8139TOO is not set
# CONFIG_SIS900 is not set
# CONFIG_EPIC100 is not set
# CONFIG_SUNDANCE is not set
# CONFIG_TLAN is not set
# CONFIG_VIA_RHINE is not set
# CONFIG_NET_POCKET is not set

#
# Ethernet (1000 Mbit)
#
# CONFIG_ACENIC is not set
CONFIG_DL2K=m
CONFIG_E1000=m
CONFIG_E1000_NAPI=y
# CONFIG_E1000_DISABLE_PACKET_SPLIT is not set
CONFIG_NS83820=m
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
CONFIG_R8169=m
# CONFIG_R8169_NAPI is not set
# CONFIG_R8169_VLAN is not set
# CONFIG_SIS190 is not set
# CONFIG_SKGE is not set
# CONFIG_SKY2 is not set
CONFIG_SK98LIN=m
CONFIG_VIA_VELOCITY=m
CONFIG_TIGON3=m
CONFIG_BNX2=m

#
# Ethernet (10000 Mbit)
#
# CONFIG_CHELSIO_T1 is not set
# CONFIG_IXGB is not set
# CONFIG_S2IO is not set
# CONFIG_MYRI10GE is not set

#
# Token Ring devices
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
#
# CONFIG_TR is not set

#
# Wireless LAN (non-hamradio)
#
# CONFIG_NET_RADIO is not set

#
# Wan interfaces
#
# CONFIG_WAN is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_PLIP is not set
# CONFIG_PPP is not set
# CONFIG_SLIP is not set
# CONFIG_NET_FC is not set
# CONFIG_SHAPER is not set
# CONFIG_NETCONSOLE is not set
# CONFIG_NETPOLL is not set
# CONFIG_NET_POLL_CONTROLLER is not set

#
# ISDN subsystem
#
# CONFIG_ISDN is not set

#
# Telephony Support
#
CONFIG_PHONE=m
CONFIG_PHONE_IXJ=m

#
# Input device support
#
CONFIG_INPUT=y

#
# Userland interfaces
#
CONFIG_INPUT_MOUSEDEV=y
CONFIG_INPUT_MOUSEDEV_PSAUX=y
CONFIG_INPUT_MOUSEDEV_SCREEN_X=1024
CONFIG_INPUT_MOUSEDEV_SCREEN_Y=768
# CONFIG_INPUT_JOYDEV is not set
# CONFIG_INPUT_TSDEV is not set
CONFIG_INPUT_EVDEV=m
CONFIG_INPUT_EVBUG=m
```

```
#
# Input Device Drivers
#
CONFIG_INPUT_KEYBOARD=y
CONFIG_KEYBOARD_ATKBD=y
# CONFIG_KEYBOARD_SUNKBD is not set
# CONFIG_KEYBOARD_LKKBD is not set
# CONFIG_KEYBOARD_XTKBD is not set
# CONFIG_KEYBOARD_NEWTON is not set
CONFIG_INPUT_MOUSE=y
CONFIG_MOUSE_PS2=m
CONFIG_MOUSE_SERIAL=m
# CONFIG_MOUSE_INPORT is not set
# CONFIG_MOUSE_LOGIBM is not set
# CONFIG_MOUSE_PC110PAD is not set
CONFIG_MOUSE_VSXXXAA=m
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
CONFIG_INPUT_MISC=y
CONFIG_INPUT_PCSPKR=m
# CONFIG_INPUT_WISTRON_BTNS is not set
CONFIG_INPUT_UINPUT=m

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
CONFIG_SERIO_SERPORT=m
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PARKBD is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
# CONFIG_SERIO_RAW is not set
# CONFIG_GAMEPORT is not set

#
# Character devices
#
CONFIG_VT=y
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
# CONFIG_VT_HW_CONSOLE_BINDING is not set
CONFIG_SERIAL_NONSTANDARD=y
# CONFIG_COMPUTONE is not set
# CONFIG_ROCKETPORT is not set
# CONFIG_CYCLADES is not set
# CONFIG_DIGIEPCA is not set
# CONFIG_ESPSERIAL is not set
# CONFIG_MOXA_INTELLIO is not set
# CONFIG_MOXA_SMARTIO is not set
```

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```
# CONFIG_ISI is not set
# CONFIG_SYNCLINK is not set
# CONFIG_SYNCLINKMP is not set
# CONFIG_SYNCLINK_GT is not set
# CONFIG_N_HDLC is not set
# CONFIG_SPECIALIX is not set
# CONFIG_SX is not set
# CONFIG_RIO is not set
# CONFIG_STALDRV is not set

#
# Serial drivers
#
CONFIG_SERIAL_8250=y
CONFIG_SERIAL_8250_CONSOLE=y
CONFIG_SERIAL_8250_PCI=y
CONFIG_SERIAL_8250_PNP=y
CONFIG_SERIAL_8250_NR_UARTS=4
CONFIG_SERIAL_8250_RUNTIME_UARTS=4
CONFIG_SERIAL_8250_EXTENDED=y
CONFIG_SERIAL_8250_MANY_PORTS=y
CONFIG_SERIAL_8250_SHARE_IRQ=y
# CONFIG_SERIAL_8250_DETECT_IRQ is not set
CONFIG_SERIAL_8250_RSA=y
# CONFIG_SERIAL_8250_FOURPORT is not set
# CONFIG_SERIAL_8250_ACCENT is not set
# CONFIG_SERIAL_8250_BOCA is not set
# CONFIG_SERIAL_8250_HUB6 is not set

#
# Non-8250 serial port support
#
CONFIG_SERIAL_CORE=y
CONFIG_SERIAL_CORE_CONSOLE=y
# CONFIG_SERIAL_JSM is not set
CONFIG_UNIX98_PTYS=y
CONFIG_LEGACY_PTYS=y
CONFIG_LEGACY_PTY_COUNT=256
CONFIG_PRINTER=m
# CONFIG_LP_CONSOLE is not set
CONFIG_PPDEV=m
# CONFIG_TIPAR is not set

#
# IPMI
#
CONFIG_IPMI_HANDLER=m
# CONFIG_IPMI_PANIC_EVENT is not set
CONFIG_IPMI_DEVICE_INTERFACE=m
CONFIG_IPMI_SI=m
CONFIG_IPMI_WATCHDOG=m
```

```
CONFIG_IPMI_POWEROFF=m

#
# Watchdog Cards
#
# CONFIG_WATCHDOG is not set
# CONFIG_HW_RANDOM is not set
# CONFIG_NVRAM is not set
CONFIG_RTC=m
CONFIG_GEN_RTC=m
CONFIG_GEN_RTC_X=y
CONFIG_DTLK=m
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
# CONFIG_SONYPI is not set

#
# Ftape, the floppy tape device driver
#
# CONFIG_AGP is not set
CONFIG_DRM=m
# CONFIG_DRM_TDFX is not set
CONFIG_DRM_R128=m
# CONFIG_DRM_RADEON is not set
# CONFIG_DRM_MGA is not set
# CONFIG_DRM_VIA is not set
# CONFIG_DRM_SAVAGE is not set
# CONFIG_MWAVE is not set
CONFIG_PC8736x_GPIO=m
CONFIG_NSC_GPIO=m
# CONFIG_CS5535_GPIO is not set
CONFIG_RAW_DRIVER=m
CONFIG_MAX_RAW_DEVS=256
CONFIG_HPET=y
# CONFIG_HPET_RTC_IRQ is not set
CONFIG_HPET_MMAP=y
CONFIG_HANGCHECK_TIMER=m

#
# TPM devices
#
# CONFIG_TCG_TPM is not set
# CONFIG_TELCLOCK is not set

#
# I2C support
#
CONFIG_I2C=y
CONFIG_I2C_CHARDEV=m

#
```

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```
# I2C Algorithms
#
CONFIG_I2C_ALGOBIT=m
CONFIG_I2C_ALGOPCF=m
CONFIG_I2C_ALGOPCA=m

#
# I2C Hardware Bus support
#
# CONFIG_I2C_ALI1535 is not set
# CONFIG_I2C_ALI1563 is not set
# CONFIG_I2C_ALI15X3 is not set
# CONFIG_I2C_AMD756 is not set
# CONFIG_I2C_AMD8111 is not set
# CONFIG_I2C_I801 is not set
# CONFIG_I2C_I810 is not set
CONFIG_I2C_PII4=m
CONFIG_I2C_ISA=m
# CONFIG_I2C_NFORCE2 is not set
# CONFIG_I2C_OCORES is not set
CONFIG_I2C_PARPORT=m
CONFIG_I2C_PARPORT_LIGHT=m
# CONFIG_I2C_PROSAVAGE is not set
# CONFIG_I2C_SAVAGE4 is not set
# CONFIG_SCx200_ACB is not set
# CONFIG_I2C_SIS5595 is not set
# CONFIG_I2C_SIS630 is not set
# CONFIG_I2C_SIS96X is not set
# CONFIG_I2C_STUB is not set
# CONFIG_I2C_VIA is not set
# CONFIG_I2C_VIAPRO is not set
# CONFIG_I2C_VOODOO3 is not set
# CONFIG_I2C_PCA_ISA is not set

#
# Miscellaneous I2C Chip support
#
# CONFIG_SENSORS_DS1337 is not set
# CONFIG_SENSORS_DS1374 is not set
# CONFIG_SENSORS_EEPROM is not set
# CONFIG_SENSORS_PCF8574 is not set
# CONFIG_SENSORS_PCA9539 is not set
# CONFIG_SENSORS_PCF8591 is not set
# CONFIG_SENSORS_MAX6875 is not set
# CONFIG_I2C_DEBUG_CORE is not set
# CONFIG_I2C_DEBUG_ALGO is not set
# CONFIG_I2C_DEBUG_BUS is not set
# CONFIG_I2C_DEBUG_CHIP is not set

#
# SPI support
```

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```
#
# CONFIG_SPI is not set
# CONFIG_SPI_MASTER is not set

#
# Dallas's 1-wire bus
#

#
# Hardware Monitoring support
#
CONFIG_HWMON=m
CONFIG_HWMON_VID=m
# CONFIG_SENSORS_ABITUGURU is not set
CONFIG_SENSORS_ADM1021=m
CONFIG_SENSORS_ADM1025=m
CONFIG_SENSORS_ADM1026=m
CONFIG_SENSORS_ADM1031=m
CONFIG_SENSORS_ADM9240=m
CONFIG_SENSORS_ASB100=m
# CONFIG_SENSORS_ATXP1 is not set
CONFIG_SENSORS_DS1621=m
CONFIG_SENSORS_F71805F=m
CONFIG_SENSORS_FSCHER=m
CONFIG_SENSORS_FSCPOS=m
CONFIG_SENSORS_GL518SM=m
CONFIG_SENSORS_GL520SM=m
CONFIG_SENSORS_IT87=m
CONFIG_SENSORS_LM63=m
CONFIG_SENSORS_LM75=m
CONFIG_SENSORS_LM77=m
CONFIG_SENSORS_LM78=m
CONFIG_SENSORS_LM80=m
CONFIG_SENSORS_LM83=m
CONFIG_SENSORS_LM85=m
CONFIG_SENSORS_LM87=m
CONFIG_SENSORS_LM90=m
CONFIG_SENSORS_LM92=m
CONFIG_SENSORS_MAX1619=m
CONFIG_SENSORS_PC87360=m
CONFIG_SENSORS_SIS5595=m
CONFIG_SENSORS_SMSC47M1=m
CONFIG_SENSORS_SMSC47M192=m
CONFIG_SENSORS_SMSC47B397=m
CONFIG_SENSORS_VIA686A=m
CONFIG_SENSORS_VT8231=m
CONFIG_SENSORS_W83781D=m
CONFIG_SENSORS_W83791D=m
CONFIG_SENSORS_W83792D=m
CONFIG_SENSORS_W83L785TS=m
CONFIG_SENSORS_W83627HF=m
```

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```
CONFIG_SENSORS_W83627EHF=m
CONFIG_SENSORS_HDAPS=m
# CONFIG_HWMON_DEBUG_CHIP is not set
```

```
#
# Misc devices
#
# CONFIG_IBM_ASM is not set
```

```
#
# Multimedia devices
#
# CONFIG_VIDEO_DEV is not set
CONFIG_VIDEO_V4L2=y
```

```
#
# Digital Video Broadcasting Devices
#
CONFIG_DVB=y
CONFIG_DVB_CORE=m
```

```
#
# Supported SAA7146 based PCI Adapters
#
```

```
#
# Supported USB Adapters
#
# CONFIG_DVB_USB is not set
CONFIG_DVB_TTUSB_BUDGET=m
CONFIG_DVB_TTUSB_DEC=m
# CONFIG_DVB_CINERGYT2 is not set
```

```
#
# Supported FlexCopII (B2C2) Adapters
#
# CONFIG_DVB_B2C2_FLEXCOP is not set
```

```
#
# Supported BT878 Adapters
#
```

```
#
# Supported Pluto2 Adapters
#
# CONFIG_DVB_PLUTO2 is not set
```

```
#
# Supported DVB Frontends
#
```

```
#
# Customise DVB Frontends
#

#
# DVB-S (satellite) frontends
#
CONFIG_DVB_STV0299=m
CONFIG_DVB_CX24110=m
# CONFIG_DVB_CX24123 is not set
CONFIG_DVB_TDA8083=m
CONFIG_DVB_MT312=m
CONFIG_DVB_VES1X93=m
CONFIG_DVB_S5H1420=m

#
# DVB-T (terrestrial) frontends
#
CONFIG_DVB_SP8870=m
CONFIG_DVB_SP887X=m
CONFIG_DVB_CX22700=m
# CONFIG_DVB_CX22702 is not set
CONFIG_DVB_L64781=m
CONFIG_DVB_TDA1004X=m
CONFIG_DVB_NXT6000=m
CONFIG_DVB_MT352=m
CONFIG_DVB_ZL10353=m
# CONFIG_DVB_DIB3000MB is not set
# CONFIG_DVB_DIB3000MC is not set

#
# DVB-C (cable) frontends
#
CONFIG_DVB_VES1820=m
CONFIG_DVB_TDA10021=m
CONFIG_DVB_STV0297=m

#
# ATSC (North American/Korean Terrestrial/Cable DTV) frontends
#
# CONFIG_DVB_NXT200X is not set
CONFIG_DVB_OR51211=m
# CONFIG_DVB_OR51132 is not set
# CONFIG_DVB_BCM3510 is not set
CONFIG_DVB_LGDT330X=m

#
# Miscellaneous devices
#
CONFIG_DVB_PLL=m
CONFIG_DVB_LNBP21=m
```

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```
# CONFIG_DVB_ISL6421 is not set
# CONFIG_USB_DABUSB is not set

#
# Graphics support
#
CONFIG_FIRMWARE_EDID=y
# CONFIG_FB is not set

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
# CONFIG_VGACON_SOFT_SCROLLBACK is not set
CONFIG_VIDEO_SELECT=y
# CONFIG_MDA_CONSOLE is not set
CONFIG_DUMMY_CONSOLE=y
# CONFIG_BACKLIGHT_LCD_SUPPORT is not set

#
# Sound
#
# CONFIG_SOUND is not set

#
# USB support
#
CONFIG_USB_ARCH_HAS_HCD=y
CONFIG_USB_ARCH_HAS_OHCI=y
CONFIG_USB_ARCH_HAS_EHCI=y
CONFIG_USB=m
# CONFIG_USB_DEBUG is not set

#
# Miscellaneous USB options
#
CONFIG_USB_DEVICEFS=y
# CONFIG_USB_BANDWIDTH is not set
# CONFIG_USB_DYNAMIC_MINORS is not set
# CONFIG_USB_SUSPEND is not set
# CONFIG_USB_OTG is not set

#
# USB Host Controller Drivers
#
CONFIG_USB_EHCI_HCD=m
# CONFIG_USB_EHCI_SPLIT_ISO is not set
# CONFIG_USB_EHCI_ROOT_HUB_TT is not set
# CONFIG_USB_EHCI_TT_NEWSCHED is not set
# CONFIG_USB_ISP116X_HCD is not set
CONFIG_USB_OHCI_HCD=m
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_USB_OHCI_BIG_ENDIAN is not set
CONFIG_USB_OHCI_LITTLE_ENDIAN=y
CONFIG_USB_UHCI_HCD=m
# CONFIG_USB_SL811_HCD is not set

#
# USB Device Class drivers
#
CONFIG_USB_ACM=m
CONFIG_USB_PRINTER=m

#
# NOTE: USB_STORAGE enables SCSI, and 'SCSI disk support'
#

#
# may also be needed; see USB_STORAGE Help for more information
#
CONFIG_USB_STORAGE=m
# CONFIG_USB_STORAGE_DEBUG is not set
# CONFIG_USB_STORAGE_DATAFAB is not set
CONFIG_USB_STORAGE_FREECOM=y
CONFIG_USB_STORAGE_ISD200=y
CONFIG_USB_STORAGE_DPCM=y
# CONFIG_USB_STORAGE_USBAT is not set
# CONFIG_USB_STORAGE_SDDR09 is not set
# CONFIG_USB_STORAGE_SDDR55 is not set
# CONFIG_USB_STORAGE_JUMPSHOT is not set
# CONFIG_USB_STORAGE_ALAUDA is not set
# CONFIG_USB_LIBUSUAL is not set

#
# USB Input Devices
#
CONFIG_USB_HID=m
CONFIG_USB_HIDINPUT=y
# CONFIG_USB_HIDINPUT_POWERBOOK is not set
# CONFIG_HID_FF is not set
CONFIG_USB_HIDDEV=y

#
# USB HID Boot Protocol drivers
#
CONFIG_USB_KBD=m
CONFIG_USB_MOUSE=m
# CONFIG_USB_AIPTEK is not set
# CONFIG_USB_WACOM is not set
# CONFIG_USB_ACECAD is not set
# CONFIG_USB_KBTAB is not set
# CONFIG_USB_POWERMATE is not set
# CONFIG_USB_TOUCHSCREEN is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_USB_YEALINK is not set
# CONFIG_USB_XPAD is not set
# CONFIG_USB_ATI_REMOTE is not set
# CONFIG_USB_ATI_REMOTE2 is not set
# CONFIG_USB_KEYSPAN_REMOTE is not set
# CONFIG_USB_APPLETOUCH is not set

#
# USB Imaging devices
#
# CONFIG_USB_MDC800 is not set
# CONFIG_USB_MICROTEK is not set

#
# USB Network Adapters
#
# CONFIG_USB_CATC is not set
# CONFIG_USB_KAWETH is not set
# CONFIG_USB_PEGASUS is not set
# CONFIG_USB_RTL8150 is not set
# CONFIG_USB_USBNET is not set
CONFIG_USB_MON=y

#
# USB port drivers
#
# CONFIG_USB_USS720 is not set

#
# USB Serial Converter support
#
# CONFIG_USB_SERIAL is not set

#
# USB Miscellaneous drivers
#
# CONFIG_USB_EMI62 is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_RIO500 is not set
# CONFIG_USB_LEGOTOWER is not set
CONFIG_USB_LCD=m
CONFIG_USB_LED=m
# CONFIG_USB_CYPRESS_CY7C63 is not set
# CONFIG_USB_CYTHERM is not set
# CONFIG_USB_PHIDGETKIT is not set
# CONFIG_USB_PHIDGETSERVO is not set
# CONFIG_USB_IDMOUSE is not set
# CONFIG_USB_APPLIEDDISPLAY is not set
# CONFIG_USB_SISUSBVGA is not set
# CONFIG_USB_LD is not set
```

## Kernel 2.6 SMP very slow with ServerWorks LE Chipset

```
# CONFIG_USB_TEST is not set

#
# USB DSL modem support
#

#
# USB Gadget Support
#
# CONFIG_USB_GADGET is not set

#
# MMC/SD Card support
#
# CONFIG_MMC is not set

#
# LED devices
#
# CONFIG_NEW_LEDS is not set

#
# LED drivers
#

#
# LED Triggers
#

#
# InfiniBand support
#
# CONFIG_INFINIBAND is not set

#
# EDAC – error detection and reporting (RAS) (EXPERIMENTAL)
#
CONFIG_EDAC=y

#
# Reporting subsystems
#
# CONFIG_EDAC_DEBUG is not set
CONFIG_EDAC_MM_EDAC=y
# CONFIG_EDAC_AMD76X is not set
# CONFIG_EDAC_E7XXX is not set
# CONFIG_EDAC_E752X is not set
# CONFIG_EDAC_I82875P is not set
# CONFIG_EDAC_I82860 is not set
# CONFIG_EDAC_R82600 is not set
CONFIG_EDAC_POLL=y
```

```
#
# Real Time Clock
#
# CONFIG_RTC_CLASS is not set

#
# DMA Engine support
#
# CONFIG_DMA_ENGINE is not set

#
# DMA Clients
#

#
# DMA Devices
#

#
# File systems
#
CONFIG_EXT2_FS=y
CONFIG_EXT2_FS_XATTR=y
CONFIG_EXT2_FS_POSIX_ACL=y
CONFIG_EXT2_FS_SECURITY=y
# CONFIG_EXT2_FS_XIP is not set
CONFIG_EXT3_FS=y
CONFIG_EXT3_FS_XATTR=y
CONFIG_EXT3_FS_POSIX_ACL=y
CONFIG_EXT3_FS_SECURITY=y
CONFIG_JBD=y
# CONFIG_JBD_DEBUG is not set
CONFIG_FS_MBCACHE=y
CONFIG_REISERFS_FS=m
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_REISERFS_FS_XATTR is not set
CONFIG_JFS_FS=m
CONFIG_JFS_POSIX_ACL=y
# CONFIG_JFS_SECURITY is not set
# CONFIG_JFS_DEBUG is not set
CONFIG_JFS_STATISTICS=y
CONFIG_FS_POSIX_ACL=y
CONFIG_XFS_FS=m
CONFIG_XFS_QUOTA=y
CONFIG_XFS_SECURITY=y
CONFIG_XFS_POSIX_ACL=y
CONFIG_XFS_RT=y
# CONFIG_OCFS2_FS is not set
CONFIG_MINIX_FS=m
```

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```
CONFIG_ROMFS_FS=m
CONFIG_INOTIFY=y
CONFIG_INOTIFY_USER=y
CONFIG_QUOTA=y
CONFIG_QFMT_V1=m
CONFIG_QFMT_V2=m
CONFIG_QUOTACTL=y
CONFIG_DNOTIFY=y
CONFIG_AUTOFS_FS=m
CONFIG_AUTOFS4_FS=m
# CONFIG_FUSE_FS is not set

#
# CD-ROM/DVD Filesystems
#
CONFIG_ISO9660_FS=m
CONFIG_JOLIET=y
CONFIG_ZISOFS=y
CONFIG_ZISOFS_FS=m
CONFIG_UDF_FS=m
CONFIG_UDF_NLS=y

#
# DOS/FAT/NT Filesystems
#
CONFIG_FAT_FS=m
CONFIG_MSDOS_FS=m
CONFIG_VFAT_FS=m
CONFIG_FAT_DEFAULT_CODEPAGE=437
CONFIG_FAT_DEFAULT_IOCHARSET="iso8859-1"
CONFIG_NTFS_FS=m
# CONFIG_NTFS_DEBUG is not set
# CONFIG_NTFS_RW is not set

#
# Pseudo filesystems
#
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_SYSFS=y
CONFIG_TMPFS=y
# CONFIG_HUGETLBFS is not set
# CONFIG_HUGETLB_PAGE is not set
CONFIG_RAMFS=y
# CONFIG_CONFIGFS_FS is not set

#
# Miscellaneous filesystems
#
# CONFIG_ADFS_FS is not set
# CONFIG_AFFS_FS is not set
```

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```
# CONFIG_HFS_FS is not set
CONFIG_HFSPLUS_FS=m
# CONFIG_BEFS_FS is not set
# CONFIG_BFS_FS is not set
# CONFIG_EFS_FS is not set
CONFIG_CRAMFS=y
CONFIG_VXFS_FS=m
CONFIG_HPFS_FS=m
CONFIG_QNX4FS_FS=m
CONFIG_SYSV_FS=m
CONFIG_UFS_FS=m
# CONFIG_UFS_FS_WRITE is not set
# CONFIG_UFS_DEBUG is not set

#
# Network File Systems
#
CONFIG_NFS_FS=m
CONFIG_NFS_V3=y
# CONFIG_NFS_V3_ACL is not set
# CONFIG_NFS_V4 is not set
# CONFIG_NFS_DIRECTIO is not set
CONFIG_NFSD=m
CONFIG_NFSD_V3=y
# CONFIG_NFSD_V3_ACL is not set
# CONFIG_NFSD_V4 is not set
CONFIG_NFSD_TCP=y
CONFIG_LOCKD=m
CONFIG_LOCKD_V4=y
CONFIG_EXPORTFS=m
CONFIG_NFS_COMMON=y
CONFIG_SUNRPC=m
# CONFIG_RPCSEC_GSS_KRB5 is not set
# CONFIG_RPCSEC_GSS_SPKM3 is not set
CONFIG_SMB_FS=m
# CONFIG_SMB_NLS_DEFAULT is not set
CONFIG_CIFS=m
# CONFIG_CIFS_STATS is not set
# CONFIG_CIFS_WEAK_PW_HASH is not set
# CONFIG_CIFS_XATTR is not set
# CONFIG_CIFS_DEBUG2 is not set
# CONFIG_CIFS_EXPERIMENTAL is not set
CONFIG_NCP_FS=m
CONFIG_NCPFS_PACKET_SIGNING=y
CONFIG_NCPFS_IOCTL_LOCKING=y
CONFIG_NCPFS_STRONG=y
CONFIG_NCPFS_NFS_NS=y
CONFIG_NCPFS_OS2_NS=y
# CONFIG_NCPFS_SMALLDOS is not set
CONFIG_NCPFS_NLS=y
CONFIG_NCPFS_EXTRAS=y
```

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```
CONFIG_CODA_FS=m
# CONFIG_CODA_FS_OLD_API is not set
# CONFIG_AFS_FS is not set
# CONFIG_9P_FS is not set

#
# Partition Types
#
CONFIG_PARTITION_ADVANCED=y
CONFIG_ACORN_PARTITION=y
CONFIG_ACORN_PARTITION_CUMANA=y
# CONFIG_ACORN_PARTITION_EESOX is not set
CONFIG_ACORN_PARTITION_ICS=y
# CONFIG_ACORN_PARTITION_ADFS is not set
# CONFIG_ACORN_PARTITION_POWERTEC is not set
CONFIG_ACORN_PARTITION_RISCIX=y
CONFIG_OSF_PARTITION=y
CONFIG_AMIGA_PARTITION=y
CONFIG_ATARI_PARTITION=y
CONFIG_MAC_PARTITION=y
CONFIG_MSDOS_PARTITION=y
CONFIG_BSD_DISKLABEL=y
CONFIG_MINIX_SUBPARTITION=y
CONFIG_SOLARIS_X86_PARTITION=y
CONFIG_UNIXWARE_DISKLABEL=y
CONFIG_LDM_PARTITION=y
# CONFIG_LDM_DEBUG is not set
CONFIG_SGI_PARTITION=y
CONFIG_ULTRIX_PARTITION=y
CONFIG_SUN_PARTITION=y
# CONFIG_KARMA_PARTITION is not set
CONFIG_EFI_PARTITION=y

#
# Native Language Support
#
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="cp437"
CONFIG_NLS_CODEPAGE_437=m
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
CONFIG_NLS_CODEPAGE_850=m
# CONFIG_NLS_CODEPAGE_852 is not set
# CONFIG_NLS_CODEPAGE_855 is not set
# CONFIG_NLS_CODEPAGE_857 is not set
# CONFIG_NLS_CODEPAGE_860 is not set
# CONFIG_NLS_CODEPAGE_861 is not set
# CONFIG_NLS_CODEPAGE_862 is not set
# CONFIG_NLS_CODEPAGE_863 is not set
# CONFIG_NLS_CODEPAGE_864 is not set
# CONFIG_NLS_CODEPAGE_865 is not set
```

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```
# CONFIG_NLS_CODEPAGE_866 is not set
# CONFIG_NLS_CODEPAGE_869 is not set
# CONFIG_NLS_CODEPAGE_936 is not set
# CONFIG_NLS_CODEPAGE_950 is not set
# CONFIG_NLS_CODEPAGE_932 is not set
# CONFIG_NLS_CODEPAGE_949 is not set
# CONFIG_NLS_CODEPAGE_874 is not set
# CONFIG_NLS_ISO8859_8 is not set
# CONFIG_NLS_CODEPAGE_1250 is not set
# CONFIG_NLS_CODEPAGE_1251 is not set
CONFIG_NLS_ASCII=m
# CONFIG_NLS_ISO8859_1 is not set
# CONFIG_NLS_ISO8859_2 is not set
# CONFIG_NLS_ISO8859_3 is not set
# CONFIG_NLS_ISO8859_4 is not set
# CONFIG_NLS_ISO8859_5 is not set
# CONFIG_NLS_ISO8859_6 is not set
# CONFIG_NLS_ISO8859_7 is not set
# CONFIG_NLS_ISO8859_9 is not set
# CONFIG_NLS_ISO8859_13 is not set
# CONFIG_NLS_ISO8859_14 is not set
CONFIG_NLS_ISO8859_15=m
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
CONFIG_NLS_UTF8=m

#
# Instrumentation Support
#
# CONFIG_PROFILING is not set
# CONFIG_KPROBES is not set

#
# Kernel hacking
#
CONFIG_TRACE_IRQFLAGS_SUPPORT=y
# CONFIG_PRINTK_TIME is not set
# CONFIG_MAGIC_SYSRQ is not set
# CONFIG_UNUSED_SYMBOLS is not set
# CONFIG_DEBUG_KERNEL is not set
CONFIG_LOG_BUF_SHIFT=15
CONFIG_DEBUG_BUGVERBOSE=y
# CONFIG_DEBUG_FS is not set
# CONFIG_UNWIND_INFO is not set
CONFIG_EARLY_PRINTK=y
CONFIG_X86_FIND_SMP_CONFIG=y
CONFIG_X86_MPPARSE=y
CONFIG_DOUBLEFAULT=y

#
# Security options
```

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```
#  
# CONFIG_KEYS is not set  
# CONFIG_SECURITY is not set  
  
#  
# Cryptographic options  
#  
CONFIG_CRYPT=y  
CONFIG_CRYPT_HMAC=y  
CONFIG_CRYPT_NULL=m  
CONFIG_CRYPT_MD4=m  
CONFIG_CRYPT_MD5=y  
CONFIG_CRYPT_SHA1=m  
CONFIG_CRYPT_SHA256=m  
CONFIG_CRYPT_SHA512=m  
# CONFIG_CRYPT_WP512 is not set  
# CONFIG_CRYPT_TGR192 is not set  
CONFIG_CRYPT_DES=m  
CONFIG_CRYPT_BLOWFISH=m  
CONFIG_CRYPT_TWOFISH=m  
CONFIG_CRYPT_SERPENT=m  
# CONFIG_CRYPT_AES is not set  
CONFIG_CRYPT_AES_586=m  
CONFIG_CRYPT_CAST5
```