

# nForce Pro 2200 losing ticks

---

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg09257.html>

---

- *From:* Michael Madore <[michael.madore@xxxxxxxxx](mailto:michael.madore@xxxxxxxxx)>
  - *Date:* Tue, 24 Jan 2006 13:54:57 -0800
- 

Hi,

I am receiving the following error message on an nForce Pro 2200 based system:

Losing some ticks... checking if CPU frequency changed.

Booting the system with `report_lost_ticks` gives a continuous stream of:

```
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x45/0xca
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
time.c: Lost 1 timer tick(s)! rip __do_softirq+0x39/0x9b
time.c: Lost 1 timer tick(s)! rip default_idle+0x2a/0x52
```

The kernel was originally 2.6.9-22.ELsmp. However 2.6.16-rc1 gives the same results.

I have tried both the onboard sata\_nv and an addon sata\_sil controller. Disabling the onboard ethernet does not help either.

Since this is an Opteron platform I initially thought it might be related to the unsynced TSC issue. However booting with `idle=poll` does not help. As a matter of fact booting with a uniprocessor kernel doesn't help either. I have attached my boot log and kernel config in case it is helpful. Let me know if I can provide any more information or testing.

Thanks

Mike

nForce Pro 2200 losing ticks

```
# cat /proc/cpuinfo
```

```
processor : 0
vendor_id : AuthenticAMD
cpu family : 15
model : 33
model name : Dual Core AMD Opteron(tm) Processor 280
stepping : 2
cpu MHz : 2400.016
cache size : 1024 KB
physical id : 0
siblings : 2
core id : 0
cpu cores : 2
fpu : yes
fpu_exception : yes
cpuid level : 1
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt lm
3dnowext 3dnow pni lahf_lm cmp_legacy
bogomips : 4805.32
TLB size : 1024 4K pages
clflush size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management: ts fid vid ttp
```

```
processor : 1
vendor_id : AuthenticAMD
cpu family : 15
model : 33
model name : Dual Core AMD Opteron(tm) Processor 280
stepping : 2
cpu MHz : 2400.016
cache size : 1024 KB
physical id : 0
siblings : 2
core id : 1
cpu cores : 2
fpu : yes
fpu_exception : yes
cpuid level : 1
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt lm
3dnowext 3dnow pni lahf_lm cmp_legacy
bogomips : 4800.35
TLB size : 1024 4K pages
clflush size : 64
```

## nForce Pro 2200 losing ticks

cache\_alignment : 64  
address sizes : 40 bits physical, 48 bits virtual  
power management: ts fid vid ttp

processor : 2  
vendor\_id : AuthenticAMD  
cpu family : 15  
model : 33  
model name : Dual Core AMD Opteron(tm) Processor 280  
stepping : 2  
cpu MHz : 2400.016  
cache size : 1024 KB  
physical id : 1  
siblings : 2  
core id : 0  
cpu cores : 2  
fpu : yes  
fpu\_exception : yes  
cpuid level : 1  
wp : yes  
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov  
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt lm  
3dnowext 3dnow pni lahf\_lm cmp\_legacy  
bogomips : 4800.35  
TLB size : 1024 4K pages  
clflush size : 64  
cache\_alignment : 64  
address sizes : 40 bits physical, 48 bits virtual  
power management: ts fid vid ttp

processor : 3  
vendor\_id : AuthenticAMD  
cpu family : 15  
model : 33  
model name : Dual Core AMD Opteron(tm) Processor 280  
stepping : 2  
cpu MHz : 2400.016  
cache size : 1024 KB  
physical id : 1  
siblings : 2  
core id : 1  
cpu cores : 2  
fpu : yes  
fpu\_exception : yes  
cpuid level : 1  
wp : yes  
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov  
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt lm  
3dnowext 3dnow pni lahf\_lm cmp\_legacy  
bogomips : 4800.47  
TLB size : 1024 4K pages

## nForce Pro 2200 losing ticks

clflush size : 64  
cache\_alignment : 64  
address sizes : 40 bits physical, 48 bits virtual  
power management: ts fid vid ttp

# lspci

00:00.0 Memory controller: nVidia Corporation CK804 Memory Controller (rev a3)  
00:01.0 ISA bridge: nVidia Corporation CK804 ISA Bridge (rev a3)  
00:01.1 SMBus: nVidia Corporation CK804 SMBus (rev a2)  
00:02.0 USB Controller: nVidia Corporation CK804 USB Controller (rev a2)  
00:02.1 USB Controller: nVidia Corporation CK804 USB Controller (rev a3)  
00:04.0 Multimedia audio controller: nVidia Corporation CK804 AC'97  
Audio Controller (rev a2)  
00:06.0 IDE interface: nVidia Corporation CK804 IDE (rev f2)  
00:07.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)  
00:08.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)  
00:09.0 PCI bridge: nVidia Corporation CK804 PCI Bridge (rev a2)  
00:0a.0 Bridge: nVidia Corporation CK804 Ethernet Controller (rev a3)  
00:0d.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev a3)  
00:0e.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev a3)  
00:18.0 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] HyperTransport Technology Configuration  
00:18.1 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] Address Map  
00:18.2 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] DRAM Controller  
00:18.3 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] Miscellaneous Control  
00:19.0 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] HyperTransport Technology Configuration  
00:19.1 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] Address Map  
00:19.2 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] DRAM Controller  
00:19.3 Host bridge: Advanced Micro Devices [AMD] K8  
[Athlon64/Opteron] Miscellaneous Control  
01:00.0 VGA compatible controller: nVidia Corporation: Unknown device  
0092 (rev a1)  
03:02.0 Mass storage controller: Silicon Image, Inc. SiI 3112  
[SATALink/SATARaid] Serial ATA Controller (rev 01)  
80:00.0 Memory controller: nVidia Corporation CK804 Memory Controller (rev a3)  
80:01.0 Memory controller: nVidia Corporation CK804 Memory Controller (rev a3)  
80:07.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)  
80:08.0 IDE interface: nVidia Corporation CK804 Serial ATA Controller (rev f3)  
80:0a.0 Bridge: nVidia Corporation CK804 Ethernet Controller (rev a3)  
80:0d.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev a3)  
80:0e.0 PCI bridge: nVidia Corporation CK804 PCIE Bridge (rev a3)

# lsmod

Module Size Used by  
ipv6 263552 12

nForce Pro 2200 losing ticks

nForce Pro 2200 losing ticks

sunrpc 158280 1  
ext3 129936 2  
jbd 60072 1 ext3  
sata\_sil 10884 3  
libata 60568 1 sata\_sil  
sd\_mod 17920 4  
scsi\_mod 146800 2 libata,sd\_mod

# dmesg

Bootdata ok (command line is ro root=LABEL=/ report\_lost\_ticks numa=on)  
Linux version 2.6.16-rc1 (root@test) (gcc version 3.4.4 20050721 (Red  
Hat 3.4.4-2)) #1 SMP Tue Jan 24 06:52:29 EST 2006  
BIOS-provided physical RAM map:  
BIOS-e820: 0000000000000000 - 000000000009fc00 (usable)  
BIOS-e820: 000000000009fc00 - 00000000000a0000 (reserved)  
BIOS-e820: 00000000000e6000 - 0000000000100000 (reserved)  
BIOS-e820: 0000000000100000 - 00000000b9fd0000 (usable)  
BIOS-e820: 00000000b9fd0000 - 00000000b9fde000 (ACPI data)  
BIOS-e820: 00000000b9fde000 - 00000000ba000000 (ACPI NVS)  
BIOS-e820: 00000000fec00000 - 00000000fec01000 (reserved)  
BIOS-e820: 00000000fee00000 - 00000000fee01000 (reserved)  
BIOS-e820: 00000000ff780000 - 0000000100000000 (reserved)  
BIOS-e820: 0000000100000000 - 0000000200000000 (usable)  
ACPI: RSDP (v002 ACPIAM ) @ 0x000000000000f8830  
ACPI: XSDT (v001 A M I OEMXSDT 0x12000521 MSFT 0x00000097) @  
0x00000000b9fd0100  
ACPI: FADT (v003 A M I OEMFACP 0x12000521 MSFT 0x00000097) @  
0x00000000b9fd0290  
ACPI: MADT (v001 A M I OEMAPIC 0x12000521 MSFT 0x00000097) @  
0x00000000b9fd0390  
ACPI: OEMB (v001 A M I AMI\_OEM 0x12000521 MSFT 0x00000097) @  
0x00000000b9fde040  
ACPI: SRAT (v001 A M I OEMSRAT 0x12000521 MSFT 0x00000097) @  
0x00000000b9fd5be0  
ACPI: DSDT (v001 1ACAI 1ACAI003 0x00000003 INTL 0x02002026) @  
0x0000000000000000  
SRAT: PXM 0 -> APIC 0 -> Node 0  
SRAT: PXM 0 -> APIC 1 -> Node 0  
SRAT: PXM 1 -> APIC 2 -> Node 1  
SRAT: PXM 1 -> APIC 3 -> Node 1  
SRAT: Node 0 PXM 0 100000-ba000000  
SRAT: Node 1 PXM 1 100000000-200000000  
SRAT: Node 0 PXM 0 100000-100000000  
SRAT: Node 0 PXM 0 0-100000000  
NUMA: Using 32 for the hash shift.  
Bootmem setup node 0 0000000000000000-0000000100000000  
Bootmem setup node 1 0000000100000000-0000000200000000  
On node 0 totalpages: 744318  
DMA zone: 2926 pages, LIFO batch:0  
DMA32 zone: 741392 pages, LIFO batch:31  
Normal zone: 0 pages, LIFO batch:0

## nForce Pro 2200 losing ticks

HighMem zone: 0 pages, LIFO batch:0  
On node 1 totalpages: 1032192  
DMA zone: 0 pages, LIFO batch:0  
DMA32 zone: 0 pages, LIFO batch:0  
Normal zone: 1032192 pages, LIFO batch:31  
HighMem zone: 0 pages, LIFO batch:0  
Nvidia board detected. Ignoring ACPI timer override.  
ACPI: PM-Timer IO Port: 0x4008  
ACPI: Local APIC address 0xfe00000  
ACPI: LAPIC (acpi\_id[0x01] lapic\_id[0x00] enabled)  
Processor #0 15:1 APIC version 16  
ACPI: LAPIC (acpi\_id[0x02] lapic\_id[0x01] enabled)  
Processor #1 15:1 APIC version 16  
ACPI: LAPIC (acpi\_id[0x03] lapic\_id[0x02] enabled)  
Processor #2 15:1 APIC version 16  
ACPI: LAPIC (acpi\_id[0x04] lapic\_id[0x03] enabled)  
Processor #3 15:1 APIC version 16  
ACPI: IOAPIC (id[0x04] address[0xfec00000] gsi\_base[0])  
IOAPIC[0]: apic\_id 4, version 17, address 0xfec00000, GSI 0-23  
ACPI: IOAPIC (id[0x05] address[0xdfec000] gsi\_base[24])  
IOAPIC[1]: apic\_id 5, version 17, address 0xdfec000, GSI 24-47  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 0 global\_irq 2 dfl dfl)  
ACPI: BIOS IRQ0 pin2 override ignored.  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 9 global\_irq 9 high level)  
ACPI: IRQ9 used by override.  
Setting APIC routing to flat  
Using ACPI (MADT) for SMP configuration information  
Allocating PCI resources starting at c0000000 (gap: ba000000:44c00000)  
Checking aperture...  
CPU 0: aperture @ 8000000 size 32 MB  
Aperture from northbridge cpu 0 too small (32 MB)  
No AGP bridge found  
Your BIOS doesn't leave a aperture memory hole  
Please enable the IOMMU option in the BIOS setup  
This costs you 64 MB of RAM  
Mapping aperture over 65536 KB of RAM @ 8000000  
Built 2 zonelists  
Kernel command line: ro root=LABEL=/ report\_lost\_ticks numa=on  
Initializing CPU#0  
PID hash table entries: 4096 (order: 12, 131072 bytes)  
time.c: Using 3.579545 MHz PM timer.  
time.c: Detected 2400.016 MHz processor.  
Console: colour VGA+ 80x25  
Dentry cache hash table entries: 1048576 (order: 11, 8388608 bytes)  
Inode-cache hash table entries: 524288 (order: 10, 4194304 bytes)  
PCI-DMA: Disabling IOMMU.  
WARNING more than 4GB of memory but IOMMU not compiled in.  
WARNING 32bit PCI may malfunction.  
You might want to enable CONFIG\_GART\_IOMMU  
Memory: 7026668k/8388608k available (2192k kernel code, 214480k reserved, 928k data, 240k init)

## nForce Pro 2200 losing ticks

Calibrating delay using timer specific routine.. 4805.32 BogoMIPS (lpj=9610656)  
Security Framework v1.0.0 initialized  
SELinux: Initializing.  
SELinux: Starting in permissive mode  
selinux\_register\_security: Registering secondary module capability  
Capability LSM initialized as secondary  
Mount-cache hash table entries: 256  
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)  
CPU: L2 Cache: 1024K (64 bytes/line)  
CPU 0(2) -> Node 0 -> Core 0  
mtrr: v2.0 (20020519)  
Using local APIC timer interrupts.  
Detected 12.500 MHz APIC timer.  
time.c: Lost 10 timer tick(s)! rip setup\_boot\_APIC\_clock+0xdb/0xde)  
Booting processor 1/4 APIC 0x1  
Initializing CPU#1  
Calibrating delay using timer specific routine.. 4800.35 BogoMIPS (lpj=9600702)  
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)  
CPU: L2 Cache: 1024K (64 bytes/line)  
CPU 1(2) -> Node 0 -> Core 1  
Dual Core AMD Opteron(tm) Processor 280 stepping 02  
CPU 1: Syncing TSC to CPU 0.  
CPU 1: synchronized TSC with CPU 0 (last diff 0 cycles, maxerr 621 cycles)  
Booting processor 2/4 APIC 0x2  
Initializing CPU#2  
Calibrating delay using timer specific routine.. 4800.35 BogoMIPS (lpj=9600708)  
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)  
CPU: L2 Cache: 1024K (64 bytes/line)  
CPU 2(2) -> Node 1 -> Core 0  
Dual Core AMD Opteron(tm) Processor 280 stepping 02  
CPU 2: Syncing TSC to CPU 0.  
CPU 2: synchronized TSC with CPU 0 (last diff 1 cycles, maxerr 1155 cycles)  
Booting processor 3/4 APIC 0x3  
Initializing CPU#3  
Calibrating delay using timer specific routine.. 4800.47 BogoMIPS (lpj=9600941)  
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)  
CPU: L2 Cache: 1024K (64 bytes/line)  
CPU 3(2) -> Node 1 -> Core 1  
Dual Core AMD Opteron(tm) Processor 280 stepping 02  
CPU 3: Syncing TSC to CPU 0.  
CPU 3: synchronized TSC with CPU 0 (last diff 4 cycles, maxerr 1155 cycles)  
Brought up 4 CPUs  
Disabling vsyscall due to use of PM timer  
time.c: Using PM based timekeeping.  
testing NMI watchdog ... <4>time.c: Lost 80 timer tick(s)! rip  
nmi\_cpu\_busy+0x5/0xa)  
OK.  
migration\_cost=263,346  
checking if image is initramfs... it is  
Freeing initrd memory: 919k freed  
DMI 2.3 present.

## nForce Pro 2200 losing ticks

NET: Registered protocol family 16  
ACPI: bus type pci registered  
PCI: Using configuration type 1  
ACPI: Subsystem revision 20050902  
ACPI: Interpreter enabled  
ACPI: Using IOAPIC for interrupt routing  
ACPI: PCI Root Bridge [PCI0] (0000:00)  
PCI: Probing PCI hardware (bus 00)  
PCI: Transparent bridge - 0000:00:09.0  
Boot video device is 0000:01:00.0  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.\_PRT]  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.POP1.\_PRT]  
ACPI: PCI Root Bridge [PCIB] (0000:80)  
PCI: Probing PCI hardware (bus 80)  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCIB.\_PRT]  
ACPI: PCI Interrupt Link [LNKA] (IRQs 16 17 18 19) \*9  
ACPI: PCI Interrupt Link [LNKB] (IRQs 16 17 18 19) \*9  
ACPI: PCI Interrupt Link [LNKC] (IRQs 16 17 18 19) \*10  
ACPI: PCI Interrupt Link [LNKD] (IRQs 16 17 18 19) \*9  
ACPI: PCI Interrupt Link [LNKE] (IRQs 16 17 18 19) \*0, disabled.  
ACPI: PCI Interrupt Link [LUS0] (IRQs 20 21 22) \*9  
ACPI: PCI Interrupt Link [LUS1] (IRQs 20 21 22) \*0, disabled.  
ACPI: PCI Interrupt Link [LUS2] (IRQs 20 21 22) \*9  
ACPI: PCI Interrupt Link [LKLN] (IRQs 20 21 22) \*11  
ACPI: PCI Interrupt Link [LAUI] (IRQs 20 21 22) \*9  
ACPI: PCI Interrupt Link [LKMO] (IRQs 20 21 22) \*0, disabled.  
ACPI: PCI Interrupt Link [LKSM] (IRQs 20 21 22) \*0, disabled.  
ACPI: PCI Interrupt Link [LTID] (IRQs 20 21 22) \*9  
ACPI: PCI Interrupt Link [LTIE] (IRQs 20 21 22) \*5  
ACPI: PCI Interrupt Link [LATA] (IRQs 20 21 22) \*14  
ACPI: PCI Interrupt Link [LN2A] (IRQs 40 41 42 43) \*0, disabled.  
ACPI: PCI Interrupt Link [LN2B] (IRQs 40 41 42 43) \*0, disabled.  
ACPI: PCI Interrupt Link [LN2C] (IRQs 40 41 42 43) \*0, disabled.  
ACPI: PCI Interrupt Link [LN2D] (IRQs 40 41 42 43) \*0, disabled.  
ACPI: PCI Interrupt Link [LK2N] (IRQs 44 45 46 47) \*0, disabled.  
ACPI: PCI Interrupt Link [LT3D] (IRQs 44 45 46 47) \*0, disabled.  
ACPI: PCI Interrupt Link [LT2E] (IRQs 44 45 46 47) \*0, disabled.  
usbcore: registered new driver usbfs  
usbcore: registered new driver hub  
PCI: Using ACPI for IRQ routing  
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report  
PCI-DMA: Disabling AGP.  
PCI-DMA: aperture base @ 8000000 size 65536 KB  
PCI-DMA: Reserving 64MB of IOMMU area in the AGP aperture  
PCI-DMA: using GART IOMMU.  
PCI: Bridge: 0000:00:09.0  
IO window: 7000-8fff  
MEM window: bfa00000-bfbfffff  
PREFETCH window: dfd00000-dfdfffff  
PCI: Bridge: 0000:00:0d.0  
IO window: disabled.

## nForce Pro 2200 losing ticks

MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:00:0e.0  
IO window: 6000–6fff  
MEM window: bb900000–bf9fffff  
PREFETCH window: bfd00000–dfcfffff  
PCI: Setting latency timer of device 0000:00:09.0 to 64  
PCI: Setting latency timer of device 0000:00:0d.0 to 64  
PCI: Setting latency timer of device 0000:00:0e.0 to 64  
PCI: Bridge: 0000:80:0d.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:80:0e.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Setting latency timer of device 0000:80:0d.0 to 64  
PCI: Setting latency timer of device 0000:80:0e.0 to 64  
IA32 emulation \$Id: sys\_ia32.c,v 1.32 2002/03/24 13:02:28 ak Exp \$  
audit: initializing netlink socket (disabled)  
audit(1138105715.704:1): initialized  
Total HugeTLB memory allocated, 0  
VFS: Disk quotas dquot\_6.5.1  
Dquot–cache hash table entries: 512 (order 0, 4096 bytes)  
SELinux: Registering netfilter hooks  
Initializing Cryptographic API  
io scheduler noop registered  
io scheduler anticipatory registered  
io scheduler deadline registered  
io scheduler cfq registered  
pci\_hotplug: PCI Hot Plug PCI Core version: 0.5  
Real Time Clock Driver v1.12ac  
Linux apgart interface v0.101 (c) Dave Jones  
[drm] Initialized drm 1.0.1 20051102  
serio: i8042 AUX port at 0x60,0x64 irq 12  
serio: i8042 KBD port at 0x60,0x64 irq 1  
Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing enabled  
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A  
serial8250: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A  
RAMDISK driver initialized: 16 RAM disks of 16384K 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  
NFORCE–CK804: IDE controller at PCI slot 0000:00:06.0  
NFORCE–CK804: chipset revision 242  
NFORCE–CK804: not 100% native mode: will probe irqs later  
NFORCE–CK804: BIOS didn't set cable bits correctly. Enabling workaround.  
NFORCE–CK804: 0000:00:06.0 (rev f2) UDMA133 controller  
ide0: BM–DMA at 0x3000–0x3007, BIOS settings: hda:DMA, hdb:DMA  
ide1: BM–DMA at 0x3008–0x300f, BIOS settings: hdc:DMA, hdd:DMA  
Probing IDE interface ide0...

## nForce Pro 2200 losing ticks

```
Probing IDE interface ide1...
hdc: SONY DVD RW DW-Q30A, ATAPI CD/DVD-ROM drive
ide1 at 0x170-0x177,0x376 on irq 15
Probing IDE interface ide0...
hdc: ATAPI 48X DVD-ROM DVD-R CD-R/RW drive, 2048kB Cache
Uniform CD-ROM driver Revision: 3.20
ide-floppy driver 0.99.newide
usbmon: debugfs is not available
usbcore: registered new driver hiddev
usbcore: registered new driver usbhid
drivers/usb/input/hid-core.c: v2.6:USB HID core driver
mice: PS/2 mouse device common for all mice
md: md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: bitmap version 4.39
NET: Registered protocol family 2
input: AT Translated Set 2 keyboard as /class/input/input0
IP route cache hash table entries: 262144 (order: 9, 2097152 bytes)
TCP established hash table entries: 131072 (order: 10, 4194304 bytes)
TCP bind hash table entries: 65536 (order: 9, 2097152 bytes)
TCP: Hash tables configured (established 131072 bind 65536)
TCP reno registered
TCP bic registered
Initializing IPsec netlink socket
NET: Registered protocol family 1
NET: Registered protocol family 17
powernow-k8: Found 4 AMD Athlon 64 / Opteron processors (version 1.60.0)
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
powernow-k8: MP systems not supported by PSB BIOS structure
Freeing unused kernel memory: 240k freed
SCSI subsystem initialized
libata version 1.20 loaded.
sata_sil 0000:03:02.0: version 0.9
ACPI: PCI Interrupt Link [LNKD] enabled at IRQ 19
GSI 16 sharing vector 0xB1 and IRQ 16
ACPI: PCI Interrupt 0000:03:02.0[A] -> Link [LNKD] -> GSI 19 (level,
low) -> IRQ 177
ata1: SATA max UDMA/100 cmd 0xFFFFFC20000004C80 ctl 0xFFFFFC20000004C8A
bmdma 0xFFFFFC20000004C00 irq 177
ata2: SATA max UDMA/100 cmd 0xFFFFFC20000004CC0 ctl 0xFFFFFC20000004CCA
bmdma 0xFFFFFC20000004C08 irq 177
ata1: SATA link up 1.5 Gbps (SStatus 113)
ata1: dev 0 cfg 49:2f00 82:346b 83:7d01 84:4023 85:3469 86:3c01 87:4023 88:207f
ata1: dev 0 ATA-7, max UDMA/133, 586072368 sectors: LBA48
ata1: dev 0 configured for UDMA/100
scsi0 : sata_sil
ata2: SATA link down (SStatus 0)
scsi1 : sata_sil
Vendor: ATA Model: ST3300831AS Rev: 3.03
Type: Direct-Access ANSI SCSI revision: 05
```

## nForce Pro 2200 losing ticks

```
SCSI device sda: 586072368 512-byte hdwr sectors (300069 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: drive cache: write back
SCSI device sda: 586072368 512-byte hdwr sectors (300069 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: drive cache: write back
sda: sda1 sda2 sda3
sd 0:0:0:0: Attached scsi disk sda
input: PS/2 Generic Mouse as /class/input/input1
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
SELinux: Disabled at runtime.
SELinux: Unregistering netfilter hooks
sata_nv 0000:00:07.0: version 0.8
ACPI: PCI Interrupt Link [LTID] enabled at IRQ 22
GSI 17 sharing vector 0xB9 and IRQ 17
ACPI: PCI Interrupt 0000:00:07.0[A] -> Link [LTID] -> GSI 22 (level,
low) -> IRQ 185
PCI: Setting latency timer of device 0000:00:07.0 to 64
ata3: SATA max UDMA/133 cmd 0xC800 ctl 0xC402 bmdma 0xB800 irq 185
ata4: SATA max UDMA/133 cmd 0xC000 ctl 0xBC02 bmdma 0xB808 irq 185
ata3: SATA link down (SStatus 0)
scsi2 : sata_nv
ata4: SATA link down (SStatus 0)
scsi3 : sata_nv
ACPI: PCI Interrupt Link [LTIE] enabled at IRQ 21
GSI 18 sharing vector 0xC1 and IRQ 18
ACPI: PCI Interrupt 0000:00:08.0[A] -> Link [LTIE] -> GSI 21 (level,
low) -> IRQ 193
PCI: Setting latency timer of device 0000:00:08.0 to 64
ata5: SATA max UDMA/133 cmd 0xB400 ctl 0xB002 bmdma 0xA400 irq 193
ata6: SATA max UDMA/133 cmd 0xAC00 ctl 0xA802 bmdma 0xA408 irq 193
ata5: SATA link down (SStatus 0)
scsi4 : sata_nv
ata6: SATA link down (SStatus 0)
scsi5 : sata_nv
ACPI: PCI Interrupt Link [LT3D] enabled at IRQ 47
GSI 19 sharing vector 0xC9 and IRQ 19
ACPI: PCI Interrupt 0000:80:07.0[A] -> Link [LT3D] -> GSI 47 (level,
low) -> IRQ 201
PCI: Setting latency timer of device 0000:80:07.0 to 64
ata7: SATA max UDMA/133 cmd 0xF800 ctl 0xF402 bmdma 0xE800 irq 201
ata8: SATA max UDMA/133 cmd 0xF000 ctl 0xEC02 bmdma 0xE808 irq 201
ata7: SATA link down (SStatus 0)
scsi6 : sata_nv
ata8: SATA link down (SStatus 0)
scsi7 : sata_nv
ACPI: PCI Interrupt Link [LT2E] enabled at IRQ 46
GSI 20 sharing vector 0xD1 and IRQ 20
```

## nForce Pro 2200 losing ticks

ACPI: PCI Interrupt 0000:80:08.0[A] -> Link [LT2E] -> GSI 46 (level, low) -> IRQ 209  
PCI: Setting latency timer of device 0000:80:08.0 to 64  
ata9: SATA max UDMA/133 cmd 0xE400 ctl 0xE002 bmdma 0xD400 irq 209  
ata10: SATA max UDMA/133 cmd 0xDC00 ctl 0xD802 bmdma 0xD408 irq 209  
ata9: SATA link down (SStatus 0)  
scsi8 : sata\_nv  
ata10: SATA link down (SStatus 0)  
scsi9 : sata\_nv  
Floppy drive(s): fd0 is 1.44M  
FDC 0 is a post-1991 82077  
time.c: Lost 1 timer tick(s)! rip \_\_do\_softirq+0x45/0xca  
forcedeth.c: Reverse Engineered nForce ethernet driver. Version 0.49.  
ACPI: PCI Interrupt Link [LKLN] enabled at IRQ 20  
GSI 21 sharing vector 0xD9 and IRQ 21  
ACPI: PCI Interrupt 0000:00:0a.0[A] -> Link [LKLN] -> GSI 20 (level, low) -> IRQ 217  
PCI: Setting latency timer of device 0000:00:0a.0 to 64  
eth0: forcedeth.c: subsystem: 015d9:1011 bound to 0000:00:0a.0  
ACPI: PCI Interrupt Link [LK2N] enabled at IRQ 45  
GSI 22 sharing vector 0xE1 and IRQ 22  
ACPI: PCI Interrupt 0000:80:0a.0[A] -> Link [LK2N] -> GSI 45 (level, low) -> IRQ 225  
PCI: Setting latency timer of device 0000:80:0a.0 to 64  
eth1: forcedeth.c: subsystem: 015d9:1011 bound to 0000:80:0a.0  
ACPI: PCI Interrupt Link [LAUI] enabled at IRQ 22  
ACPI: PCI Interrupt 0000:00:04.0[A] -> Link [LAUI] -> GSI 22 (level, low) -> IRQ 185  
PCI: Setting latency timer of device 0000:00:04.0 to 64  
intel8x0\_measure\_ac97\_clock: measured 56859 usecs  
intel8x0: clocking to 46921  
shpchp: Standard Hot Plug PCI Controller Driver version: 0.4  
i2c\_adapter i2c-0: nForce2 SMBus adapter at 0x4c00  
i2c\_adapter i2c-1: nForce2 SMBus adapter at 0x4c40  
ACPI: PCI Interrupt Link [LUS2] enabled at IRQ 21  
ACPI: PCI Interrupt 0000:00:02.1[B] -> Link [LUS2] -> GSI 21 (level, low) -> IRQ 193  
PCI: Setting latency timer of device 0000:00:02.1 to 64  
ehci\_hcd 0000:00:02.1: EHCI Host Controller  
ehci\_hcd 0000:00:02.1: debug port 1  
PCI: cache line size of 64 is not supported by device 0000:00:02.1  
ehci\_hcd 0000:00:02.1: new USB bus registered, assigned bus number 1  
ehci\_hcd 0000:00:02.1: irq 193, io mem 0xbfce0000  
ehci\_hcd 0000:00:02.1: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004  
usb usb1: configuration #1 chosen from 1 choice  
hub 1-0:1.0: USB hub found  
hub 1-0:1.0: 10 ports detected  
ohci\_hcd: 2005 April 22 USB 1.1 'Open' Host Controller (OHCI) Driver (PCI)  
ACPI: PCI Interrupt Link [LUS0] enabled at IRQ 20  
ACPI: PCI Interrupt 0000:00:02.0[A] -> Link [LUS0] -> GSI 20 (level, low) -> IRQ 217





nForce Pro 2200 losing ticks

```
CONFIG_X86_64=y
CONFIG_64BIT=y
CONFIG_X86=y
CONFIG_SEMAPHORE_SLEEPERS=y
CONFIG_MMU=y
CONFIG_RWSEM_GENERIC_SPINLOCK=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_X86_CMPXCHG=y
CONFIG_EARLY_PRINTK=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_DMI=y

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

#
# General setup
#
CONFIG_LOCALVERSION=""
CONFIG_LOCALVERSION_AUTO=y
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_POSIX_QUEUE=y
CONFIG_BSD_PROCESS_ACCT=y
# CONFIG_BSD_PROCESS_ACCT_V3 is not set
CONFIG_SYSCTL=y
CONFIG_AUDIT=y
CONFIG_AUDITSYSCALL=y
# CONFIG_IKCONFIG is not set
# CONFIG_CPUSETS is not set
CONFIG_INITRAMFS_SOURCE=""
CONFIG_UID16=y
CONFIG_VM86=y
CONFIG_CC_OPTIMIZE_FOR_SIZE=y
# CONFIG_EMBEDDED is not set
CONFIG_KALLSYMS=y
# CONFIG_KALLSYMS_ALL is not set
CONFIG_KALLSYMS_EXTRA_PASS=y
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_CC_ALIGN_FUNCTIONS=0
CONFIG_CC_ALIGN_LABELS=0
CONFIG_CC_ALIGN_LOOPS=0
CONFIG_CC_ALIGN_JUMPS=0
CONFIG_SLAB=y
# CONFIG_TINY_SHMEM is not set
CONFIG_BASE_SMALL=0
# CONFIG_SLOB is not set
CONFIG_OBSOLETE_INTERMODULE=m

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

#
# Block layer
#
CONFIG_LBD=y

#
# IO Schedulers
#
CONFIG_IOSCHED_NOOP=y
CONFIG_IOSCHED_AS=y
CONFIG_IOSCHED_DEADLINE=y
CONFIG_IOSCHED_CFQ=y
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_X86_PC=y
# CONFIG_X86_VSMP is not set
# CONFIG_MK8 is not set
# CONFIG_MPSC is not set
CONFIG_GENERIC_CPU=y
CONFIG_X86_L1_CACHE_BYTES=128
```

nForce Pro 2200 losing ticks

```
CONFIG_X86_L1_CACHE_SHIFT=7
CONFIG_X86_TSC=y
CONFIG_X86_GOOD_APIC=y
CONFIG_MICROCODE=m
CONFIG_X86_MSR=y
CONFIG_X86_CPUID=y
CONFIG_X86_HT=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_MTRR=y
CONFIG_SMP=y
CONFIG_SCHED_SMT=y
CONFIG_PREEMPT_NONE=y
# CONFIG_PREEMPT_VOLUNTARY is not set
# CONFIG_PREEMPT is not set
CONFIG_PREEMPT_BKL=y
CONFIG_NUMA=y
CONFIG_K8_NUMA=y
CONFIG_X86_64_ACPI_NUMA=y
# CONFIG_NUMA_EMU is not set
CONFIG_ARCH_DISCONTIGMEM_ENABLE=y
CONFIG_ARCH_DISCONTIGMEM_DEFAULT=y
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_SELECT_MEMORY_MODEL=y
# CONFIG_FLATMEM_MANUAL is not set
CONFIG_DISCONTIGMEM_MANUAL=y
# CONFIG_SPARSEMEM_MANUAL is not set
CONFIG_DISCONTIGMEM=y
CONFIG_FLAT_NODE_MEM_MAP=y
CONFIG_NEED_MULTIPLE_NODES=y
# CONFIG_SPARSEMEM_STATIC is not set
CONFIG_SPLIT_PTLOCK_CPUS=4
CONFIG_MIGRATION=y
CONFIG_HAVE_ARCH_EARLY_PFN_TO_NID=y
CONFIG_NR_CPUS=8
# CONFIG_HOTPLUG_CPU is not set
CONFIG_HPET_TIMER=y
CONFIG_X86_PM_TIMER=y
CONFIG_HPET_EMULATE_RTC=y
CONFIG_GART_IOMMU=y
CONFIG_SWIOTLB=y
CONFIG_X86_MCE=y
CONFIG_X86_MCE_INTEL=y
CONFIG_X86_MCE_AMD=y
# CONFIG_KEXEC is not set
# CONFIG_CRASH_DUMP is not set
CONFIG_PHYSICAL_START=0x100000
CONFIG_SECCOMP=y
# CONFIG_HZ_100 is not set
CONFIG_HZ_250=y
# CONFIG_HZ_1000 is not set
```

## nForce Pro 2200 losing ticks

```
CONFIG_HZ=250
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_ISA_DMA_API=y
CONFIG_GENERIC_PENDING_IRQ=y

#
# Power management options
#
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
CONFIG_ACPI_BUTTON=m
CONFIG_ACPI_VIDEO=y
# CONFIG_ACPI_HOTKEY is not set
CONFIG_ACPI_FAN=y
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_THERMAL=y
CONFIG_ACPI_NUMA=y
CONFIG_ACPI_ASUS=m
# CONFIG_ACPI_IBM is not set
CONFIG_ACPI_TOSHIBA=m
CONFIG_ACPI_BLACKLIST_YEAR=2001
# CONFIG_ACPI_DEBUG is not set
CONFIG_ACPI_EC=y
CONFIG_ACPI_POWER=y
CONFIG_ACPI_SYSTEM=y
# CONFIG_ACPI_CONTAINER is not set

#
# CPU Frequency scaling
#
CONFIG_CPU_FREQ=y
CONFIG_CPU_FREQ_TABLE=y
# CONFIG_CPU_FREQ_DEBUG is not set
CONFIG_CPU_FREQ_STAT=y
# CONFIG_CPU_FREQ_STAT_DETAILS is not set
# CONFIG_CPU_FREQ_DEFAULT_GOV_PERFORMANCE is not set
CONFIG_CPU_FREQ_DEFAULT_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_PERFORMANCE=y
CONFIG_CPU_FREQ_GOV_POWERSAVE=m
CONFIG_CPU_FREQ_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_ONDEMAND=m
# CONFIG_CPU_FREQ_GOV_CONSERVATIVE is not set
```

```
#
# CPUFreq processor drivers
#
CONFIG_X86_POWERNOW_K8=y
CONFIG_X86_POWERNOW_K8_ACPI=y
CONFIG_X86_SPEEDSTEP_CENTRINO=y
CONFIG_X86_SPEEDSTEP_CENTRINO_ACPI=y
CONFIG_X86_ACPI_CPUFREQ=y

#
# shared options
#
# CONFIG_X86_ACPI_CPUFREQ_PROC_INTF is not set
# CONFIG_X86_SPEEDSTEP_LIB is not set

#
# Bus options (PCI etc.)
#
CONFIG_PCI=y
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
# CONFIG_UNORDERED_IO is not set
# CONFIG_PCIEPORTBUS is not set
CONFIG_PCI_MSI=y
CONFIG_PCI_LEGACY_PROC=y
# CONFIG_PCI_DEBUG is not set

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

#
# PCI Hotplug Support
#
CONFIG_HOTPLUG_PCI=y
# CONFIG_HOTPLUG_PCI_FAKE is not set
CONFIG_HOTPLUG_PCI_ACPI=m
CONFIG_HOTPLUG_PCI_ACPI_IBM=m
# CONFIG_HOTPLUG_PCI_CPCI is not set
CONFIG_HOTPLUG_PCI_SHPC=m
# CONFIG_HOTPLUG_PCI_SHPC_POLL_EVENT_MODE is not set

#
# Executable file formats / Emulations
#
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_MISC=y
CONFIG_IA32_EMULATION=y
# CONFIG_IA32_AOUT is not set
```

```
CONFIG_COMPAT=y
CONFIG_SYSVIPC_COMPAT=y

#
# Networking
#
CONFIG_NET=y

#
# Networking options
#
CONFIG_PACKET=y
CONFIG_PACKET_MMAP=y
CONFIG_UNIX=y
CONFIG_XFRM=y
CONFIG_XFRM_USER=y
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
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_TUNNEL=m
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
CONFIG_IPV6_PRIVACY=y
CONFIG_INET6_AH=m
CONFIG_INET6_ESP=m
CONFIG_INET6_IPCOMP=m
CONFIG_INET6_TUNNEL=m
CONFIG_IPV6_TUNNEL=m
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=y
# CONFIG_IP_NF_CONNTRACK_MARK is not set
```

nForce Pro 2200 losing ticks

```
# CONFIG_IP_NF_CONNTRACK_EVENTS is not set
CONFIG_IP_NF_CT_PROTO_SCTP=m
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_QUEUE=m
```

```
#
# IPv6: Netfilter Configuration (EXPERIMENTAL)
#
# CONFIG_IP6_NF_QUEUE 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=m
# CONFIG_SCTP_DBG_MSG is not set
# CONFIG_SCTP_DBG_OBJCNT is not set
# CONFIG_SCTP_HMAC_NONE is not set
```

## nForce Pro 2200 losing ticks

```
# CONFIG_SCTP_HMAC_SHA1 is not set
CONFIG_SCTP_HMAC_MD5=y
CONFIG_ATM=m
CONFIG_ATM_CLIP=m
# CONFIG_ATM_CLIP_NO_ICMP is not set
CONFIG_ATM_LANE=m
# CONFIG_ATM_MPOA is not set
CONFIG_ATM_BR2684=m
# CONFIG_ATM_BR2684_IPFILTER is not set
CONFIG_BRIDGE=m
CONFIG_VLAN_8021Q=m
# CONFIG_DECNET is not set
CONFIG_LLC=y
# CONFIG_LLC2 is not set
# CONFIG_IPX is not set
# CONFIG_ATALK is not set
# CONFIG_X25 is not set
# CONFIG_LAPB is not set

#
# TIPC Configuration (EXPERIMENTAL)
#
# CONFIG_TIPC is not set
CONFIG_NET_DIVERT=y
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set

#
# QoS and/or fair queueing
#
CONFIG_NET_SCHED=y
CONFIG_NET_SCH_CLK_JIFFIES=y
# CONFIG_NET_SCH_CLK_GETTIMEOFDAY is not set
# CONFIG_NET_SCH_CLK_CPU is not set

#
# Queueing/Scheduling
#
CONFIG_NET_SCH_CBQ=m
CONFIG_NET_SCH_HTB=m
CONFIG_NET_SCH_HFSC=m
CONFIG_NET_SCH_ATM=m
CONFIG_NET_SCH_PRIO=m
CONFIG_NET_SCH_RED=m
CONFIG_NET_SCH_SFQ=m
CONFIG_NET_SCH_TEQL=m
CONFIG_NET_SCH_TBF=m
CONFIG_NET_SCH_GRED=m
CONFIG_NET_SCH_DSMARK=m
CONFIG_NET_SCH_NETEM=m
CONFIG_NET_SCH_INGRESS=m
```

```
#
# Classification
#
CONFIG_NET_CLS=y
# CONFIG_NET_CLS_BASIC is not set
CONFIG_NET_CLS_TCINDEX=m
CONFIG_NET_CLS_ROUTE4=m
CONFIG_NET_CLS_ROUTE=y
CONFIG_NET_CLS_FW=m
CONFIG_NET_CLS_U32=m
CONFIG_CLS_U32_PERF=y
# CONFIG_CLS_U32_MARK is not set
CONFIG_NET_CLS_RSVP=m
CONFIG_NET_CLS_RSVP6=m
# CONFIG_NET_EMATCH is not set
# CONFIG_NET_CLS_ACT is not set
CONFIG_NET_CLS_POLICE=y
CONFIG_NET_CLS_IND=y
CONFIG_NET_ESTIMATOR=y

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set
# CONFIG_HAMRADIO is not set
# CONFIG_IRDA is not set
CONFIG_BT=m
CONFIG_BT_L2CAP=m
CONFIG_BT_SCO=m
CONFIG_BT_RFCOMM=m
CONFIG_BT_RFCOMM_TTY=y
CONFIG_BT_BNEP=m
CONFIG_BT_BNEP_MC_FILTER=y
CONFIG_BT_BNEP_PROTO_FILTER=y
CONFIG_BT_CMTP=m
CONFIG_BT_HIDP=m

#
# Bluetooth device drivers
#
CONFIG_BT_HCIUSB=m
CONFIG_BT_HCIUSB_SCO=y
CONFIG_BT_HCIUART=m
CONFIG_BT_HCIUART_H4=y
CONFIG_BT_HCIUART_BCSP=y
CONFIG_BT_HCIBCM203X=m
# CONFIG_BT_HCIBPA10X is not set
CONFIG_BT_HCIBFUSB=m
CONFIG_BT_HCIVHCI=m
CONFIG_IEEE80211=m
```

nForce Pro 2200 losing ticks

```
# CONFIG_IEEE80211_DEBUG is not set
# CONFIG_IEEE80211_CRYPT_WEP is not set
# CONFIG_IEEE80211_CRYPT_CCMP is not set
CONFIG_IEEE80211_CRYPT_TKIP=m

#
# Device Drivers
#

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

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

#
# Memory Technology Devices (MTD)
#
CONFIG_MTD=m
# CONFIG_MTD_DEBUG is not set
CONFIG_MTD_CONCAT=m
CONFIG_MTD_PARTITIONS=y
CONFIG_MTD_REDBOOT_PARTS=m
CONFIG_MTD_REDBOOT_DIRECTORY_BLOCK=-1
# CONFIG_MTD_REDBOOT_PARTS_UNALLOCATED is not set
# CONFIG_MTD_REDBOOT_PARTS_READONLY is not set
CONFIG_MTD_CMDLINE_PARTS=y

#
# User Modules And Translation Layers
#
CONFIG_MTD_CHAR=m
CONFIG_MTD_BLOCK=m
CONFIG_MTD_BLOCK_RO=m
CONFIG_FTL=m
CONFIG_NFTL=m
CONFIG_NFTL_RW=y
# CONFIG_INFTL is not set
# CONFIG_RFD_FTL is not set

#
# RAM/ROM/Flash chip drivers
#
CONFIG_MTD_CFI=m
```

nForce Pro 2200 losing ticks

```
CONFIG_MTD_JEDECPROBE=m
CONFIG_MTD_GEN_PROBE=m
# CONFIG_MTD_CFI_ADV_OPTIONS is not set
CONFIG_MTD_MAP_BANK_WIDTH_1=y
CONFIG_MTD_MAP_BANK_WIDTH_2=y
CONFIG_MTD_MAP_BANK_WIDTH_4=y
# CONFIG_MTD_MAP_BANK_WIDTH_8 is not set
# CONFIG_MTD_MAP_BANK_WIDTH_16 is not set
# CONFIG_MTD_MAP_BANK_WIDTH_32 is not set
CONFIG_MTD_CFI_I1=y
CONFIG_MTD_CFI_I2=y
# CONFIG_MTD_CFI_I4 is not set
# CONFIG_MTD_CFI_I8 is not set
CONFIG_MTD_CFI_INTELEXT=m
CONFIG_MTD_CFI_AMDSTD=m
CONFIG_MTD_CFI_AMDSTD_RETRY=3
CONFIG_MTD_CFI_STAA=m
CONFIG_MTD_CFI_UTIL=m
CONFIG_MTD_RAM=m
CONFIG_MTD_ROM=m
CONFIG_MTD_ABSENT=m
# CONFIG_MTD_OBSOLETE_CHIPS is not set
```

```
#
# Mapping drivers for chip access
#
CONFIG_MTD_COMPLEX_MAPPINGS=y
# CONFIG_MTD_PHYSMAP is not set
# CONFIG_MTD_PNC2000 is not set
CONFIG_MTD_SC520CDP=m
CONFIG_MTD_NETSC520=m
# CONFIG_MTD_TS5500 is not set
# CONFIG_MTD_SBC_GXX is not set
# CONFIG_MTD_AMD76XR0M is not set
CONFIG_MTD_ICHXROM=m
# CONFIG_MTD_SCB2_FLASH is not set
# CONFIG_MTD_NETtel is not set
# CONFIG_MTD_DILNETPC is not set
# CONFIG_MTD_L440GX is not set
# CONFIG_MTD_PCI is not set
# CONFIG_MTD_PLATRAM is not set
```

```
#
# Self-contained MTD device drivers
#
# CONFIG_MTD_PMC551 is not set
# CONFIG_MTD_SLRAM is not set
# CONFIG_MTD_PHRAM is not set
CONFIG_MTD_MTDDRAM=m
CONFIG_MTD_MTDDRAM_TOTAL_SIZE=4096
CONFIG_MTD_MTDDRAM_ERASE_SIZE=128
```

## nForce Pro 2200 losing ticks

```
# CONFIG_MTD_BLKMTD is not set
# CONFIG_MTD_BLOCK2MTD is not set

#
# Disk-On-Chip Device Drivers
#
# CONFIG_MTD_DOC2000 is not set
# CONFIG_MTD_DOC2001 is not set
# CONFIG_MTD_DOC2001PLUS is not set

#
# NAND Flash Device Drivers
#
CONFIG_MTD_NAND=m
# CONFIG_MTD_NAND_VERIFY_WRITE is not set
CONFIG_MTD_NAND_IDS=m
# CONFIG_MTD_NAND_DISKONCHIP is not set
# CONFIG_MTD_NAND_NANDSIM is not set

#
# OneNAND Flash Device Drivers
#
# CONFIG_MTD_ONENAND is not set

#
# 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_NOT_PC=y
# CONFIG_PARPORT_GSC is not set
CONFIG_PARPORT_1284=y

#
# Plug and Play support
#
# CONFIG_PNP is not set

#
# Block devices
#
CONFIG_BLK_DEV_FD=m
# CONFIG_PARIDE is not set
CONFIG_BLK_CPQ_DA=m
CONFIG_BLK_CPQ_CISS_DA=m
CONFIG_CISS_SCSI_TAPE=y
CONFIG_BLK_DEV_DAC960=m
# CONFIG_BLK_DEV_UMEM is not set
```

## nForce Pro 2200 losing ticks

```
# CONFIG_BLK_DEV_COW_COMMON is not set
CONFIG_BLK_DEV_LOOP=m
CONFIG_BLK_DEV_CRYPTOLOOP=m
CONFIG_BLK_DEV_NBD=m
CONFIG_BLK_DEV_SX8=m
# CONFIG_BLK_DEV_UB is not set
CONFIG_BLK_DEV_RAM=y
CONFIG_BLK_DEV_RAM_COUNT=16
CONFIG_BLK_DEV_RAM_SIZE=16384
CONFIG_BLK_DEV_INITRD=y
# CONFIG_CDROM_PKTCDVD is not set
# CONFIG_ATA_OVER_ETH is not set

#
# ATA/ATAPI/MFM/RLL support
#
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=y
CONFIG_BLK_DEV_IDECD=y
# CONFIG_BLK_DEV_IDETAPE is not set
CONFIG_BLK_DEV_IDEFLOPPY=y
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_IDEPCI=y
CONFIG_IDEPCI_SHARE_IRQ=y
# CONFIG_BLK_DEV_OFFBOARD is not set
CONFIG_BLK_DEV_GENERIC=y
# CONFIG_BLK_DEV_OPTI621 is not set
CONFIG_BLK_DEV_RZ1000=y
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=y
CONFIG_BLK_DEV_ALI15X3=y
# CONFIG_WDC_ALI15X3 is not set
CONFIG_BLK_DEV_AMD74XX=y
```

## nForce Pro 2200 losing ticks

```
CONFIG_BLK_DEV_ATIIXP=y
CONFIG_BLK_DEV_CMD64X=y
CONFIG_BLK_DEV_TRIFLEX=y
CONFIG_BLK_DEV_CY82C693=y
CONFIG_BLK_DEV_CS5520=y
CONFIG_BLK_DEV_CS5530=y
CONFIG_BLK_DEV_HPT34X=y
# CONFIG_HPT34X_AUTODMA is not set
CONFIG_BLK_DEV_HPT366=y
# CONFIG_BLK_DEV_SC1200 is not set
CONFIG_BLK_DEV_PIIX=y
# CONFIG_BLK_DEV_IT821X is not set
# CONFIG_BLK_DEV_NS87415 is not set
CONFIG_BLK_DEV_PDC202XX_OLD=y
# CONFIG_PDC202XX_BURST is not set
CONFIG_BLK_DEV_PDC202XX_NEW=y
CONFIG_PDC202XX_FORCE=y
CONFIG_BLK_DEV_SVWKS=y
CONFIG_BLK_DEV_SIIMAGE=y
CONFIG_BLK_DEV_SIS5513=y
CONFIG_BLK_DEV_SLC90E66=y
# CONFIG_BLK_DEV_TRM290 is not set
CONFIG_BLK_DEV_VIA82CXXX=y
# CONFIG_IDE_ARM 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 is not set
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=m
CONFIG_BLK_DEV_SR=m
CONFIG_BLK_DEV_SR_VENDOR=y
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=m
CONFIG_SCSI_ISCSI_ATTRS=m
# CONFIG_SCSI_SAS_ATTRS is not set

#
# SCSI low-level drivers
#
# CONFIG_ISCSI_TCP is not set
CONFIG_BLK_DEV_3W_XXXX_RAID=m
CONFIG_SCSI_3W_9XXX=m
CONFIG_SCSI_ACARD=m
CONFIG_SCSI_AACRAID=m
CONFIG_SCSI_AIC7XXX=m
CONFIG_AIC7XXX_CMDS_PER_DEVICE=4
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=m
CONFIG_SCSI_AIC79XX=m
CONFIG_AIC79XX_CMDS_PER_DEVICE=4
CONFIG_AIC79XX_RESET_DELAY_MS=15000
# CONFIG_AIC79XX_ENABLE_RD_STRM is not set
# CONFIG_AIC79XX_DEBUG_ENABLE is not set
CONFIG_AIC79XX_DEBUG_MASK=0
# CONFIG_AIC79XX_REG_PRETTY_PRINT is not set
CONFIG_MEGARAID_NEWGEN=y
CONFIG_MEGARAID_MM=m
CONFIG_MEGARAID_MAILBOX=m
# CONFIG_MEGARAID_LEGACY is not set
# CONFIG_MEGARAID_SAS is not set
CONFIG_SCSI_SATA=m
CONFIG_SCSI_SATA_AHCI=m
CONFIG_SCSI_SATA_SVW=m
CONFIG_SCSI_ATA_PIIX=m
# CONFIG_SCSI_SATA_MV is not set
CONFIG_SCSI_SATA_NV=m
# CONFIG_SCSI_PDC_ADMA is not set
# CONFIG_SCSI_SATA_QSTOR is not set
CONFIG_SCSI_SATA_PROMISE=m
CONFIG_SCSI_SATA_SX4=m
CONFIG_SCSI_SATA_SIL=m
# CONFIG_SCSI_SATA_SIL24 is not set
CONFIG_SCSI_SATA_SIS=m
```

## nForce Pro 2200 losing ticks

```
# CONFIG_SCSI_SATA_ULI is not set
CONFIG_SCSI_SATA_VIA=m
CONFIG_SCSI_SATA_VITESSE=m
CONFIG_SCSI_SATA_INTEL_COMBINED=y
# CONFIG_SCSI_BUSLOGIC is not set
# CONFIG_SCSI_DMX3191D is not set
# CONFIG_SCSI_EATA is not set
# CONFIG_SCSI_FUTURE_DOMAIN is not set
CONFIG_SCSI_GDTH=m
CONFIG_SCSI_IPS=m
CONFIG_SCSI_INITIO=m
# CONFIG_SCSI_INIA100 is not set
CONFIG_SCSI_PPA=m
CONFIG_SCSI_IMM=m
# CONFIG_SCSI_IZIP_EPP16 is not set
# CONFIG_SCSI_IZIP_SLOW_CTR 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_IOMAPPED is not set
# CONFIG_SCSI_IPR is not set
# CONFIG_SCSI_QLOGIC_FC is not set
CONFIG_SCSI_QLOGIC_1280=m
# CONFIG_SCSI_QLA_FC is not set
CONFIG_SCSI_LPFC=m
# CONFIG_SCSI_DC395x is not set
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_DEBUG is not set

#
# Multi-device support (RAID and LVM)
#
CONFIG_MD=y
CONFIG_BLK_DEV_MD=y
CONFIG_MD_LINEAR=m
CONFIG_MD_RAID0=m
CONFIG_MD_RAID1=m
CONFIG_MD_RAID10=m
CONFIG_MD_RAID5=m
CONFIG_MD_RAID6=m
CONFIG_MD_MULTIPATH=m
# CONFIG_MD_FAULTY is not set
CONFIG_BLK_DEV_DM=m
CONFIG_DM_CRYPT=m
CONFIG_DM_SNAPSHOT=m
CONFIG_DM_MIRROR=m
CONFIG_DM_ZERO=m
CONFIG_DM_MULTIPATH=m
CONFIG_DM_MULTIPATH_EMCM=m
```

## nForce Pro 2200 losing ticks

```
#
# Fusion MPT device support
#
# CONFIG_FUSION is not set
# CONFIG_FUSION_SPI is not set
# CONFIG_FUSION_FC is not set
# CONFIG_FUSION_SAS is not set

#
# IEEE 1394 (FireWire) support
#
# CONFIG_IEEE1394 is not set

#
# I2O device support
#
CONFIG_I2O=m
CONFIG_I2O_LCT_NOTIFY_ON_CHANGES=y
CONFIG_I2O_EXT_ADAPTEC=y
CONFIG_I2O_EXT_ADAPTEC_DMA64=y
CONFIG_I2O_CONFIG=m
CONFIG_I2O_CONFIG_OLD_IOCTL=y
# CONFIG_I2O_BUS is not set
CONFIG_I2O_BLOCK=m
CONFIG_I2O_SCSI=m
CONFIG_I2O_PROC=m

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

#
# ARCnet devices
#
# CONFIG_ARCNET is not set

#
# PHY device support
#
# CONFIG_PHYLIB is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
CONFIG_MII=m
```

nForce Pro 2200 losing ticks

```
CONFIG_HAPPYMEAL=m
CONFIG_SUNGEM=m
# CONFIG_CASSINI is not set
CONFIG_NET_VENDOR_3COM=y
CONFIG_VORTEX=m
CONFIG_TYPHOON=m

#
# Tulip family network device support
#
CONFIG_NET_TULIP=y
CONFIG_DE2104X=m
CONFIG_TULIP=m
# CONFIG_TULIP_MWI is not set
CONFIG_TULIP_MMIO=y
# CONFIG_TULIP_NAPI is not set
CONFIG_DE4X5=m
CONFIG_WINBOND_840=m
CONFIG_DM9102=m
# CONFIG_ULI526X is not set
# CONFIG_HP100 is not set
CONFIG_NET_PCI=y
CONFIG_PCNET32=m
CONFIG_AMD8111_ETH=m
CONFIG_AMD8111E_NAPI=y
CONFIG_ADAPTEC_STARFIRE=m
CONFIG_ADAPTEC_STARFIRE_NAPI=y
CONFIG_B44=m
CONFIG_FORCEDETH=m
# CONFIG_DGRS is not set
CONFIG_EEPRO100=m
CONFIG_E100=m
CONFIG_FEALNX=m
CONFIG_NATSEMI=m
CONFIG_NE2K_PCI=m
CONFIG_8139CP=m
CONFIG_8139TOO=m
CONFIG_8139TOO_PIO=y
# CONFIG_8139TOO_TUNE_TWISTER is not set
CONFIG_8139TOO_8129=y
# CONFIG_8139_OLD_RX_RESET is not set
CONFIG_SIS900=m
CONFIG_EPIC100=m
# CONFIG_SUNDANCE is not set
CONFIG_VIA_RHINE=m
CONFIG_VIA_RHINE_MMIO=y
# CONFIG_NET_POCKET is not set

#
# Ethernet (1000 Mbit)
#
```

nForce Pro 2200 losing ticks

```
CONFIG_ACENIC=m
# CONFIG_ACENIC_OMIT_TIGON_I is not set
CONFIG_DL2K=m
CONFIG_E1000=m
CONFIG_E1000_NAPI=y
CONFIG_NS83820=m
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
CONFIG_R8169=m
CONFIG_R8169_NAPI=y
# 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 is not set

#
# Ethernet (10000 Mbit)
#
# CONFIG_CHELSIO_T1 is not set
CONFIG_IXGB=m
CONFIG_IXGB_NAPI=y
CONFIG_S2IO=m
CONFIG_S2IO_NAPI=y

#
# Token Ring devices
#
CONFIG_TR=y
CONFIG_IBMOL=m
CONFIG_3C359=m
CONFIG_TMS380TR=m
CONFIG_TMSPCI=m
CONFIG_ABYSS=m

#
# Wireless LAN (non-hamradio)
#
CONFIG_NET_RADIO=y

#
# Obsolete Wireless cards support (pre-802.11)
#
# CONFIG_STRIP is not set

#
# Wireless 802.11b ISA/PCI cards support
#
```

## nForce Pro 2200 losing ticks

```
CONFIG_IPW2100=m
# CONFIG_IPW2100_MONITOR is not set
# CONFIG_IPW2100_DEBUG is not set
CONFIG_IPW2200=m
# CONFIG_IPW2200_DEBUG is not set
# CONFIG_AIRO is not set
CONFIG_HERMES=m
CONFIG_PLX_HERMES=m
CONFIG_TMD_HERMES=m
# CONFIG_NORTEL_HERMES is not set
CONFIG_PCI_HERMES=m
CONFIG_ATMEL=m
CONFIG_PCI_ATMEL=m

#
# Prism GT/Duette 802.11(a/b/g) PCI/Cardbus support
#
CONFIG_PRISM54=m
# CONFIG_HOSTAP is not set
CONFIG_NET_WIRELESS=y

#
# Wan interfaces
#
# CONFIG_WAN is not set

#
# ATM drivers
#
# CONFIG_ATM_DUMMY is not set
CONFIG_ATM_TCP=m
CONFIG_ATM_LANAI=m
CONFIG_ATM_ENI=m
# CONFIG_ATM_ENI_DEBUG is not set
# CONFIG_ATM_ENI_TUNE_BURST is not set
CONFIG_ATM_FIRESTREAM=m
# CONFIG_ATM_ZATM is not set
CONFIG_ATM_IDT77252=m
# CONFIG_ATM_IDT77252_DEBUG is not set
# CONFIG_ATM_IDT77252_RCV_ALL is not set
CONFIG_ATM_IDT77252_USE_SUNI=y
CONFIG_ATM_AMBASSADOR=m
# CONFIG_ATM_AMBASSADOR_DEBUG is not set
CONFIG_ATM_HORIZON=m
# CONFIG_ATM_HORIZON_DEBUG is not set
CONFIG_ATM_FORE200E_MAYBE=m
# CONFIG_ATM_FORE200E_PCA is not set
CONFIG_ATM_HE=m
# CONFIG_ATM_HE_USE_SUNI is not set
CONFIG_FDDI=y
# CONFIG_DEFXX is not set
```

```
# CONFIG_SKFP is not set
# CONFIG_HIPPI is not set
# CONFIG_PLIP is not set
CONFIG_PPP=m
CONFIG_PPP_MULTILINK=y
CONFIG_PPP_FILTER=y
CONFIG_PPP_ASYNC=m
CONFIG_PPP_SYNC_TTY=m
CONFIG_PPP_DEFLATE=m
# CONFIG_PPP_BSDCOMP is not set
# CONFIG_PPP_MPPE is not set
CONFIG_PPPOE=m
CONFIG_PPPOATM=m
# CONFIG_SLIP is not set
CONFIG_NET_FC=y
# CONFIG_SHAPER is not set
CONFIG_NETCONSOLE=m
CONFIG_NETPOLL=y
# CONFIG_NETPOLL_RX is not set
CONFIG_NETPOLL_TRAP=y
CONFIG_NET_POLL_CONTROLLER=y

#
# ISDN subsystem
#
CONFIG_ISDN=m

#
# Old ISDN4Linux
#
CONFIG_ISDN_I4L=m
CONFIG_ISDN_PPP=y
CONFIG_ISDN_PPP_VJ=y
CONFIG_ISDN_MPP=y
CONFIG_IPPP_FILTER=y
# CONFIG_ISDN_PPP_BSDCOMP is not set
CONFIG_ISDN_AUDIO=y
CONFIG_ISDN_TTY_FAX=y

#
# ISDN feature submodules
#
# CONFIG_ISDN_DIVERSION is not set

#
# ISDN4Linux hardware drivers
#

#
# Passive cards
#
```

```
CONFIG_ISDN_DRV_HISAX=m

#
# D-channel protocol features
#
CONFIG_HISAX_EURO=y
CONFIG_DE_AOC=y
CONFIG_HISAX_NO_SENDCOMPLETE=y
CONFIG_HISAX_NO_LLC=y
CONFIG_HISAX_NO_KEYPAD=y
CONFIG_HISAX_1TR6=y
CONFIG_HISAX_NI1=y
CONFIG_HISAX_MAX_CARDS=8

#
# HiSax supported cards
#
CONFIG_HISAX_16_3=y
CONFIG_HISAX_TELEPCI=y
CONFIG_HISAX_SOBOX=y
CONFIG_HISAX_FRITZPCI=y
CONFIG_HISAX_AVM_A1_PCMCIA=y
CONFIG_HISAX_ELSA=y
CONFIG_HISAX_DIEHLDIVA=y
CONFIG_HISAX_SEDLBAUER=y
CONFIG_HISAX_NETJET=y
CONFIG_HISAX_NETJET_U=y
CONFIG_HISAX_NICCY=y
CONFIG_HISAX_BKM_A4T=y
CONFIG_HISAX_SCT_QUADRO=y
CONFIG_HISAX_GAZEL=y
CONFIG_HISAX_HFC_PCI=y
CONFIG_HISAX_W6692=y
CONFIG_HISAX_HFC_SX=y
CONFIG_HISAX_ENTERNOW_PCI=y
# CONFIG_HISAX_DEBUG is not set

#
# HiSax PCMCIA card service modules
#

#
# HiSax sub driver modules
#
CONFIG_HISAX_ST5481=m
CONFIG_HISAX_HFCUSB=m
# CONFIG_HISAX_HFC4S8S is not set
CONFIG_HISAX_FRITZ_PCIPNP=m
CONFIG_HISAX_HDLC=y

#
```

```
# Active cards
#

#
# CAPI subsystem
#
CONFIG_ISDN_CAPI=m
CONFIG_ISDN_DRV_AVMB1_VERBOSE_REASON=y
CONFIG_ISDN_CAPI_MIDDLEWARE=y
CONFIG_ISDN_CAPI_CAPI20=m
CONFIG_ISDN_CAPI_CAPIFS_BOOL=y
CONFIG_ISDN_CAPI_CAPIFS=m
CONFIG_ISDN_CAPI_CAPIDRV=m

#
# CAPI hardware drivers
#

#
# Active AVM cards
#
CONFIG_CAPI_AVM=y
# CONFIG_ISDN_DRV_AVMB1_B1PCI is not set
# CONFIG_ISDN_DRV_AVMB1_B1PCMCIA is not set
# CONFIG_ISDN_DRV_AVMB1_T1PCI is not set
# CONFIG_ISDN_DRV_AVMB1_C4 is not set

#
# Active Eicon DIVA Server cards
#
# CONFIG_CAPI_EICON is not set

#
# Telephony Support
#
# CONFIG_PHONE is not set

#
# Input device support
#
CONFIG_INPUT=y

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

## nForce Pro 2200 losing ticks

```
CONFIG_INPUT_EVDEV=y
# CONFIG_INPUT_EVBUG is not set

#
# 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=y
CONFIG_MOUSE_SERIAL=m
CONFIG_MOUSE_VSXXXAA=m
CONFIG_INPUT_JOYSTICK=y
# CONFIG_JOYSTICK_ANALOG is not set
# CONFIG_JOYSTICK_A3D is not set
# CONFIG_JOYSTICK_ADI is not set
# CONFIG_JOYSTICK_COBRA is not set
# CONFIG_JOYSTICK_GF2K is not set
# CONFIG_JOYSTICK_GRIP is not set
# CONFIG_JOYSTICK_GRIP_MP is not set
# CONFIG_JOYSTICK_GUILLEMOT is not set
# CONFIG_JOYSTICK_INTERACT is not set
# CONFIG_JOYSTICK_SIDEWINDER is not set
# CONFIG_JOYSTICK_TMDC is not set
# CONFIG_JOYSTICK_IFORCE is not set
# CONFIG_JOYSTICK_WARRIOR is not set
# CONFIG_JOYSTICK_MAGELLAN is not set
# CONFIG_JOYSTICK_SPACEORB is not set
# CONFIG_JOYSTICK_SPACEBALL is not set
# CONFIG_JOYSTICK_STINGER is not set
# CONFIG_JOYSTICK_TWIDJOY is not set
# CONFIG_JOYSTICK_DB9 is not set
# CONFIG_JOYSTICK_GAMECON is not set
# CONFIG_JOYSTICK_TURBOGRAFX is not set
# CONFIG_JOYSTICK_JOYDUMP is not set
CONFIG_INPUT_TOUCHSCREEN=y
CONFIG_TOUCHSCREEN_GUNZE=m
# CONFIG_TOUCHSCREEN_ELO is not set
# CONFIG_TOUCHSCREEN_MTOUCH is not set
# CONFIG_TOUCHSCREEN_MK712 is not set
CONFIG_INPUT_MISC=y
CONFIG_INPUT_PCSPKR=m
CONFIG_INPUT_UINPUT=m

#
# Hardware I/O ports
#
```

## nForce Pro 2200 losing ticks

```
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
CONFIG_SERIO_SERPORT=y
# 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_SERIAL_NONSTANDARD=y
# CONFIG_COMPUTONE is not set
# CONFIG_ROCKETPORT is not set
# CONFIG_CYCLADES is not set
# CONFIG_DIGIEPCA is not set
# CONFIG_MOXA_INTELLIO is not set
# CONFIG_MOXA_SMARTIO is not set
# CONFIG_ISI is not set
# CONFIG_SYNCLINK is not set
# CONFIG_SYNCLINKMP is not set
# CONFIG_SYNCLINK_GT is not set
CONFIG_N_HDLC=m
# CONFIG_SPECIALIX is not set
# CONFIG_SX is not set
CONFIG_STALDRV=y

#
# Serial drivers
#
CONFIG_SERIAL_8250=y
CONFIG_SERIAL_8250_CONSOLE=y
# CONFIG_SERIAL_8250_ACPI is not set
CONFIG_SERIAL_8250_NR_UARTS=4
CONFIG_SERIAL_8250_RUNTIME_UARTS=4
CONFIG_SERIAL_8250_EXTENDED=y
# CONFIG_SERIAL_8250_MANY_PORTS is not set
CONFIG_SERIAL_8250_SHARE_IRQ=y
CONFIG_SERIAL_8250_DETECT_IRQ=y
CONFIG_SERIAL_8250_RSA=y

#
# Non-8250 serial port support
#
CONFIG_SERIAL_CORE=y
CONFIG_SERIAL_CORE_CONSOLE=y
```

## nForce Pro 2200 losing ticks

```
CONFIG_UNIX98_PTYS=y
# CONFIG_LEGACY_PTYS is not set
CONFIG_PRINTER=m
CONFIG_LP_CONSOLE=y
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=y
# CONFIG_WATCHDOG_NOWAYOUT is not set

#
# Watchdog Device Drivers
#
CONFIG_SOFT_WATCHDOG=m
CONFIG_ACQUIRE_WDT=m
CONFIG_ADVANTECH_WDT=m
CONFIG_ALIM1535_WDT=m
CONFIG_ALIM7101_WDT=m
CONFIG_SC520_WDT=m
CONFIG_EUROTECH_WDT=m
CONFIG_IB700_WDT=m
# CONFIG_IBMASR is not set
CONFIG_WAFER_WDT=m
# CONFIG_I6300ESB_WDT is not set
CONFIG_I8XX_TCO=m
CONFIG_SC1200_WDT=m
# CONFIG_60XX_WDT is not set
# CONFIG_SBC8360_WDT is not set
CONFIG_CPU5_WDT=m
CONFIG_W83627HF_WDT=m
CONFIG_W83877F_WDT=m
# CONFIG_W83977F_WDT is not set
CONFIG_MACHZ_WDT=m
# CONFIG_SBC_EPX_C3_WATCHDOG is not set

#
# PCI-based Watchdog Cards
#
```

```
CONFIG_PCIPCWATCHDOG=m
CONFIG_WDTPCI=m
CONFIG_WDT_501_PCI=y

#
# USB-based Watchdog Cards
#
CONFIG_USBPCWATCHDOG=m
CONFIG_HW_RANDOM=m
# CONFIG_NVRAM is not set
CONFIG_RTC=y
CONFIG_DTLK=m
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set

#
# Ftape, the floppy tape device driver
#
CONFIG_AGP=y
CONFIG_AGP_AMD64=y
# CONFIG_AGP_INTEL is not set
CONFIG_DRM=y
# CONFIG_DRM_TDFX is not set
CONFIG_DRM_R128=m
CONFIG_DRM_RADEON=m
CONFIG_DRM_MGA=m
# CONFIG_DRM_SIS is not set
# CONFIG_DRM_VIA is not set
# CONFIG_DRM_SAVAGE is not set
# CONFIG_MWAVE is not set
CONFIG_RAW_DRIVER=y
CONFIG_MAX_RAW_DEVS=8192
# CONFIG_HPET is not set
CONFIG_HANGCHECK_TIMER=m

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

#
# I2C support
#
CONFIG_I2C=m
CONFIG_I2C_CHARDEV=m

#
# I2C Algorithms
#
CONFIG_I2C_ALGOBIT=m
```

## nForce Pro 2200 losing ticks

```
CONFIG_I2C_ALGOPCF=m
CONFIG_I2C_ALGOPCA=m

#
# I2C Hardware Bus support
#
CONFIG_I2C_ALI1535=m
CONFIG_I2C_ALI1563=m
CONFIG_I2C_ALI15X3=m
CONFIG_I2C_AMD756=m
# CONFIG_I2C_AMD756_S4882 is not set
CONFIG_I2C_AMD8111=m
CONFIG_I2C_I801=m
CONFIG_I2C_I810=m
# CONFIG_I2C_PIIX4 is not set
CONFIG_I2C_ISA=m
CONFIG_I2C_NFORCE2=m
# CONFIG_I2C_PARPORT is not set
# CONFIG_I2C_PARPORT_LIGHT is not set
CONFIG_I2C_PROSAVAGE=m
CONFIG_I2C_SAVAGE4=m
# CONFIG_SCx200_ACB is not set
CONFIG_I2C_SIS5595=m
CONFIG_I2C_SIS630=m
CONFIG_I2C_SIS96X=m
# CONFIG_I2C_STUB is not set
CONFIG_I2C_VIA=m
CONFIG_I2C_VIAP
```