

NForce3 SATA badness with remove/add devices

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-10/10159.html>

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To: linux-kernel@vger.kernel.org

Hello Jeff or someone who read this,

its my 3 attemp (LKML Post 0410.2/01291) to get a answer to following thing.

First of all I'm using a NForce 3 250GB (MSI K8N Neo2 Platinum)

With 3 SATA disks

Maxtor 6B200M/NCQ

2xSamsung SP1213C

My Problem is when the kernel starts with libsata and sata_nv compiled in when I boot the System with libsata and sata_nv it removes the first disk (Maxtor 6B200B) then a abnormal timeout occur while adding the device: this message appears error is "ATA: abnormal status 0x0D on port 0x9E7" and "ata is to slow to answer" now the corious thing on that is if I wait 40 or 50 sec maybe it work or maybe not.. when I'm using the old "CONFIG_BLK_DEV_IDE_SATA:" everything works great here. I dont know whats wrong but i tested it on 5 Motherboard there the Maxtor working without hicks (VIA KT880Pro,i875P,i925,SIS755,Promise 378 SATA TX2, but when I plug it on a NForce 3 250GB (MSI K8N Neo2 or Gigabyte K8NSNXP or even new MSI K8N Neo2) the same timeout occur..the Maxtor 6B200M is SATA2 but full SATA compatible. I thought it is because of hotplug support but disabling all this stuff did not work. I hope someone know why this happen and how to fix this.

Thanks for help

here are the lspci -v output

```
0000:00:00.0 Host bridge: nVidia Corporation: Unknown device 00e1 (rev a1)
  Subsystem: Micro-Star International Co., Ltd.: Unknown device 0250
  Flags: bus master, 66Mhz, fast devsel, latency 0
  Memory at d0000000 (32-bit, prefetchable)
  Capabilities: [44] #08 [01c0]
  Capabilities: [c0] AGP version 3.0
```

```
0000:00:01.0 ISA bridge: nVidia Corporation: Unknown device 00e0 (rev a2)
  Subsystem: Micro-Star International Co., Ltd.: Unknown device 0250
  Flags: bus master, 66Mhz, fast devsel, latency 0
```

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- 0000:00:01.1 SMBus: nVidia Corporation nForce 250Gb PCI System Management (rev a1)
Subsystem: Micro–Star International Co., Ltd.: Unknown device 0250
Flags: 66Mhz, fast devsel, IRQ 177
I/O ports at ec00
I/O ports at 4c00 [size=64]
I/O ports at 4c40 [size=64]
Capabilities: [44] Power Management version 2
- 0000:00:05.0 Bridge: nVidia Corporation CK8S Ethernet Controller (rev a2)
Subsystem: Micro–Star International Co., Ltd.: Unknown device 0250
Flags: bus master, 66Mhz, fast devsel, latency 0, IRQ 177
Memory at ec000000 (32–bit, non–prefetchable)
I/O ports at a800 [size=8]
Capabilities: [44] Power Management version 2
- 0000:00:08.0 IDE interface: nVidia Corporation CK8S Parallel ATA Controller (v2.5) (rev a2) (prog–if 8a [Master SecP PriP])
Subsystem: Micro–Star International Co., Ltd.: Unknown device 0250
Flags: bus master, 66Mhz, fast devsel, latency 0
I/O ports at f000 [size=16]
Capabilities: [44] Power Management version 2
- 0000:00:09.0 IDE interface: nVidia Corporation CK8S Serial ATA Controller (v2.5) (rev a2) (prog–if 85 [Master SecO PriO])
Subsystem: Micro–Star International Co., Ltd.: Unknown device 0250
Flags: bus master, 66Mhz, fast devsel, latency 0, IRQ 193
I/O ports at 09e0
I/O ports at 0be0 [size=4]
I/O ports at 0960 [size=8]
I/O ports at 0b60 [size=4]
I/O ports at cc00 [size=16]
I/O ports at d000 [size=128]
Capabilities: [44] Power Management version 2
- 0000:00:0a.0 IDE interface: nVidia Corporation CK8S Serial ATA Controller (v2.5) (rev a2) (prog–if 85 [Master SecO PriO])
Subsystem: Micro–Star International Co., Ltd.: Unknown device 0250
Flags: bus master, 66Mhz, fast devsel, latency 0, IRQ 201
I/O ports at 09f0
I/O ports at 0bf0 [size=4]
I/O ports at 0970 [size=8]
I/O ports at 0b70 [size=4]
I/O ports at e400 [size=16]
I/O ports at e800 [size=128]
Capabilities: [44] Power Management version 2
- 0000:00:0b.0 PCI bridge: nVidia Corporation nForce3 250Gb AGP Host to PCI Bridge (rev a2) (prog–if 00 [Normal decode])
Flags: bus master, 66Mhz, medium devsel, latency 16
Bus: primary=00, secondary=01, subordinate=01, sec–latency=10
Memory behind bridge: e8000000–e9ffffff

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Prefetchable memory behind bridge: e0000000-e7ffff

0000:00:0e.0 PCI bridge: nVidia Corporation nForce3 250Gb PCI-to-PCI Bridge (rev a2) (prog-if 00 [Normal decode])

Flags: bus master, 66Mhz, fast devsel, latency 0

Bus: primary=00, secondary=02, subordinate=02, sec-latency=128

I/O behind bridge: 00009000-00009fff

Memory behind bridge: ea000000-ebffffff

Expansion ROM at 00009000 [disabled] [size=4K]

0000:00:18.0 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] HyperTransport Technology Configuration

Flags: fast devsel

Capabilities: [80] #08 [2101]

0000:00:18.1 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Address Map

Flags: fast devsel

0000:00:18.2 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] DRAM Controller

Flags: fast devsel

0000:00:18.3 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Miscellaneous Control

Flags: fast devsel

0000:01:00.0 VGA compatible controller: nVidia Corporation NV35 [GeForce FX 5900XT] (rev a1) (prog-if 00 [VGA])

Subsystem: LeadTek Research Inc.: Unknown device 2975

Flags: bus master, 66Mhz, medium devsel, latency 248, IRQ 209

Memory at e8000000 (32-bit, non-prefetchable)

Memory at e0000000 (32-bit, prefetchable) [size=128M]

Capabilities: [60] Power Management version 2

Capabilities: [44] AGP version 3.0

0000:02:0d.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10)

Subsystem: Micro-Star International Co., Ltd.: Unknown device 025c

Flags: bus master, 66Mhz, medium devsel, latency 32, IRQ 209

I/O ports at 9000

Memory at eb000000 (32-bit, non-prefetchable) [size=256]

Capabilities: [dc] Power Management version 2

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