

Re: 2.6.24.3: regular sata drive resets – worrisome?

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-03/msg07926.html>

- *From:* Andrew Morton <akpm@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 20 Mar 2008 21:48:30 -0700
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(cc linux-ide)
(regression?)

On Thu, 20 Mar 2008 15:18:31 +0100 Hans-Peter Jansen <hpj@xxxxxxxxxx> wrote:

Hi,

since I upgraded to 2.6.24.3 on one of my production systems, I see regular device resets like these:

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Mar 20 14:33:03 lisa5 kernel: ata2.00: exception Emask 0x0 SAct 0x0 SErr 0x0 action 0x2
frozen
Mar 20 14:33:03 lisa5 kernel: ata2.00: cmd ea/00:00:00:00:00:00:00:00/a0 tag 0
Mar 20 14:33:03 lisa5 kernel: res 40/00:00:01:4f:c2/00:00:00:00/00 Emask 0x4 (timeout)
Mar 20 14:33:03 lisa5 kernel: ata2.00: status: { DRDY }
Mar 20 14:33:03 lisa5 kernel: ata2: hard resetting link
Mar 20 14:33:05 lisa5 kernel: ata2: SATA link up 3.0 Gbps (SStatus 123 SControl 0)
Mar 20 14:33:05 lisa5 kernel: ata2.00: configured for UDMA/100
Mar 20 14:33:05 lisa5 kernel: ata2: EH complete
Mar 20 14:33:05 lisa5 kernel: sd 2:0:0:0: [sdc] 488397168 512-byte hardware sectors
(250059 MB)
Mar 20 14:33:05 lisa5 kernel: sd 2:0:0:0: [sdc] Write Protect is off
Mar 20 14:33:05 lisa5 kernel: sd 2:0:0:0: [sdc] Mode Sense: 00 3a 00 00
Mar 20 14:33:05 lisa5 kernel: sd 2:0:0:0: [sdc] Write cache: enabled, read cache: enabled,
doesn't support DPO or FUA
Mar 20 14:36:11 lisa5 kernel: ata3.00: exception Emask 0x0 SAct 0x0 SErr 0x0 action 0x2
frozen
Mar 20 14:36:11 lisa5 kernel: ata3.00: cmd ea/00:00:00:00:00:00:00:00/a0 tag 0
Mar 20 14:36:11 lisa5 kernel: res 40/00:00:01:4f:c2/00:00:00:00/00 Emask 0x4 (timeout)
Mar 20 14:36:11 lisa5 kernel: ata3.00: status: { DRDY }
Mar 20 14:36:11 lisa5 kernel: ata3: hard resetting link
Mar 20 14:36:13 lisa5 kernel: ata3: SATA link up 3.0 Gbps (SStatus 123 SControl 0)
Mar 20 14:36:13 lisa5 kernel: ata3.00: configured for UDMA/100
Mar 20 14:36:13 lisa5 kernel: ata3: EH complete
Mar 20 14:36:13 lisa5 kernel: sd 3:0:0:0: [sdd] 488397168 512-byte hardware sectors
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doesn't support DPO or FUA

Should I be worried? smartd doesn't show anything suspicious on those.

It's been 4 samsung drives at all hanging on a sata sil 3124:

29: PCI 202.0: 0104 RAID bus controller
[Created at pci.273]
Unique ID: LHB6.kPnnhej1LTC
Parent ID: bSAa.qlvrYsPk2G3
SysFS ID: /devices/pci0000:00/0000:00:0a.0/0000:02:02.0
SysFS BusID: 0000:02:02.0
Hardware Class: storage
Model: "Silicon Image, Inc. (formerly CMD Technology Inc) SiI 3124 PCI-X Serial ATA
Controller"
Vendor: pci 0x1095 "Silicon Image, Inc. (formerly CMD Technology Inc)"
Device: pci 0x3124 "SiI 3124 PCI-X Serial ATA Controller"
SubVendor: pci 0x1095 "Silicon Image, Inc. (formerly CMD Technology Inc)"
SubDevice: pci 0x7124
Revision: 0x01
Driver: "sata_sil24"
Memory Range: 0xfc9ffc00–0xfc9ffc7f (rw,non-prefetchable)
Memory Range: 0xfc9f0000–0xfc9f7fff (rw,non-prefetchable)
I/O Ports: 0xac00–0xac0f (rw)
Memory Range: 0xfc900000–0xfc97ffff (ro,prefetchable,disabled)
IRQ: 17 (20116954 events)
Driver Info #0:
Driver Status: sata_sil24 is active
Driver Activation Cmd: "modprobe sata_sil24"
Config Status: cfg=no, avail=yes, need=no, active=unknown
Attached to: #15 (PCI bridge)

27: IDE 100.0: 10600 Disk
[Created at block.188]
Unique ID: DQI9.0o8IZwvZth7
Parent ID: LHB6.kPnnhej1LTC
SysFS ID: /block/sdb
SysFS BusID: 1:0:0:0
SysFS Device Link: /devices/pci0000:00/0000:00:0a.0/0000:02:02.0/host1/target1:0:0/1:0:0:0
Hardware Class: disk
Model: "SAMSUNG SP2504C"
Vendor: "SAMSUNG"
Device: "SP2504C"
Revision: "VT10"
Serial ID: "S09QJ1GYA03006"
Driver: "sata_sil24", "sd"
Device File: /dev/sdb
Device

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Files: /dev/sdb, /dev/disk/by-path/pci-0000:02:02.0-scsi-0:0:0:0,
/dev/disk/by-id/1ATA_SAMSUNG_SP2504C_S09QJ1GYA03006
Device Number: block 8:16-8:31
Geometry (Logical): CHS 30401/255/63
Size: 488397168 sectors a 512 bytes
Config Status: cfg=no, avail=yes, need=no, active=unknown
Attached to: #20 (RAID bus controller)

28: IDE 200.0: 10600 Disk
[Created at block.188]
Unique ID: gbYD.jbwYSfXQ1s1
Parent ID: LHB6.kPnnhej1LTC
SysFS ID: /block/sdc
SysFS BusID: 2:0:0:0
SysFS Device Link: /devices/pci0000:00/0000:00:0a.0/0000:02:02.0/host2/target2:0:0/2:0:0:0
Hardware Class: disk
Model: "SAMSUNG SP2504C"
Vendor: "SAMSUNG"
Device: "SP2504C"
Revision: "VT10"
Serial ID: "S09QJ1GYA03003"
Driver: "sata_sil24", "sd"
Device File: /dev/sdc
Device
Files: /dev/sdc, /dev/disk/by-path/pci-0000:02:02.0-scsi-1:0:0:0,
/dev/disk/by-id/1ATA_SAMSUNG_SP2504C_S09QJ1GYA03003
Device Number: block 8:32-8:47
Geometry (Logical): CHS 30401/255/63
Size: 488397168 sectors a 512 bytes
Config Status: cfg=no, avail=yes, need=no, active=unknown
Attached to: #20 (RAID bus controller)

29: IDE 300.0: 10600 Disk
[Created at block.188]
Unique ID: 8noH.C6Upa9vrTP5
Parent ID: LHB6.kPnnhej1LTC
SysFS ID: /block/sdd
SysFS BusID: 3:0:0:0
SysFS Device Link: /devices/pci0000:00/0000:00:0a.0/0000:02:02.0/host3/target3:0:0/3:0:0:0
Hardware Class: disk
Model: "SAMSUNG SP2504C"
Vendor: "SAMSUNG"
Device: "SP2504C"
Revision: "VT10"
Serial ID: "S09QJ1GYA02991"
Driver: "sata_sil24", "sd"
Device File: /dev/sdd
Device
Files: /dev/sdd, /dev/disk/by-path/pci-0000:02:02.0-scsi-2:0:0:0,
/dev/disk/by-id/1ATA_SAMSUNG_SP2504C_S09QJ1GYA02991
Device Number: block 8:48-8:63

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Geometry (Logical): CHS 30401/255/63
Size: 488397168 sectors a 512 bytes
Config Status: cfg=no, avail=yes, need=no, active=unknown
Attached to: #20 (RAID bus controller)

30: IDE 400.0: 10600 Disk
[Created at block.188]
Unique ID: by2M.RNPEDP68X7E
Parent ID: LHB6.kPnnhej1LTC
SysFS ID: /block/sde
SysFS BusID: 4:0:0:0
SysFS Device Link: /devices/pci0000:00/0000:00:0a.0/0000:02:02.0/host4/target4:0:0/4:0:0:0
Hardware Class: disk
Model: "SAMSUNG SP2504C"
Vendor: "SAMSUNG"
Device: "SP2504C"
Revision: "VT10"
Serial ID: "S09QJ1GYA02990"
Driver: "sata_sil24", "sd"
Device File: /dev/sde
Device
Files: /dev/sde, /dev/disk/by-path/pci-0000:02:02.0-scsi-3:0:0:0,
/dev/disk/by-id/ATA_SAMSUNG_SP2504C_S09QJ1GYA02990
Device Number: block 8:64-8:79
Geometry (Logical): CHS 30401/255/63
Size: 488397168 sectors a 512 bytes
Config Status: cfg=no, avail=yes, need=no, active=unknown
Attached to: #20 (RAID bus controller)

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