

## Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-05/msg11902.html>

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  - *Date:* Sat, 26 May 2007 21:46:02 -0400
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On Sat, 2007-05-26 at 17:38 -0400, Jeff Garzik wrote:

Dave Dillow wrote:

It is likely I can come up with at least one, and maybe two if I cannibalize my main machine... do you want results under all three kernels or just the v4 patch?

Mainly the v4 patch, but an it-works test on 2.6.22-rc3 just for sanity's sake would be useful as well.

If you have time, check both new and old drives with SMART  
`smartctl -d ata -t long /dev/blahblah`

Whew, this has been fun. Nothing like having your 4yr old complain about not being able to get to his email... "Daddy's working on it, why don't you play outside?" :)

So, I added WDC WD1600JS-00N to the mix. This worked much better.

2.6.22-rc3-new.log is the baseline boot -- walking the tree with find worked well, and I got 61MB/s reading the first 10/11GB or so.

2.6.22-rc3-mv4-new.log is a boot using the new driver, and only has the WD attached. Again, everything is happy -- no warnings.

2.6.22-rc3-mv4-new2.log -- I put the Maxtor disks back online, and now I get tons of WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue() and WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

It eventually booted, but I had stopped the console log at that point. So, enter 2.6.22-rc3-mv4-new3.log wherein I try to reboot and let it come all the way up to try testing in the presence of the warnings. However, this time, md0 mounts, but I immediately get I/O errors. I tried dmesg to see if something got lost, but the log is faithful. This could be ext3 corruption from previous testing, but there is no record of problems anywhere. And I've forced fsck since the last known

corruption.

Still, I've not been able to recreate the issue I had with the corruption before, but I've been turning off the machine each time, so I try a warm-boot. 2.6.22-rc3-mv4-new4-warm.log gives the now familiar warnings, and wedges at the end of the log.

I run smart long tests on my drives every two weeks, and short tests every day using smartd's scheduling options. Just to be sure, I ran the long tests again, and had no errors. Of course, shortly after that, I now have had to correct an uncorrectable error on one of the drives, and am currently resyncing the RAID.

At least Tommy could get his email, if he were still awake... :)

I've seen some chatter on forums about certain versions of the 6L200S0's firmware having an issue with NCQ and nForce chipsets, but I don't think it applies to the firmware I have, nor can I seem to find an update on Maxtor/Seagate's site. Is there a command line option I can give to disable NCQ, or will I need to play with the blacklist to turn it off? Do you think that is an avenue worth pursuing?

Also, my main machine has a Maxtor 6Y120M0. It is more of a pain to test it on the Marvell chipset, but I'd rather not unless you think it will be worth it.

Dave

Booting command-list

```
root (hd0,0)
Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-2.6.22-rc3-mv4 ro root=LABEL=/ console=ttyS0,115200n1 ignore_lo
glevel single
[Linux-bzImage, setup=0x1400, size=0x11ac50]
initrd /initrd-2.6.22-rc3-mv4.img
[Linux-initrd @ 0x37e83000, 0x16c7af bytes]
```

```
Linux version 2.6.22-rc3-mv4 (il1@xxxxxxxxxxxxxxxxxxxxxx) (gcc version 4.1.1 20070105 (Red Hat
4.1.1-52)) #23 SMP Sat May 26 12:54:54 EDT 2007
BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 - 000000000009bc00 (usable)
BIOS-e820: 000000000009bc00 - 00000000000a0000 (reserved)
BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 - 000000003fffc000 (usable)
BIOS-e820: 000000003fffc000 - 000000003ffff000 (ACPI data)
BIOS-e820: 000000003ffff000 - 0000000040000000 (ACPI NVS)
BIOS-e820: 00000000fec00000 - 00000000fec01000 (reserved)
BIOS-e820: 00000000fee00000 - 00000000fee01000 (reserved)
BIOS-e820: 00000000ffff0000 - 0000000100000000 (reserved)
```

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Warning only 896MB will be used.  
Use a HIGHMEM enabled kernel.  
896MB LOWMEM available.  
found SMP MP-table at 000f54d0  
Entering add\_active\_range(0, 0, 229376) 0 entries of 256 used  
Zone PFN ranges:  
DMA 0 -> 4096  
Normal 4096 -> 229376  
early\_node\_map[1] active PFN ranges  
0: 0 -> 229376  
On node 0 totalpages: 229376  
DMA zone: 32 pages used for memmap  
DMA zone: 0 pages reserved  
DMA zone: 4064 pages, LIFO batch:0  
Normal zone: 1760 pages used for memmap  
Normal zone: 223520 pages, LIFO batch:31  
DMI 2.3 present.  
ACPI: RSDP 000F6870, 0014 (r0 ASUS )  
ACPI: RSDT 3FFFC000, 0030 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)  
ACPI: FACP 3FFFC100, 0074 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)  
ACPI: DSDT 3FFFC180, 25F6 (r1 ASUS CUV4X-D 1000 MSFT 100000B)  
ACPI: FACS 3FFFF000, 0040  
ACPI: BOOT 3FFFC040, 0028 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)  
ACPI: APIC 3FFFC080, 005C (r1 ASUS CUV4X-D 30303031 MSFT 31313031)  
ACPI: PM-Timer IO Port: 0xe408  
ACPI: Local APIC address 0xfe00000  
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: IOAPIC (id[0x02] address[0xfec00000] gsi\_base[0])  
IOAPIC[0]: apic\_id 2, version 17, address 0xfec00000, GSI 0-23  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 0 global\_irq 2 dfl edge)  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 9 global\_irq 9 low level)  
ACPI: IRQ0 used by override.  
ACPI: IRQ2 used by override.  
ACPI: IRQ9 used by override.  
Enabling APIC mode: Flat. Using 1 I/O APICs  
Using ACPI (MADT) for SMP configuration information  
Allocating PCI resources starting at 50000000 (gap: 40000000:bec00000)  
Built 1 zonelists. Total pages: 227584  
Kernel command line: ro root=LABEL=/ console=ttyS0,115200n1 ignore\_loglevel single  
debug: ignoring loglevel setting.  
mapped APIC to fffd000 (fee00000)  
mapped IOAPIC to fffc000 (fec00000)  
Enabling fast FPU save and restore... done.  
Enabling unmasked SIMD FPU exception support... done.  
Initializing CPU#0  
PID hash table entries: 4096 (order: 12, 16384 bytes)  
Detected 1004.573 MHz processor.  
Console: colour VGA+ 80x25

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Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)  
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)  
Memory: 905128k/917504k available (1403k kernel code, 11880k reserved, 555k data, 212k init, 0k highmem)  
virtual kernel memory layout:  
fixmap : 0xffffb7000 – 0xfffff000 ( 288 kB)  
vmalloc : 0xf8800000 – 0xffffb5000 ( 119 MB)  
lowmem : 0xc0000000 – 0xf8000000 ( 896 MB)  
.init : 0xc02ef000 – 0xc0324000 ( 212 kB)  
.data : 0xc025edfd – 0xc02e9a34 ( 555 kB)  
.text : 0xc0100000 – 0xc025edfd (1403 kB)  
Checking if this processor honours the WP bit even in supervisor mode... Ok.  
Calibrating delay using timer specific routine.. 2011.05 BogoMIPS (lpj=4022110)  
Mount-cache hash table entries: 512  
CPU: After generic 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 fffff000.  
Checking 'hlt' instruction... OK.  
Freeing SMP alternatives: 11k freed  
ACPI: Core revision 20070126  
CPU0: Intel Pentium III (Coppermine) stepping 0a  
Booting processor 1/0 eip 2000  
Initializing CPU#1  
Calibrating delay using timer specific routine.. 2009.18 BogoMIPS (lpj=4018371)  
CPU: After generic identify, caps: 0383fbff 00000000 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 0a  
Total of 2 processors activated (4020.24 BogoMIPS).  
ENABLING IO-APIC IRQs  
..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1  
checking TSC synchronization [CPU#0 -> CPU#1]: passed.  
Brought up 2 CPUs  
migration\_cost=528  
NET: Registered protocol family 16  
ACPI: bus type pci registered  
PCI: PCI BIOS revision 2.10 entry at 0xf0d20, last bus=1  
PCI: Using configuration type 1  
Setting up standard PCI resources  
ACPI: Interpreter enabled  
ACPI: Using IOAPIC for interrupt routing  
ACPI: PCI Root Bridge [PCI0] (0000:00)  
PCI: Probing PCI hardware (bus 00)  
PCI quirk: region e800–e80f claimed by vt82c686 SMB

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ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.\_PRT]  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.PCI1.\_PRT]  
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 9 10 \*11 12 14 15)  
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 9 \*10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 \*5 6 7 9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 6 7 9 10 11 12 14 15) \*0, disabled.  
Linux Plug and Play Support v0.97 (c) Adam Belay  
pnp: PnP ACPI init  
ACPI: bus type pnp registered  
pnp: PnP ACPI: found 13 devices  
ACPI: ACPI bus type pnp unregistered  
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: 00:00: iomem range 0x0-0x9fff could not be reserved  
pnp: 00:00: iomem range 0xf0000-0xfffff could not be reserved  
pnp: 00:00: iomem range 0x100000-0x3fffffff could not be reserved  
pnp: 00:00: iomem range 0xfffe0000-0xffffffff could not be reserved  
pnp: 00:03: ioport range 0xe400-0xe47f has been reserved  
pnp: 00:03: ioport range 0xe800-0xe80f has been reserved  
Time: tsc clocksource has been installed.  
PCI: Bridge: 0000:00:01.0  
IO window: disabled.  
MEM window: e8000000-f7cffff  
PREFETCH window: f7f00000-fbffffff  
PCI: Setting latency timer of device 0000:00:01.0 to 64  
NET: Registered protocol family 2  
IP route cache hash table entries: 32768 (order: 5, 131072 bytes)  
TCP established hash table entries: 131072 (order: 8, 1572864 bytes)  
TCP bind hash table entries: 65536 (order: 7, 524288 bytes)  
TCP: Hash tables configured (established 131072 bind 65536)  
TCP reno registered  
checking if image is initramfs... it is  
Freeing initrd memory: 1457k freed  
Simple Boot Flag at 0x3a set to 0x1  
io scheduler noop registered  
io scheduler anticipatory registered  
io scheduler deadline registered  
io scheduler cfq registered (default)  
PCI: Enabling Via external APIC routing  
Boot video device is 0000:01:00.0  
input: Power Button (FF) as /class/input/input0  
ACPI: Power Button (FF) [PWRFB]  
input: Power Button (CM) as /class/input/input1  
ACPI: Power Button (CM) [PWRB]  
isapnp: Scanning for PnP cards...  
isapnp: No Plug & Play device found  
Real Time Clock Driver v1.12ac  
Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing disabled  
00:0a: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A  
00:0b: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A

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```
RAMDISK driver initialized: 16 RAM disks of 4096K 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
PDC20269: IDE controller at PCI slot 0000:00:09.0
ACPI: PCI Interrupt 0000:00:09.0[A] -> GSI 19 (level, low) -> IRQ 16
PDC20269: chipset revision 2
PDC20269: ROM enabled at 0x50040000
PDC20269: PLL input clock is 16644 kHz
PDC20269: 100% native mode on irq 16
ide2: BM-DMA at 0xa400-0xa407, BIOS settings: hde:pio, hdf:pio
ide3: BM-DMA at 0xa408-0xa40f, BIOS settings: hdg:pio, hdh:pio
Probing IDE interface ide2...
hde: Maxtor 6Y120L0, ATA DISK drive
hde: selected mode 0x46
ide2 at 0xb800-0xb807,0xb402 on irq 16
Probing IDE interface ide3...
hdg: ST380013A, ATA DISK drive
hdg: selected mode 0x45
ide3 at 0xb000-0xb007,0xa802 on irq 16
Probing IDE interface ide0...
hda: Maxtor 4D040H2, ATA DISK drive
Probing IDE interface ide1...
hdc: IOMEGA ZIP 250 ATAPI Floppy, ATAPI FLOPPY drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
ide1 at 0x170-0x177,0x376 on irq 15
hde: max request size: 128KiB
hde: 240121728 sectors (122942 MB) w/2048KiB Cache, CHS=65535/16/63, UDMA(133)
hde: cache flushes supported
hde: hde1
hdg: max request size: 512KiB
hdg: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=16383/255/63, UDMA(100)
hdg: cache flushes supported
hdg: hdg1
hda: max request size: 128KiB
hda: 80043264 sectors (40982 MB) w/2048KiB Cache, CHS=65535/16/63
hda: cache flushes not supported
hda: hda1 hda2 hda3
PNP: PS/2 Controller [PNP0303:PS2K] at 0x60,0x64 irq 1
PNP: PS/2 controller doesn't have AUX irq; using default 12
serio: i8042 KBD port at 0x60,0x64 irq 1
serio: i8042 AUX port at 0x60,0x64 irq 12
mice: PS/2 mouse device common for all mice
input: AT Translated Set 2 keyboard as /class/input/input2
TCP cubic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
Starting balanced_irq
Using IPI Shortcut mode
Freeing unused kernel memory: 212k freed
Red Hat nash version 5.1.19.6 starting
Mounting proc filesystem
```

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```
Mounting sysfs filesystem
Creating /dev
Creating initial device nodes
Setting up hotplug.
Creating block device nodes.
Loading mbcache.ko module
Loading jbd.ko module
Loading ext3.ko module
Loading scsi_mod.ko module
SCSI subsystem initialized
Loading sd_mod.ko module
Loading libata.ko module
libata version 2.21 loaded.
Loading sata_mv.ko module
sata_mv 0000:00:0a.0: version 0.81
ACPI: PCI Interrupt 0000:00:0a.0[A] -> GSI 18 (level, low) -> IRQ 17
sata_mv 0000:00:0a.0: Applying B2 workarounds to unknown rev
sata_mv 0000:00:0a.0: 32 slots 4 ports unknown mode IRQ via INTx
scsi0 : sata_mv
scsi1 : sata_mv
scsi2 : sata_mv
scsi3 : sata_mv
ata1: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8922120 bmdma 0x00000000 irq 0
ata2: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8924120 bmdma 0x00000000 irq 0
ata3: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8926120 bmdma 0x00000000 irq 0
ata4: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8928120 bmdma 0x00000000 irq 0
ata1: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
ata1.00: ata_hpa_resize 1: sectors = 312581808, hpa_sectors = 312581808
ata1.00: ATA-7: WDC WD1600JS-00NCB1, 10.02E02, max UDMA/133
ata1.00: 312581808 sectors, multi 0: LBA48 NCQ (depth 0/32)
ata1.00: ata_hpa_resize 1: sectors = 312581808, hpa_sectors = 312581808
ata1.00: configured for UDMA/133
ata2: SATA link down (SStatus 0 SControl 300)
ata3: SATA link down (SStatus 0 SControl 300)
ata4: SATA link down (SStatus 0 SControl 300)
scsi 0:0:0:0: Direct-Access ATA WDC WD1600JS-00N 10.0 PQ: 0 ANSI: 5
sd 0:0:0:0: [sda] 312581808 512-byte hardware sectors (160042 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 0:0:0:0: [sda] 312581808 512-byte hardware sectors (160042 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sda: sda1 sda2 sda3
sd 0:0:0:0: [sda] Attached SCSI disk
Waiting for driver initialization.
Creating root device.
Mounting root filesystem.
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
```

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```
Setting up other filesystems.
Setting up new root fs
no fstab.sys, mounting internal defaults
Switching to new root and running init.
unmounting old /dev
unmounting old /proc
unmounting old /sys
INIT: version 2.86 booting
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
Welcome to CentOS release 5 (Final)
Press 'I' to enter interactive startup.
Setting clock (utc): Sat May 26 18:39:45 EDT 2007 [ OK ]
Starting udev: parport_pc: VIA 686A/8231 detected
parport_pc: probing current configuration
parport_pc: Current parallel port base: 0x378
parport0: PC-style at 0x378 (0x778), irq 7, using FIFO [PCSPP,TRISTATE,COMPAT,ECP]
parport_pc: VIA parallel port: io=0x378, irq=7
PCI: Enabling device 0000:00:0c.0 (0014 -> 0017)
ACPI: PCI Interrupt 0000:00:0c.0[A] -> GSI 16 (level, low) -> IRQ 18
3c59x: Donald Becker and others.
0000:00:0c.0: 3Com PCI 3cSOHO100-TX Hurricane at f8810000.
Intel(R) PRO/1000 Network Driver - version 7.3.20-k2
Copyright (c) 1999-2006 Intel Corporation.
ACPI: PCI Interrupt 0000:00:0b.0[A] -> GSI 17 (level, low) -> IRQ 19
e1000: 0000:00:0b.0: e1000_probe: (PCI:33MHz:32-bit) 00:0e:0c:6c:66:b3
sd 0:0:0:0: Attached scsi generic sg0 type 0
e1000: eth1: e1000_probe: Intel(R) PRO/1000 Network Connection
typhoon.c: version 1.5.8 (06/11/09)
PCI: Enabling device 0000:00:0d.0 (0014 -> 0017)
ACPI: PCI Interrupt 0000:00:0d.0[A] -> GSI 19 (level, low) -> IRQ 16
ACPI: PCI interrupt for device 0000:00:0d.0 disabled
eth2: 3Com Typhoon2 (3C990B-FX-97) at MMIO 0xe4800000, 00:0a:5e:1b:95:7b
eth2: Typhoon 1.1+ Sleep Image version 03.001.007 03:11:11 07/23/01 0000156
[ OK ]
lp0: using parport0 (interrupt-driven).
Loading default keymap (us): [ OK ]
Setting hostname shed.thedillows.org: [ OK ]
md: Autodetecting RAID arrays.
md: autorun ...
md: considering hdg1 ...
md: adding hdg1 ...
md: adding hde1 ...
md: created md2
md: bind<hde1>
md: bind<hdg1>
md: running: <hdg1><hde1>
md: raid0 personality registered for level 0
md2: setting max_sectors to 128, segment boundary to 32767
raid0: looking at hdg1
```

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raid0: comparing hdg1(78148096) with hdg1(78148096)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at hde1
raid0: comparing hde1(120060736) with hdg1(78148096)
raid0: NOT EQUAL
raid0: comparing hde1(120060736) with hde1(120060736)
raid0: END
raid0: ==> UNIQUE
raid0: 2 zones
raid0: FINAL 2 zones
raid0: zone 1
raid0: checking hdg1 ... nope.
raid0: checking hde1 ... contained as device 0
(120060736) is smallest!.
raid0: zone->nb_dev: 1, size: 41912640
raid0: current zone offset: 120060736
raid0: done.
raid0 : md_size is 198208832 blocks.
raid0 : conf->hash_spacing is 156296192 blocks.
raid0 : nb_zone is 2.
raid0 : Allocating 8 bytes for hash.
md: ... autorun DONE.
md: md0 stopped.
mdadm: no devices found for /dev/md0
mdadm: error opening /dev/md1: No such file or directory
device-mapper: ioctl: 4.11.0--ioctl (2006-10-12) initialised: dm-devel@xxxxxxxxxxx
Setting up Logical Volume Management: No volume groups found
[ OK ]
Checking filesystems
Checking all file systems.
[/sbin/fsck.ext3 (1) -- /] fsck.ext3 -a /dev/hda3
/: clean, 103132/9843904 files, 1009413/9835796 blocks
[/sbin/fsck.ext3 (1) -- /data] fsck.ext3 -a /dev/md2
/data: clean, 18062/24788992 files, 35908947/49552208 blocks
[/sbin/fsck.ext3 (1) -- /boot] fsck.ext3 -a /dev/hda1
/boot1: clean, 56/38152 files, 34077/152584 blocks
[ OK ]
Remounting root filesystem in read-write mode: EXT3 FS on hda3, internal journal
[ OK ]
Mounting local filesystems: kjournald starting. Commit interval 5 seconds
EXT3 FS on hda1, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS on md2, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
[ OK ]
Enabling local filesystem quotas: quotaon: Warning: No quota format detected in the kernel.
[ OK ]
Enabling /etc/fstab swaps: Adding 522104k swap on /dev/hda2. Priority:-1 extents:1 across:522104k
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[ OK ]
sh-3.1# mount -oro /dev/sda3 /mnt
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
sh-3.1# find /mnt > /dev/null
sh-3.1# dd if=/dev/sda of=/dev/null bs=1024k count=10240
10240+0 records in
10240+0 records out
10737418240 bytes (11 GB) copied, 175.829 seconds, 61.1 MB/s
sh-3.1# umount /mnt
sh-3.1# shutdown -h now
INIT: Switching to runlevel: 0
sh-3.1# INIT: Sending processes the TERM signal
INIT: Starting killall: [ OK ]
Sending all processes the TERM signal...
Sending all processes the KILL signal...
Saving random seed:
Syncing hardware clock to system time
Turning off swap:
Turning off quotas: quotaoff: Warning: No quota format detected in the kernel.
```

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Unmounting file systems:
Halting system...
md: stopping all md devices.
md: md2 switched to read-only mode.
sd 0:0:0:0: [sda] Synchronizing SCSI cache
sd 0:0:0:0: [sda] Stopping disk
Shutdown: hda
Shutdown: hdg
Shutdown: hde
ACPI: PCI interrupt for device 0000:00:0b.0 disabled
Power down.
acpi_power_off called
Booting command-list
```

```
root (hd0,0)
Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-2.6.22-rc3-mv4 ro root=LABEL=/ console=ttyS0,115200n1 ignore_lo
glevel single
[Linux-bzImage, setup=0x1400, size=0x11ac50]
initrd /initrd-2.6.22-rc3-mv4.img
[Linux-initrd @ 0x37e83000, 0x16c7af bytes]
```

```
Linux version 2.6.22-rc3-mv4 (il1@xxxxxxxxxxxxxxxxxxxxxx) (gcc version 4.1.1 20070105 (Red Hat
4.1.1-52)) #23 SMP Sat May 26 12:54:54 EDT 2007
BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 - 000000000009bc00 (usable)
BIOS-e820: 000000000009bc00 - 00000000000a0000 (reserved)
BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 - 0000000003fffc000 (usable)
BIOS-e820: 0000000003fffc000 - 0000000003ffff000 (ACPI data)
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

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```
BIOS-e820: 000000003ffff000 - 0000000040000000 (ACPI NVS)
BIOS-e820: 00000000fec00000 - 00000000fec01000 (reserved)
BIOS-e820: 00000000fee00000 - 00000000fee01000 (reserved)
BIOS-e820: 00000000ffff0000 - 0000000100000000 (reserved)
Warning only 896MB will be used.
Use a HIGHMEM enabled kernel.
896MB LOWMEM available.
found SMP MP-table at 000f54d0
Entering add_active_range(0, 0, 229376) 0 entries of 256 used
Zone PFN ranges:
DMA 0 -> 4096
Normal 4096 -> 229376
early_node_map[1] active PFN ranges
0: 0 -> 229376
On node 0 totalpages: 229376
DMA zone: 32 pages used for memmap
DMA zone: 0 pages reserved
DMA zone: 4064 pages, LIFO batch:0
Normal zone: 1760 pages used for memmap
Normal zone: 223520 pages, LIFO batch:31
DMI 2.3 present.
ACPI: RSDP 000F6870, 0014 (r0 ASUS )
ACPI: RSDT 3FFFC000, 0030 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)
ACPI: FACP 3FFFC100, 0074 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)
ACPI: DSDT 3FFFC180, 25F6 (r1 ASUS CUV4X-D 1000 MSFT 100000B)
ACPI: FACS 3FFFF000, 0040
ACPI: BOOT 3FFFC040, 0028 (r1 ASUS CUV4X-D 30303031 MSFT 31313031)
ACPI: APIC 3FFFC080, 005C (r1 ASUS CUV4X-D 30303031 MSFT 31313031)
ACPI: PM-Timer IO Port: 0xe408
ACPI: Local APIC address 0xfe00000
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: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, version 17, address 0xfec00000, GSI 0-23
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl edge)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 low level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
Enabling APIC mode: Flat. Using 1 I/O APICs
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 50000000 (gap: 40000000:bec00000)
Built 1 zonelists. Total pages: 227584
Kernel command line: ro root=LABEL=/ console=ttyS0,115200n1 ignore_loglevel single
debug: ignoring loglevel setting.
mapped APIC to fffd000 (fee00000)
mapped IOAPIC to fffc000 (fec00000)
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

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Initializing CPU#0

PID hash table entries: 4096 (order: 12, 16384 bytes)

Detected 1004.573 MHz processor.

Console: colour VGA+ 80x25

Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)

Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)

Memory: 905128k/917504k available (1403k kernel code, 11880k reserved, 555k data, 212k init, 0k highmem)

virtual kernel memory layout:

fixmap : 0xffffb7000 – 0xfffff000 ( 288 kB)

vmalloc : 0xf8800000 – 0xffffb5000 ( 119 MB)

lowmem : 0xc0000000 – 0xf8000000 ( 896 MB)

.init : 0xc02ef000 – 0xc0324000 ( 212 kB)

.data : 0xc025edfd – 0xc02e9a34 ( 555 kB)

.text : 0xc0100000 – 0xc025edfd (1403 kB)

Checking if this processor honours the WP bit even in supervisor mode... Ok.

Calibrating delay using timer specific routine.. 2011.03 BogoMIPS (lpj=4022070)

Mount-cache hash table entries: 512

CPU: After generic 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

Intel machine check architecture supported.

Intel machine check reporting enabled on CPU#0.

Compat vDSO mapped to fffff000.

Checking 'hlt' instruction... OK.

Freeing SMP alternatives: 11k freed

ACPI: Core revision 20070126

CPU0: Intel Pentium III (Coppermine) stepping 0a

Booting processor 1/0 eip 2000

Initializing CPU#1

Calibrating delay using timer specific routine.. 2009.19 BogoMIPS (lpj=4018397)

CPU: After generic 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

Intel machine check architecture supported.

Intel machine check reporting enabled on CPU#1.

CPU1: Intel Pentium III (Coppermine) stepping 0a

Total of 2 processors activated (4020.23 BogoMIPS).

ENABLING IO-APIC IRQs

..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1

checking TSC synchronization [CPU#0 -> CPU#1]: passed.

Brought up 2 CPUs

migration\_cost=533

NET: Registered protocol family 16

ACPI: bus type pci registered

PCI: PCI BIOS revision 2.10 entry at 0xf0d20, last bus=1

PCI: Using configuration type 1

Setting up standard PCI resources

ACPI: Interpreter enabled

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

ACPI: Using IOAPIC for interrupt routing  
ACPI: PCI Root Bridge [PCI0] (0000:00)  
PCI: Probing PCI hardware (bus 00)  
PCI quirk: region e800–e80f claimed by vt82c686 SMB  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.\_PRT]  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.PCI1.\_PRT]  
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 9 10 \*11 12 14 15)  
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 9 \*10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 \*5 6 7 9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 6 7 9 10 11 12 14 15) \*0, disabled.  
Linux Plug and Play Support v0.97 (c) Adam Belay  
pnp: PnP ACPI init  
ACPI: bus type pnp registered  
pnp: PnP ACPI: found 13 devices  
ACPI: ACPI bus type pnp unregistered  
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: 00:00: iomem range 0x0–0x9fff could not be reserved  
pnp: 00:00: iomem range 0xf0000–0xfffff could not be reserved  
pnp: 00:00: iomem range 0x100000–0x3fffffff could not be reserved  
pnp: 00:00: iomem range 0xfffe0000–0xffffffff could not be reserved  
pnp: 00:03: ioport range 0xe400–0xe47f has been reserved  
pnp: 00:03: ioport range 0xe800–0xe80f has been reserved  
Time: tsc clocksource has been installed.  
PCI: Bridge: 0000:00:01.0  
IO window: disabled.  
MEM window: e8000000–f7cfffff  
PREFETCH window: f7f00000–fbffffff  
PCI: Setting latency timer of device 0000:00:01.0 to 64  
NET: Registered protocol family 2  
IP route cache hash table entries: 32768 (order: 5, 131072 bytes)  
TCP established hash table entries: 131072 (order: 8, 1572864 bytes)  
TCP bind hash table entries: 65536 (order: 7, 524288 bytes)  
TCP: Hash tables configured (established 131072 bind 65536)  
TCP reno registered  
checking if image is initramfs... it is  
Freeing initrd memory: 1457k freed  
Simple Boot Flag at 0x3a set to 0x1  
io scheduler noop registered  
io scheduler anticipatory registered  
io scheduler deadline registered  
io scheduler cfq registered (default)  
PCI: Enabling Via external APIC routing  
Boot video device is 0000:01:00.0  
input: Power Button (FF) as /class/input/input0  
ACPI: Power Button (FF) [PWRF]  
input: Power Button (CM) as /class/input/input1  
ACPI: Power Button (CM) [PWRB]  
isapnp: Scanning for PnP cards...  
isapnp: No Plug & Play device found

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Real Time Clock Driver v1.12ac

Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing disabled

00:0a: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A

00:0b: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A

RAMDISK driver initialized: 16 RAM disks of 4096K 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

PDC20269: IDE controller at PCI slot 0000:00:09.0

ACPI: PCI Interrupt 0000:00:09.0[A] -> GSI 19 (level, low) -> IRQ 16

PDC20269: chipset revision 2

PDC20269: ROM enabled at 0x50040000

PDC20269: PLL input clock is 16634 kHz

PDC20269: 100% native mode on irq 16

ide2: BM-DMA at 0xa400-0xa407, BIOS settings: hde:pio, hdf:pio

ide3: BM-DMA at 0xa408-0xa40f, BIOS settings: hdg:pio, hdh:pio

Probing IDE interface ide2...

hde: Maxtor 6Y120L0, ATA DISK drive

hde: selected mode 0x46

ide2 at 0xb800-0xb807,0xb402 on irq 16

Probing IDE interface ide3...

hdg: ST380013A, ATA DISK drive

hdg: selected mode 0x45

ide3 at 0xb000-0xb007,0xa802 on irq 16

Probing IDE interface ide0...

hda: Maxtor 4D040H2, ATA DISK drive

Probing IDE interface ide1...

hdc: IOMEGA ZIP 250 ATAPI Floppy, ATAPI FLOPPY drive

ide0 at 0x1f0-0x1f7,0x3f6 on irq 14

ide1 at 0x170-0x177,0x376 on irq 15

hde: max request size: 128KiB

hde: 240121728 sectors (122942 MB) w/2048KiB Cache, CHS=65535/16/63, UDMA(133)

hde: cache flushes supported

hde: hde1

hdg: max request size: 512KiB

hdg: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=16383/255/63, UDMA(100)

hdg: cache flushes supported

hdg: hdg1

hda: max request size: 128KiB

hda: 80043264 sectors (40982 MB) w/2048KiB Cache, CHS=65535/16/63

hda: cache flushes not supported

hda: hda1 hda2 hda3

PNP: PS/2 Controller [PNP0303:PS2K] at 0x60,0x64 irq 1

PNP: PS/2 controller doesn't have AUX irq; using default 12

serio: i8042 KBD port at 0x60,0x64 irq 1

serio: i8042 AUX port at 0x60,0x64 irq 12

mice: PS/2 mouse device common for all mice

input: AT Translated Set 2 keyboard as /class/input/input2

TCP cubic registered

NET: Registered protocol family 1

NET: Registered protocol family 17

Starting balanced\_irq

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
Using IPI Shortcut mode
Freeing unused kernel memory: 212k freed
Red Hat nash version 5.1.19.6 starting
Mounting proc filesystem
Mounting sysfs filesystem
Creating /dev
Creating initial device nodes
Setting up hotplug.
Creating block device nodes.
Loading mbcache.ko module
Loading jbd.ko module
Loading ext3.ko module
Loading scsi_mod.ko module
SCSI subsystem initialized
Loading sd_mod.ko module
Loading libata.ko module
libata version 2.21 loaded.
Loading sata_mv.ko module
sata_mv 0000:00:0a.0: version 0.81
ACPI: PCI Interrupt 0000:00:0a.0[A] -> GSI 18 (level, low) -> IRQ 17
sata_mv 0000:00:0a.0: Applying B2 workarounds to unknown rev
sata_mv 0000:00:0a.0: 32 slots 4 ports unknown mode IRQ via INTx
scsi0 : sata_mv
scsi1 : sata_mv
scsi2 : sata_mv
scsi3 : sata_mv
ata1: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8922120 bmdma 0x00000000 irq 0
ata2: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8924120 bmdma 0x00000000 irq 0
ata3: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8926120 bmdma 0x00000000 irq 0
ata4: SATA max UDMA/133 cmd 0x00000000 ctl 0xf8928120 bmdma 0x00000000 irq 0
ata1: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
ata1.00: ata_hpa_resize 1: sectors = 398297088, hpa_sectors = 398297088
ata1.00: ATA-7: Maxtor 6L200S0, BACE1G10, max UDMA/133
ata1.00: 398297088 sectors, multi 0: LBA48 NCQ (depth 0/32)
ata1.00: ata_hpa_resize 1: sectors = 398297088, hpa_sectors = 398297088
ata1.00: configured for UDMA/133
ata2: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
ata2.00: ata_hpa_resize 1: sectors = 398297088, hpa_sectors = 398297088
ata2.00: ATA-7: Maxtor 6L200S0, BACE1G10, max UDMA/133
ata2.00: 398297088 sectors, multi 0: LBA48 NCQ (depth 0/32)
ata2.00: ata_hpa_resize 1: sectors = 398297088, hpa_sectors = 398297088
ata2.00: configured for UDMA/133
ata3: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
ata3.00: ata_hpa_resize 1: sectors = 312581808, hpa_sectors = 312581808
ata3.00: ATA-7: WDC WD1600JS-00NCB1, 10.02E02, max UDMA/133
ata3.00: 312581808 sectors, multi 0: LBA48 NCQ (depth 0/32)
ata3.00: ata_hpa_resize 1: sectors = 312581808, hpa_sectors = 312581808
ata3.00: configured for UDMA/133
ata4: SATA link down (SStatus 0 SControl 300)
scsi 0:0:0:0: Direct-Access ATA Maxtor 6L200S0 BACE PQ: 0 ANSI: 5
sd 0:0:0:0: [sda] 398297088 512-byte hardware sectors (203928 MB)
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

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```
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 0:0:0:0: [sda] 398297088 512-byte hardware sectors (203928 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sda: sda1 sda2
sd 0:0:0:0: [sda] Attached SCSI disk
scsi 1:0:0:0: Direct-Access ATA Maxtor 6L200S0 BACE PQ: 0 ANSI: 5
sd 1:0:0:0: [sdb] 398297088 512-byte hardware sectors (203928 MB)
sd 1:0:0:0: [sdb] Write Protect is off
sd 1:0:0:0: [sdb] Mode Sense: 00 3a 00 00
sd 1:0:0:0: [sdb] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 1:0:0:0: [sdb] 398297088 512-byte hardware sectors (203928 MB)
sd 1:0:0:0: [sdb] Write Protect is off
sd 1:0:0:0: [sdb] Mode Sense: 00 3a 00 00
sd 1:0:0:0: [sdb] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sdb: sdb1 sdb2
sd 1:0:0:0: [sdb] Attached SCSI disk
scsi 2:0:0:0: Direct-Access ATA WDC WD1600JS-00N 10.0 PQ: 0 ANSI: 5
sd 2:0:0:0: [sdc] 312581808 512-byte hardware sectors (160042 MB)
sd 2:0:0:0: [sdc] Write Protect is off
sd 2:0:0:0: [sdc] Mode Sense: 00 3a 00 00
sd 2:0:0:0: [sdc] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 2:0:0:0: [sdc] 312581808 512-byte hardware sectors (160042 MB)
sd 2:0:0:0: [sdc] Write Protect is off
sd 2:0:0:0: [sdc] Mode Sense: 00 3a 00 00
sd 2:0:0:0: [sdc] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sdc: sdc1 sdc2 sdc3
sd 2:0:0:0: [sdc] Attached SCSI disk
Waiting for driver initialization.
Creating root device.
Mounting root filesystem.
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
Setting up other filesystems.
Setting up new root fs
no fstab.sys, mounting internal defaults
Switching to new root and running init.
unmounting old /dev
unmounting old /proc
unmounting old /sys
INIT: version 2.86 booting
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
Welcome to CentOS release 5 (Final)
Press 'I' to enter interactive startup.
Setting clock (utc): Sat May 26 18:48:54 EDT 2007 [ OK ]
Starting udev: parport_pc: VIA 686A/8231 detected
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

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```
parport_pc: probing current configuration
parport_pc: Current parallel port base: 0x378
parport0: PC-style at 0x378 (0x778), irq 7, using FIFO [PCSPP,TRISTATE,COMPAT,ECP]
parport_pc: VIA parallel port: io=0x378, irq=7
PCI: Enabling device 0000:00:0c.0 (0014 -> 0017)
ACPI: PCI Interrupt 0000:00:0c.0[A] -> GSI 16 (level, low) -> IRQ 18
3c59x: Donald Becker and others.
0000:00:0c.0: 3Com PCI 3cSOHO100-TX Hurricane at f8810000.
Intel(R) PRO/1000 Network Driver - version 7.3.20-k2
Copyright (c) 1999-2006 Intel Corporation.
ACPI: PCI Interrupt 0000:00:0b.0[A] -> GSI 17 (level, low) -> IRQ 19
e1000: 0000:00:0b.0: e1000_probe: (PCI:33MHz:32-bit) 00:0e:0c:6c:66:b3
sd 0:0:0:0: Attached scsi generic sg0 type 0
sd 1:0:0:0: Attached scsi generic sg1 type 0
sd 2:0:0:0: Attached scsi generic sg2 type 0
e1000: eth1: e1000_probe: Intel(R) PRO/1000 Network Connection
typhoon.c: version 1.5.8 (06/11/09)
PCI: Enabling device 0000:00:0d.0 (0014 -> 0017)
ACPI: PCI Interrupt 0000:00:0d.0[A] -> GSI 19 (level, low) -> IRQ 16
WARNING: at drivers/ata/sata_mv.c:1287 mv_qc_issue()
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c0186636>] blk_run_queue+0x37/0x63
[<f883aac8>] scsi_next_command+0x25/0x2f [scsi_mod]
[<f883ac7f>] scsi_end_request+0x9e/0xa8 [scsi_mod]
[<f883adc2>] scsi_io_completion+0xfc/0x318 [scsi_mod]
[<f8874bbb>] mv_interrupt+0x648/0x6d6 [sata_mv]
[<f881ee88>] sd_rw_intr+0x151/0x175 [sd_mod]
[<f883b475>] scsi_softirq_done+0x20/0xc7 [scsi_mod]
[<f883734c>] scsi_finish_command+0x3c/0x40 [scsi_mod]
[<c0186d2d>] blk_done_softirq+0x44/0x4f
[<c011ac32>] __do_softirq+0x5d/0xc1
[<c011acc8>] do_softirq+0x32/0x36
[<c010495a>] do_IRQ+0x5a/0x70
[<c0102ebf>] common_interrupt+0x23/0x28
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
=====
WARNING: at drivers/ata/sata_mv.c:1287 mv_qc_issue()
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c0186636>] blk_run_queue+0x37/0x63
[<f883aac8>] scsi_next_command+0x25/0x2f [scsi_mod]
[<f883ac7f>] scsi_end_request+0x9e/0xa8 [scsi_mod]
[<f883adc2>] scsi_io_completion+0xfc/0x318 [scsi_mod]
[<f8874bbb>] mv_interrupt+0x648/0x6d6 [sata_mv]
[<c0129b50>] clocksource_get_next+0x39/0x3f
[<f881ee88>] sd_rw_intr+0x151/0x175 [sd_mod]
[<f883b475>] scsi_softirq_done+0x20/0xc7 [scsi_mod]
[<f883734c>] scsi_finish_command+0x3c/0x40 [scsi_mod]
[<c0186d2d>] blk_done_softirq+0x44/0x4f
[<c011ac32>] __do_softirq+0x5d/0xc1
[<c011acc8>] do_softirq+0x32/0x36
[<c010495a>] do_IRQ+0x5a/0x70
[<c010c8f5>] smp_apic_timer_interrupt+0x74/0x80
[<c0102ebf>] common_interrupt+0x23/0x28
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
```

=====  
WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()

```
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c0186636>] blk_run_queue+0x37/0x63
[<f883aac8>] scsi_next_command+0x25/0x2f [scsi_mod]
[<f883ac7f>] scsi_end_request+0x9e/0xa8 [scsi_mod]
[<f883adc2>] scsi_io_completion+0xfc/0x318 [scsi_mod]
[<f8874bbb>] mv_interrupt+0x648/0x6d6 [sata_mv]
[<c0127b94>] hrtimer_wakeup+0x15/0x18
[<f881ee88>] sd_rw_intr+0x151/0x175 [sd_mod]
[<f883b475>] scsi_softirq_done+0x20/0xc7 [scsi_mod]
[<f883734c>] scsi_finish_command+0x3c/0x40 [scsi_mod]
[<c0186d2d>] blk_done_softirq+0x44/0x4f
[<c011ac32>] __do_softirq+0x5d/0xc1
[<c011acc8>] do_softirq+0x32/0x36
[<c010495a>] do_IRQ+0x5a/0x70
[<c010c8f5>] smp_apic_timer_interrupt+0x74/0x80
[<c0102ebf>] common_interrupt+0x23/0x28
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
```

=====  
WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c01862ca>] blk_remove_plug+0x4f/0x5b
[<c01862f3>] __generic_unplug_device+0x1d/0x1f
[<c0183c58>] elv_insert+0xa6/0x146
[<c011daf1>] __mod_timer+0x8e/0x98
[<c0187309>] __make_request+0x32b/0x441
[<c011af67>] tasklet_action+0x46/0x90
[<c0185633>] generic_make_request+0x18a/0x1b8
[<c01875f1>] submit_bio+0xb4/0xba
[<c0136cd5>] mempool_alloc+0x1c/0xba
[<c01699c7>] bio_alloc_bioset+0x9b/0xf3
[<c0166ec1>] submit_bh+0xbc/0xd7
[<c016925d>] block_read_full_page+0x263/0x274
[<c016b4ad>] blkdev_get_block+0x0/0x34
[<c0134957>] add_to_page_cache+0x67/0x77
[<c0139cd7>] __do_page_cache_readahead+0x17a/0x1cf
[<c015b41c>] __d_lookup+0x96/0xd5
[<c0139d78>] blockable_page_cache_readahead+0x4c/0x9f
[<c0139f96>] page_cache_readahead+0x132/0x1a4
[<c0134ed2>] do_generic_mapping_read+0x14d/0x457
[<c0136b67>] generic_file_aio_read+0x149/0x16e
[<c013458d>] file_read_actor+0x0/0xca
[<c014d2bd>] do_sync_read+0xc7/0x10a
[<c01385bc>] __alloc_pages+0x52/0x286
[<c01259b9>] autoremove_wake_function+0x0/0x35
[<c016a810>] block_llseek+0xad/0xb9
[<c014d1f6>] do_sync_read+0x0/0x10a
[<c014da20>] vfs_read+0x88/0x10a
[<c014de1e>] sys_read+0x41/0x67
[<c0102524>] syscall_call+0x7/0xb
```

=====

WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()

```
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
[<c01862ca>] blk_remove_plug+0x4f/0x5b
[<c01862f3>] __generic_unplug_device+0x1d/0x1f
[<c0183c58>] elv_insert+0xa6/0x146
[<c011daf1>] __mod_timer+0x8e/0x98
[<c0187309>] __make_request+0x32b/0x441
[<c015a9f8>] dput+0x15/0xda
[<c0185633>] generic_make_request+0x18a/0x1b8
[<c014a7ce>] cache_alloc_refill+0x58/0x43c
[<c01875f1>] submit_bio+0xb4/0xba
[<c0136cd5>] mempool_alloc+0x1c/0xba
[<c01699c7>] bio_alloc_bioset+0x9b/0xf3
[<c0166ec1>] submit_bh+0xbc/0xd7
[<c016925d>] block_read_full_page+0x263/0x274
[<c016b4ad>] blkdev_get_block+0x0/0x34
[<c0134957>] add_to_page_cache+0x67/0x77
[<c0139cd7>] __do_page_cache_readahead+0x17a/0x1cf
[<c011014d>] do_page_fault+0x0/0x52b
[<c0139d78>] blockable_page_cache_readahead+0x4c/0x9f
[<c0139f96>] page_cache_readahead+0x132/0x1a4
[<c0134ed2>] do_generic_mapping_read+0x14d/0x457
[<c0136b67>] generic_file_aio_read+0x149/0x16e
[<c013458d>] file_read_actor+0x0/0xca
[<c014d2bd>] do_sync_read+0xc7/0x10a
[<c01259b9>] autoremove_wake_function+0x0/0x35
[<c0127cf6>] hrtimer_run_queues+0xc6/0x147
[<c016a810>] block_llseek+0xad/0xb9
[<c014d1f6>] do_sync_read+0x0/0x10a
[<c014da20>] vfs_read+0x88/0x10a
[<c014de1e>] sys_read+0x41/0x67
[<c0102524>] syscall_call+0x7/0xb
```

=====

WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

```
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]
[<c01325b6>] handle_IRQ_event+0x1a/0x3f
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4
[<c0104955>] do_IRQ+0x55/0x70
[<c0102ebf>] common_interrupt+0x23/0x28
[<c011ac29>] __do_softirq+0x54/0xc1
[<c011acc8>] do_softirq+0x32/0x36
[<c010c8f5>] smp_apic_timer_interrupt+0x74/0x80
[<c0102f7c>] apic_timer_interrupt+0x28/0x30
[<c025def0>] _spin_unlock_irqrestore+0x5/0x6
[<f88377a4>] scsi_dispatch_cmd+0x191/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c01862ca>] blk_remove_plug+0x4f/0x5b
[<c01862f3>] __generic_unplug_device+0x1d/0x1f
[<c0183c58>] elv_insert+0xa6/0x146
[<c011daf1>] __mod_timer+0x8e/0x98
[<c0187309>] __make_request+0x32b/0x441
[<c015a9f8>] dput+0x15/0xda
[<c0185633>] generic_make_request+0x18a/0x1b8
```

[<c014a7ce>] cache\_alloc\_refill+0x58/0x43c  
[<c01875f1>] submit\_bio+0xb4/0xba  
[<c0136cd5>] mempool\_alloc+0x1c/0xba  
[<c01699c7>] bio\_alloc\_bioset+0x9b/0xf3  
[<c0166ec1>] submit\_bh+0xbc/0xd7  
[<c016925d>] block\_read\_full\_page+0x263/0x274  
[<c016b4ad>] blkdev\_get\_block+0x0/0x34  
[<c0134957>] add\_to\_page\_cache+0x67/0x77  
[<c0139cd7>] \_\_do\_page\_cache\_readahead+0x17a/0x1cf  
[<c011014d>] do\_page\_fault+0x0/0x52b  
[<c0139d78>] blockable\_page\_cache\_readahead+0x4c/0x9f  
ACPI: PCI interrupt for device 0000:00:0d.0 disabled  
[<c0139f96>] page\_cache\_readahead+0x132/0x1a4  
[<c0134ed2>] do\_generic\_mapping\_read+0x14d/0x457  
[<c0136b67>] generic\_file\_aio\_read+0x149/0x16e  
[<c013458d>] file\_read\_actor+0x0/0xca  
eth2: 3Com Typhoon2 (3C990B-FX-97) at MMIO 0xe4800000, 00:0a:5e:1b:95:7b  
eth2: Typhoon 1.1+ Sleep Image version 03.001.007 03:11:11 07/23/01 0000156  
[<c014d2bd>] do\_sync\_read+0xc7/0x10a  
[<c01259b9>] autoremove\_wake\_function+0x0/0x35  
[<c0127cf6>] hrtimer\_run\_queues+0xc6/0x147  
[<c016a810>] block\_llseek+0xad/0xb9  
[<c014d1f6>] do\_sync\_read+0x0/0x10a  
[<c014da20>] vfs\_read+0x88/0x10a  
[<c014de1e>] sys\_read+0x41/0x67  
[<c0102524>] syscall\_call+0x7/0xb

=====  
WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

[<f8874806>] mv\_interrupt+0x293/0x6d6 [sata\_mv]  
[<c0112d88>] run\_rebalance\_domains+0x7b/0x3a3  
[<c01325b6>] handle\_IRQ\_event+0x1a/0x3f  
[<c01337aa>] handle\_fasteoi\_irq+0x71/0xa4  
[<c0104955>] do\_IRQ+0x55/0x70  
[<c010c8f5>] smp\_apic\_timer\_interrupt+0x74/0x80  
[<c0102ebf>] common\_interrupt+0x23/0x28  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0

=====  
WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

[<f8874806>] mv\_interrupt+0x293/0x6d6 [sata\_mv]  
[<c018fa6c>] prio\_tree\_insert+0x11e/0x1e3  
[<c01325b6>] handle\_IRQ\_event+0x1a/0x3f  
[<c01337aa>] handle\_fasteoi\_irq+0x71/0xa4  
[<c0104955>] do\_IRQ+0x55/0x70  
[<c0102ebf>] common\_interrupt+0x23/0x28  
[<c014007b>] remap\_pfn\_range+0x48/0x15d  
[<c013ecd8>] \_\_handle\_mm\_fault+0x1be/0x766  
[<c01419ac>] vma\_link+0xab/0xc7  
[<c011035a>] do\_page\_fault+0x20d/0x52b  
[<c011014d>] do\_page\_fault+0x0/0x52b  
[<c025e0a2>] error\_code+0x72/0x78

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
WARNING: at drivers/ata/sata_mv.c:1333 mv_get_crpb_status()
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]
[<c01325b6>] handle_IRQ_event+0x1a/0x3f
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4
[<c0104955>] do_IRQ+0x55/0x70
[<c0137ce1>] __rmqueue+0x71/0xbf
[<c0102ebf>] common_interrupt+0x23/0x28
[<c014a76f>] kmem_cache_alloc+0x30/0x37
[<c0114d3c>] dup_fd+0x22/0x257
[<c01385bc>] __alloc_pages+0x52/0x286
[<c01290f3>] getnstimeofday+0x30/0xb9
[<c0114fab>] copy_files+0x3a/0x51
[<c011553e>] copy_process+0x39c/0xf9d
[<c0116368>] do_fork+0x9a/0x1c2
[<c0152aaf>] do_pipe+0x53/0x98
[<c0100a05>] sys_clone+0x36/0x3b
[<c01024ae>] sysenter_past_esp+0x5f/0x85
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
=====
```

```
WARNING: at drivers/ata/sata_mv.c:1333 mv_get_crpb_status()
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]
[<c01325b6>] handle_IRQ_event+0x1a/0x3f
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4
[<c0104955>] do_IRQ+0x55/0x70
[<c014d2bd>] do_sync_read+0xc7/0x10a
[<c0102ebf>] common_interrupt+0x23/0x28
[<c014007b>] remap_pfn_range+0x48/0x15d
[<c0155917>] __path_lookup_intent_open+0x1d/0x75
[<c01559e3>] path_lookup_open+0x20/0x25
[<c0150722>] open_exec+0x25/0xa5
[<c014da92>] vfs_read+0xfa/0x10a
[<c0150626>] kernel_read+0x37/0x48
[<c0172148>] load_elf_binary+0x277/0x1477
[<c01385bc>] __alloc_pages+0x52/0x286
[<c01504ba>] search_binary_handler+0x61/0x169
[<c0151a85>] do_execve+0x140/0x1af
[<c0100eae>] sys_execve+0x2f/0x7b
[<c01024ae>] sysenter_past_esp+0x5f/0x85
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
=====
```

```
WARNING: at drivers/ata/sata_mv.c:1287 mv_qc_issue()
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
```

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

[<c01862ca>] blk\_remove\_plug+0x4f/0x5b  
[<c013476d>] sync\_page+0x0/0x40  
[<c01862f3>] \_\_generic\_unplug\_device+0x1d/0x1f  
[<c0186f76>] generic\_unplug\_device+0x15/0x21  
[<c0184507>] blk\_backing\_dev\_unplug+0xc/0xd  
[<c0166ac2>] block\_sync\_page+0x36/0x37  
[<c01347a5>] sync\_page+0x38/0x40  
[<c025d269>] \_\_wait\_on\_bit\_lock+0x2a/0x52  
[<c013475f>] \_\_lock\_page+0x58/0x5e  
[<c01259ee>] wake\_bit\_function+0x0/0x3c  
[<c0134f7b>] do\_generic\_mapping\_read+0x1f6/0x457  
[<c0136b67>] generic\_file\_aio\_read+0x149/0x16e  
[<c013458d>] file\_read\_actor+0x0/0xca  
[<c014d2bd>] do\_sync\_read+0xc7/0x10a  
[<c01385bc>] \_\_alloc\_pages+0x52/0x286  
[<c01259b9>] autoremove\_wake\_function+0x0/0x35  
[<c016a810>] block\_llseek+0xad/0xb9  
[<c014d1f6>] do\_sync\_read+0x0/0x10a  
[<c014da20>] vfs\_read+0x88/0x10a  
[<c014de1e>] sys\_read+0x41/0x67  
[<c0102524>] syscall\_call+0x7/0xb  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0

=====

WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()  
[<f88744ff>] mv\_qc\_issue+0x99/0x10d [sata\_mv]  
[<f889747f>] ata\_qc\_issue+0x429/0x47f [libata]  
[<f8837469>] scsi\_done+0x0/0x16 [scsi\_mod]  
[<f889c0fb>] ata\_scsi\_translate+0xfa/0x155 [libata]  
[<c011d9e9>] lock\_timer\_base+0x19/0x35  
[<f8837469>] scsi\_done+0x0/0x16 [scsi\_mod]  
[<f889df51>] ata\_scsi\_queuecmd+0x117/0x134 [libata]  
[<f889bdfb>] ata\_scsi\_rw\_xlat+0x0/0x1e0 [libata]  
[<f8837798>] scsi\_dispatch\_cmd+0x185/0x1c9 [scsi\_mod]  
[<f883bcc9>] scsi\_request\_fn+0x20d/0x2c2 [scsi\_mod]  
[<c01862ca>] blk\_remove\_plug+0x4f/0x5b  
[<c01862f3>] \_\_generic\_unplug\_device+0x1d/0x1f  
[<c0183c58>] elv\_insert+0xa6/0x146  
[<c011daf1>] \_\_mod\_timer+0x8e/0x98  
[<c0187309>] \_\_make\_request+0x32b/0x441  
[<c01e4623>] ide\_end\_request+0xbe/0xc6  
[<c0185633>] generic\_make\_request+0x18a/0x1b8  
[<c01e51ac>] ide\_intr+0x1b1/0x1be  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0  
[<c01875f1>] submit\_bio+0xb4/0xba  
[<c0136cd5>] mempool\_alloc+0x1c/0xba  
[<c01699c7>] bio\_alloc\_bioset+0x9b/0xf3  
[<c0166ec1>] submit\_bh+0xbc/0xd7  
[<c016925d>] block\_read\_full\_page+0x263/0x274  
[<c016b4ad>] blkdev\_get\_block+0x0/0x34  
[<c0139cd7>] \_\_do\_page\_cache\_readahead+0x17a/0x1cf

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

[<c01862ca>] blk\_remove\_plug+0x4f/0x5b  
[<c0139d78>] blockable\_page\_cache\_readahead+0x4c/0x9f  
[<c0139f96>] page\_cache\_readahead+0x132/0x1a4  
[<c0134ed2>] do\_generic\_mapping\_read+0x14d/0x457  
[<c0136b67>] generic\_file\_aio\_read+0x149/0x16e  
[<c013458d>] file\_read\_actor+0x0/0xca  
[<c014d2bd>] do\_sync\_read+0xc7/0x10a  
[<c01385bc>] \_\_alloc\_pages+0x52/0x286  
[<c01259b9>] autoremove\_wake\_function+0x0/0x35  
[<c016a810>] block\_llseek+0xad/0xb9  
[<c014d1f6>] do\_sync\_read+0x0/0x10a  
[<c014da20>] vfs\_read+0x88/0x10a  
[<c014de1e>] sys\_read+0x41/0x67  
[<c0102524>] syscall\_call+0x7/0xb  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0

=====

WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()  
[<f88744ff>] mv\_qc\_issue+0x99/0x10d [sata\_mv]  
[<f889747f>] ata\_qc\_issue+0x429/0x47f [libata]  
[<f8837469>] scsi\_done+0x0/0x16 [scsi\_mod]  
[<f889c0fb>] ata\_scsi\_translate+0xfa/0x155 [libata]  
[<c011d9e9>] lock\_timer\_base+0x19/0x35  
[<f8837469>] scsi\_done+0x0/0x16 [scsi\_mod]  
[<f889df51>] ata\_scsi\_queuecmd+0x117/0x134 [libata]  
[<f889bdfb>] ata\_scsi\_rw\_xlat+0x0/0x1e0 [libata]  
[<f8837798>] scsi\_dispatch\_cmd+0x185/0x1c9 [scsi\_mod]  
[<f883bcc9>] scsi\_request\_fn+0x20d/0x2c2 [scsi\_mod]  
[<c018642d>] blk\_start\_queueing+0x11/0x19  
[<c0183c58>] elv\_insert+0xa6/0x146  
[<c0187309>] \_\_make\_request+0x32b/0x441  
[<c0185633>] generic\_make\_request+0x18a/0x1b8  
[<c01e51ac>] ide\_intr+0x1b1/0x1be  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0  
[<c0250000>] inet\_diag\_rcv\_msg+0x32d/0x4c0  
[<c01875f1>] submit\_bio+0xb4/0xba  
[<c0136cd5>] mempool\_alloc+0x1c/0xba  
[<c01699c7>] bio\_alloc\_bioset+0x9b/0xf3  
[<c0166ec1>] submit\_bh+0xbc/0xd7  
[<c016925d>] block\_read\_full\_page+0x263/0x274  
[<c016b4ad>] blkdev\_get\_block+0x0/0x34  
[<c0139cd7>] \_\_do\_page\_cache\_readahead+0x17a/0x1cf  
[<c01862ca>] blk\_remove\_plug+0x4f/0x5b  
[<c0139d78>] blockable\_page\_cache\_readahead+0x4c/0x9f  
[<c0139f96>] page\_cache\_readahead+0x132/0x1a4  
[<c0134ed2>] do\_generic\_mapping\_read+0x14d/0x457  
[<c0136b67>] generic\_file\_aio\_read+0x149/0x16e  
[<c013458d>] file\_read\_actor+0x0/0xca  
[<c014d2bd>] do\_sync\_read+0xc7/0x10a  
[<c01385bc>] \_\_alloc\_pages+0x52/0x286  
[<c01259b9>] autoremove\_wake\_function+0x0/0x35  
[<c016a810>] block\_llseek+0xad/0xb9

Re: [PATCH, RFT, v4] sata\_mv: convert to new EH

```
[<c014d1f6>] do_sync_read+0x0/0x10a  
[<c014da20>] vfs_read+0x88/0x10a  
[<c014de1e>] sys_read+0x41/0x67  
[<c0102524>] syscall_call+0x7/0xb  
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0  
=====
```

WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

```
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]  
[<c014beb8>] get_unused_fd+0x4a/0xa9  
[<c01325b6>] handle_IRQ_event+0x1a/0x3f  
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4  
[<c0104955>] do_IRQ+0x55/0x70  
[<c0102ebf>] common_interrupt+0x23/0x28  
[<c013eddb>] __handle_mm_fault+0x2c1/0x766  
[<c011035a>] do_page_fault+0x20d/0x52b  
[<c014173b>] do_munmap+0x193/0x1ac  
[<c011014d>] do_page_fault+0x0/0x52b  
[<c025e0a2>] error_code+0x72/0x78  
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0  
=====
```

WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()

```
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]  
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]  
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]  
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]  
[<c011d9e9>] lock_timer_base+0x19/0x35  
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]  
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]  
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]  
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]  
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]  
[<c0186636>] blk_run_queue+0x37/0x63  
[<f883aac8>] scsi_next_command+0x25/0x2f [scsi_mod]  
[<f883ac7f>] scsi_end_request+0x9e/0xa8 [scsi_mod]  
[<f883adc2>] scsi_io_completion+0xfc/0x318 [scsi_mod]  
[<f8874bbb>] mv_interrupt+0x648/0x6d6 [sata_mv]  
[<f881ee88>] sd_rw_intr+0x151/0x175 [sd_mod]  
[<f883b475>] scsi_softirq_done+0x20/0xc7 [scsi_mod]  
[<f883734c>] scsi_finish_command+0x3c/0x40 [scsi_mod]  
[<c0186d2d>] blk_done_softirq+0x44/0x4f  
[<c011ac32>] __do_softirq+0x5d/0xc1  
[<c011acc8>] do_softirq+0x32/0x36  
[<c010495a>] do_IRQ+0x5a/0x70  
[<c0102ebf>] common_interrupt+0x23/0x28  
[<c013eddb>] __handle_mm_fault+0x2c1/0x766  
[<c011035a>] do_page_fault+0x20d/0x52b  
[<c014173b>] do_munmap+0x193/0x1ac  
[<c011014d>] do_page_fault+0x0/0x52b  
[<c025e0a2>] error_code+0x72/0x78  
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0  
=====
```

```
WARNING: at drivers/ata/sata_mv.c:1333 mv_get_crpb_status()
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]
[<c01325b6>] handle_IRQ_event+0x1a/0x3f
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4
[<c0104955>] do_IRQ+0x55/0x70
[<c010c8f5>] smp_apic_timer_interrupt+0x74/0x80
[<c0102ebf>] common_interrupt+0x23/0x28
[<c01013ef>] default_idle+0x0/0x3e
[<c010141b>] default_idle+0x2c/0x3e
[<c0100b81>] cpu_idle+0x5a/0x6f
[<c02efbd3>] start_kernel+0x2e8/0x2f0
[<c02ef440>] unknown_bootoption+0x0/0x202
```

=====

```
WARNING: at drivers/ata/sata_mv.c:1287 mv_qc_issue()
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0 [c014de1e] sys_read+0x41/0x67
[<c0102524>] syscall_call+0x7/0xb
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
```

=====

```
WARNING: at drivers/ata/sata_mv.c:1287 mv_qc_issue()
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c01862ca>] blk_remove_plug+0x4f/0x5b
[<c01862f3>] __generic_unplug_device+0x1d/0x1f
[<c0183c58>] elv_insert+0xa6/0x146
[<c0187309>] __make_request+0x32b/0x441
[<c015a9f8>] dput+0x15/0xda
[<c0185633>] generic_make_request+0x18a/0x1b8
[<c015e813>] mntput_no_expire+0x11/0x56
[<c01875f1>] submit_bio+0xb4/0xba
[<c0136cd5>] mempool_alloc+0x1c/0xba
[<c01699c7>] bio_alloc_bioset+0x9b/0xf3
[<c0166ec1>] submit_bh+0xbc/0xd7
[<c016925d>] block_read_full_page+0x263/0x274
[<c016b4ad>] blkdev_get_block+0x0/0x34
[<c0134957>] add_to_page_cache+0x67/0x77
[<c0139cd7>] __do_page_cache_readahead+0x17a/0x1cf
[<c01862ca>] blk_remove_plug+0x4f/0x5b
```

```
[<c0139d78>] blockable_page_cache_readahead+0x4c/0x9f
[<c0139f96>] page_cache_readahead+0x132/0x1a4
[<c0134ed2>] do_generic_mapping_read+0x14d/0x457
[<c0136b67>] generic_file_aio_read+0x149/0x16e
[<c013458d>] file_read_actor+0x0/0xca
[<c014d2bd>] do_sync_read+0xc7/0x10a
[<c01385bc>] __alloc_pages+0x52/0x286
[<c01259b9>] autoremove_wake_function+0x0/0x35
[<c016a810>] block_llseek+0xad/0xb9
[<c014d1f6>] do_sync_read+0x0/0x10a
[<c014da20>] vfs_read+0x88/0x10a
[<c014de1e>] sys_read+0x41/0x67
[<c0102524>] syscall_call+0x7/0xb
[<c0250000>] inet_diag_rcv_msg+0x32d/0x4c0
```

=====

WARNING: at drivers/ata/sata\_mv.c:1333 mv\_get\_crpb\_status()

```
[<f8874806>] mv_interrupt+0x293/0x6d6 [sata_mv]
[<c0112e28>] run_rebalance_domains+0x11b/0x3a3
[<c01325b6>] handle_IRQ_event+0x1a/0x3f
[<c01337aa>] handle_fasteoi_irq+0x71/0xa4
[<c0104955>] do_IRQ+0x55/0x70
[<c010c8f5>] smp_apic_timer_interrupt+0x74/0x80
[<c0102ebf>] common_interrupt+0x23/0x28
[<c01013ef>] default_idle+0x0/0x3e
[<c010141b>] default_idle+0x2c/0x3e
[<c0100b81>] cpu_idle+0x5a/0x6f
[<c02efbd3>] start_kernel+0x2e8/0x2f0
[<c02ef440>] unknown_bootoption+0x0/0x202
```

=====

WARNING: at drivers/ata/sata\_mv.c:1287 mv\_qc\_issue()

```
[<f88744ff>] mv_qc_issue+0x99/0x10d [sata_mv]
[<f889747f>] ata_qc_issue+0x429/0x47f [libata]
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889c0fb>] ata_scsi_translate+0xfa/0x155 [libata]
[<c011d9e9>] lock_timer_base+0x19/0x35
[<f8837469>] scsi_done+0x0/0x16 [scsi_mod]
[<f889df51>] ata_scsi_queuecmd+0x117/0x134 [libata]
[<f889bdfb>] ata_scsi_rw_xlat+0x0/0x1e0 [libata]
[<f8837798>] scsi_dispatch_cmd+0x185/0x1c9 [scsi_mod]
[<f883bcc9>] scsi_request_fn+0x20d/0x2c2 [scsi_mod]
[<c0186636>] blk_run_queue+0x37/0x63
[<f883aac8>] scsi_next_command+0x25/0x2f [scsi_mod]
[<f883ac7f>] scsi_end_request+0x9e/0xa8 [scsi_mod]
[<f883adc2>] scsi_io_completion+0xfc/0x318 [scsi_mod]
[<f881ee88>] sd_rw_intr+0x151/0x175 [sd_mod]
[<f883b475>] scsi_softirq_done+0x20/0xc7 [scsi_mod]
[<f883734
```