

## Re: RAID and NFS exports (Possible Data Corruption)

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2003-07/0260.html>

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**Date:** 07/15/03

Date: Tue, 15 Jul 2003 13:59:08 -0700  
To: David Malone <[dwmalone@maths.tcd.ie](mailto:dwmalone@maths.tcd.ie)>

Thanks for the reply.

>> *ad4: hard error reading fsbn 242727552*  
>  
> *The error means that that the disk said that there was an error*  
> *trying to read this block. You say that when you rebooted that the*  
> *controller said a disk had gone bad, so this would sort of confirm*  
> *this. (I could believe that restarting mountd might upset raid stuff*  
> *if there were a kernel bug, but it seems very unlikely it could*  
> *cause a disk to go bad.)*

The full error was something like this on *\_both\_* of the identical systems, even *\_before\_* the reboot. After this message we could not read/write/fsck /dev/ar0

```
ad7: hard error reading fsbn 291786506 of 0-127 (ad7 bn 291786506; cn
289470 tn 11 sn 53) trying PIO
mode
ad7: DMA problem fallback to PIO mode
ad7: DMA problem fallback to PIO mode
ad7: DMA problem fallback to PIO mode
ad7: DMA problem fallback to PIO mode
ad7: DMA problem fallback to PIO mode
ad7: hard error reading fsbn 291786586 of 0-127 (ad7 bn 291786586; cn
289470 tn 13 sn 7) status=59 e
rror=40
ar0: ERROR - array broken
```

There was also a variety of messages like these:

```
Jul 14 02:55:39 thorimage1 /kernel: ad7: hard error reading fsbn
291786586 of 0-127 (ad7 bn 291786586; cn 289470 tn 13 sn 7) status=59
error=40
```

where ad7: .... included any of the 6 devices, somewhat randomly, in the array.

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- >
- > *My best guess would be that you have a bad batch of disks that*
- > *happen to have failed in similar ways. It is possible that restarting*
- > *mountd uncovered the errors, 'cos I think mountd internally does*
- > *a remount of the filesystem in question and that might cause a chunk*
- > *of stuff to be flushed out on to the disk, highlighting an error.*
- >
- > *(I had a bunch of the IBM "deathstar" disks fail on me within the*
- > *space of a week or so, after they'd been in use for about six*
- > *months.*

That certainly sounds reasonable that this problem had just manifested itself by restartin