

## Re: [PATCH] drivers/scsi/sd.c: fix uninitialized variable in handling medium errors

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- *From:* Mark Lord <mlord@xxxxxxxx>
  - *Date:* Thu, 27 Apr 2006 12:03:10 -0400
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Andrew Morton wrote:

Mark Lord <lkml@xxxxxx> wrote:

That's if we think `-stable` needs this fixed.

Let's say a bunch of read bio's get coalesced into a single 200+ sector request. This then fails on one single bad sector out of the 200+. Without the patch, there is a very good chance that `sd.c` will simply fail the entire request, all 200+ sectors.

With the patch, it will fail the first block, and then retry the remaining blocks. And repeat this until something works, or until everything has failed one by one.

Yowch. I have the feeling that this'll take our EIO-handling time from far-too-long to far-too-long\*200.

I am still traumatised by my recent ten-minute wait for a dodgy DVD to become ejectable.

I don't think `-stable` needs this, personally.

Perhaps, perhaps not. The current behaviour is semi *\*random\**, though. Sometimes it may just fail the entire request (wrong!), sometimes it may do the (almost as wrong) fail a block at a time from the beginning, until the bad sector is passed, and then succeed on the remainder.

Ugh.

What I need to have happen when a request is failed due to bad-media, is have it split the request into a sequence of single-block requests that are passed to the LLD one at a time. The ones with real bad sectors will then be independently failed, and the rest will get done.

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Much better. Much more complex.

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Mark Lord  
Real-Time Remedies Inc.  
mlord@xxxxxxxx

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