

Re: [2.4 PATCH] Don't panic on IDE DMA errors

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg08599.html>

- *From:* Andre Hedrick <andre@xxxxxxxxxxxxxx>
 - *Date:* Sat, 31 Dec 2005 02:01:24 -0800 (PST)
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What was the panic base on error?

It should have aborted the request and block resends it.

However, the logic seems sane and if the request is lost on error this would corrupt if it did not panic.

Is there a clear way to reproduce this in a controlled manner?

IE the goal would be to test data integrity on the events.

Cheers,

Andre Hedrick
LAD Storage Consulting Group

On Mon, 28 Nov 2005, Marcelo Tosatti wrote:

```
>
>
> diff-tree e8f3e8dd41308fb66c026f51bb86b23205ad48c1 (from
0b85d6aa75faefe28d90362424035ef7b349974c)
> Author: Chris Ross <lak1646@xxxxxxxxxxxxxx>
> Date: Wed Nov 23 15:56:00 2005 +0000
>
> [PATCH] Don't panic on IDE DMA errors
>
> Kernel 2.4.32 and earlier can panic when trying to read a corrupted
> sector from an IDE disk.
>
> The function ide_dma_timeout_retry can end a request early by calling
> idedisk_error, but then goes on to use the request anyway causing a
> kernel panic due to a null pointer exception. This patch fixes that.
>
> diff --git a/drivers/ide/ide-io.c b/drivers/ide/ide-io.c
> index 3f6a0aa..6fc6f77 100644
> --- a/drivers/ide/ide-io.c
> +++ b/drivers/ide/ide-io.c
> @@ -899,11 +899,13 @@ static ide_startstop_t ide_dma_timeout_r
> rq = HWGROUP(drive)->rq;
```

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```
> HWGROUP(drive)->rq = NULL;
>
> - rq->errors = 0;
> - rq->sector = rq->bh->b_rsector;
> - rq->current_nr_sectors = rq->bh->b_size >> 9;
> - rq->hard_cur_sectors = rq->current_nr_sectors;
> - rq->buffer = rq->bh->b_data;
> + if (rq) {
> + rq->errors = 0;
> + rq->sector = rq->bh->b_rsector;
> + rq->current_nr_sectors = rq->bh->b_size >> 9;
> + rq->hard_cur_sectors = rq->current_nr_sectors;
> + rq->buffer = rq->bh->b_data;
> + }
>
> return ret;
> }
> -
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> the body of a message to majordomo@xxxxxxxxxxxxxxxxxxx
> More majordomo info at http://vger.kernel.org/majordomo-info.html
> Please read the FAQ at http://www.tux.org/lkml/
>
```

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