

Re: [PATCH 10/11] LED: Add IDE disk activity LED trigger

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg11516.html>

- *From:* Jens Axboe <axboe@xxxxxxx>
 - *Date:* Tue, 31 Jan 2006 21:29:45 +0100
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On Tue, Jan 31 2006, Bartlomiej Zolnierkiewicz wrote:

> Hi,

>

> On 1/31/06, Richard Purdie <rpurdie@xxxxxxxxxx> wrote:

>> Hi,

>>

>>> On Tue, 2006-01-31 at 15:46 +0100, Bartlomiej Zolnierkiewicz wrote:

>>>

>>> Why cannot existing block layer hook be used for this?

>>

>> The trigger is supposed to be reflecting actual hardware activity, not
>> block layer activity.

>

> Ben, code in pmac.c (+ block layer) seems to be doing something
> different then Kconfig help entry states ("Blink laptop LED on drive
> activity")?

I doubt it really matters a lot, since either the activity will be done right after (the LED will likely still be on), or the drive is already busy doing stuff (in which case the LED is on anyways). So while the trigger point might not be at the instant we start drive activity, it's really close.

You could move the block layer trigger from `add_request()` to `elevator.c:elv_next_request()` instead, right where it sets `REQ_STARTED` to improve the start trigger point. Since that can happen at irq time (whereas the `add_request()` cannot), it's likely more expensive.

The goal of the activity led for powerbook was not really to be 100% accurate, but be able to tell whether the drive was doing io or not. It's nice feedback to have for the user.

That said, the LED stuff should be able to handle pmac as well, so why not add it generically instead of clamping it into the ide layer in odd places?

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Jens Axboe

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• **References:**

- ◆ **[PATCH 10/11] LED: Add IDE disk activity LED trigger**
 ◇ From: Richard Purdie
 - ◆ **Re: [PATCH 10/11] LED: Add IDE disk activity LED trigger**
 ◇ From: Bartlomiej Zolnierkiewicz
 - ◆ **Re: [PATCH 10/11] LED: Add IDE disk activity LED trigger**
 ◇ From: Richard Purdie
 - ◆ **Re: [PATCH 10/11] LED: Add IDE disk activity LED trigger**
 ◇ From: Bartlomiej Zolnierkiewicz
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