

Re: hpt366-0.37.patch.bz2 K.O.

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-03/4872.html>

From: Andre Hedrick (andre_at_linux-ide.org)

Date: 03/19/04

Date: Fri, 19 Mar 2004 13:09:19 -0800 (PST)

To: linux-kernel@vger.kernel.org

Please go install a version 2 HPT372A/N and watch the kernel die, then install the patch and it works proper. Better yet rewind to 2.4.18 and it works correct unpatch.

The point is the current HPT372N detection code is so broad and a foul mess, it actually trashes a HPT372A ver 2 device, which by chance happens to be silkscreened with HPT372N. This is one of the reason I happen to get paid to fix things, is know the differences and where to parse against them.

There is a reason to have it EXPLODE early. Failure have proper timing parameters and continued execution has generally resulted in FS havoc. General file system corruption is bad. It is far better to BUG out and OOPS before reading or writing data, or is this point to subtle?

I now remember why I avoid LKML.

Gurr.....

Andre Hedrick
LAD Storage Consulting Group

On Fri, 19 Mar 2004, Andre Hedrick wrote:

>
> *So the point is that I know there will not be a version greater than two*
> *on this asic?*
>
> *I post fixes for problems people pay to have fixed.*
> *If there are other problems, you are free to fix it yourself.*
>
> *I have been doing this for only the past 6 years, there is just a tiny bit*
> *of insight I might have. Hey apply or not.*
>
> *Regards,*
>

> Andre Hedrick
> LAD Storage Consulting Group
>
> On Fri, 19 Mar 2004, Sergey Vlasov wrote:
>
>> On Fri, 19 Mar 2004 04:53:22 -0800 (PST) Andre Hedrick wrote:
>>
>>> <http://www.kernel.org/pub/linux/kernel/people/hedrick/ide-2.4.25/hpt366-0.37.patch.bz2>
>>>
>>> Fixes fifo dma data corruption on RocketRaid404
>>> Fixes native HPT372 detection/setup for HPT372/HPT372A/HPT372N
>>>
>>> HPT372N's previous code seems kooky, but then again do not have specific
>>> hardware rev in question.
>>
>> static void __init init_setup_hpt37x (struct pci_dev *dev, ide_pci_device_t *d)
>> {
>> + if (d->device == PCI_DEVICE_ID_TTI_HPT372) {
>> + unsigned int class_rev;
>> + static char *chipset_names[] = {"HPT372", "HPT372A", "HPT372N"};
>> +
>> + pci_read_config_dword(dev, PCI_CLASS_REVISION, &class_rev);
>> + class_rev &= 0xff;
>> + d->name = chipset_names[class_rev];
>> + }
>> +
>> ide_setup_pci_device(dev, d);
>> }
>>
>> This will blow up if a chip with the same PCI ID and a revision larger
>> than 2 ever appears.
>>
>> Also, hpt366_init_one() is __devinit, but it calls d->init_setup, and
>> all init_setup_*() functions are __init - does not look good. Hmm,
>> this is present in many drivers, also in 2.6.x... apparently this is
>> safe because such devices cannot be hotplugged.
>>
>
> -
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