

Re: RFC: outb 0x80 in inb_p, outb_p harmful on some modern AMD64 with MCP51 laptops

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-12/msg08878.html>

- *From:* Pavel Machek <pavel@xxxxxx>
 - *Date:* Thu, 27 Dec 2007 10:39:42 +0000
-

On Mon 2007-12-17 15:42:51, Ingo Molnar wrote:

* Pavel Machek <pavel@xxxxxx> wrote:

```
./char/epca.c
./char/sonypi.c
./scsi/megaraid.c
./ide/pci/serverworks.c
./ide/pci/cmd640.c
./input/mouse/pc110pad.c
```

You are missing some watchdogs at least ?

I snipped them, I only wanted to comment that pc110pad.c looks like legitimate use of outb_p().

since this code seems to run late during bootup (a mouse driver), could we replace this with udelay(2), and get rid of that outb_p()? I.e. via the patch below?

Yes, that should work. But I do not have pc110 to verify it.

Ingo

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Subject: x86: replace outb_p() with udelay(2) in drivers/input/mouse/pc110pad.c
From: Ingo Molnar <mingo@xxxxxxx>

replace outb_p() with udelay(2). This is a real ISA device so it likely needs this particular delay.

Re: RFC: outb 0x80 in inb_p, outb_p harmful on some modern AMD64 with MCP51 laptops

Signed-off-by: Ingo Molnar <mingo@xxxxxxx>

ACK.

```
int value = inb_p(pc110pad_io);
int handshake = inb_p(pc110pad_io + 2);

- outb_p(handshake | 1, pc110pad_io + 2);
- outb_p(handshake & ~1, pc110pad_io + 2);
+ outb(handshake | 1, pc110pad_io + 2);
+ udelay(2);
+ outb(handshake & ~1, pc110pad_io + 2);
+ udelay(2);
inb_p(0x64);
```

```
pc110pad_data[pc110pad_count++] = value;
```

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(english) <http://www.livejournal.com/~pavelmachek>

(cesky, pictures) <http://atrey.karlin.mff.cuni.cz/~pavel/picture/horses/blog.html>

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