

Re: Strange device init

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-02/1689.html>

From: Pierre Ossman (*drzeus-list_at_drzeus.cx*)

Date: 02/06/05

Date: Sun, 06 Feb 2005 12:40:59 +0100

To: Adam Belay <ambxl@neo.rr.com>

Adam Belay wrote:

>On Sat, Feb 05, 2005 at 06:10:02PM +0100, Pierre Ossman wrote:

>

>

>>I'm having problem with a card reader on a laptop (Acer Aspire 1501).

>>The device doesn't get its resources configured properly.

>>

>>The reader is connected to the LPC bus so there is no standardised way

>>to configure the device. On other laptops the configuration is done via

>>ACPI (_STA & co. in the DSDT). On this laptop these functions don't do a

>>damn thing.

>>In Windows this device gets configured through some other means. It's

>>not in the driver (I've disected it to confirm this). But under Linux

>>the device is left unconfigured.

>>

>>So my question is if anyone has any ideas on how this device gets

>>configured by Windows and possibly how we can get this to work on Linux.

>>

>>The reason this is an issue is that one cannot detect all the quirks of

>>the hardware so a PNP solution is preferred. In those cases the

>>manufacturer has chosen resources that work ok.

>>

>>For some context: I am the maintainer of the driver for this hardware. I

>>have a laptop where the DSDT properly sets up the hardware. The Acer

>>belongs to some of my users but they are not familiar with the kernel so

>>I'm trying to fix this for them.

>>

>>Rgds

>>Pierre

>>

>>

>

>So the device is not listed in the DSDT, or _SRS doesn't work? Does _STA

>succeed? Finally have you checked if PnPBIOS detects the device? Any

>additional information you could provide would be appreciated.

>

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The device is listed in the DSDT but the functions are empty. E.g. _SRS:

```
Method (_SRS, 1, NotSerialized)
{
}
```

_PRS and _CRS at least returns the proper resources that should be used.

PNPBIOS cannot be compiled in. This is a x86_64 machine and PNPBIOS is dependent on ISA. Are there any user-space tools that can do the same thing? Just to do some testing.

Rgds
Pierre

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