

Re: [ALSA STABLE 3/3] a few more -- unregister platform device again if probe was unsuccessful

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- *From:* Rene Herman <rene.herman@xxxxxxxxxxxxx>
 - *Date:* Thu, 13 Apr 2006 20:47:14 +0200
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Russell King wrote:

On Thu, Apr 13, 2006 at 06:17:49PM +0200, Rene Herman wrote:

Okay, thanks, that's relevant information. Please explain though what's incorrect about the fact that for these ISA devices on the plain old PC, with nothing other than the driver available to probe for them, just keeping them registered after failing a probe turns /sys/devices/platform into a view of "what drivers did we load".

If a driver for an ISA device only wants to register a device and driver if the hardware exists, it needs to handle behaviour itself and not force such behaviour on the upper layers (which is what you're arguing for.)

Nono, please note I'm arguing for nothing of the sort. The original patch to bus_add_device() to pass up the probe() return was submitted with just a "if I do this, things work as I expect. is it correct?" question attached. Given that everything uses that same code, it wasn't correct. What I am arguing for is that it would be good if the driver model provided me the _option_ to fail a registration if the driver tells it there are no devices. ie, the flag that I could set that would make the driver model interpret an ENODEV from probe() to really mean NODEV.

The current work-around of using drvdata() as a success flag is exactly what you say -- ALSA doing it all by itself. This thread specifically only started due to Ingo Oeser suggesting that work-around would go into platform_device_register_simple()...

M'kay. I believe there's one clean way out of this. We could add an "isa bus", where the _user_ would first need to setup the hardware from userspace by echoing values into sysfs. Say, something like:

Maybe this

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