

Re: two patches – request for comments

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-06/0550.html>

From: Russell King (rmk+lkml_at_arm.linux.org.uk)

Date: 06/02/04

Date: Wed, 2 Jun 2004 22:32:19 +0100

To: Greg KH <greg@kroah.com>

On Wed, Jun 02, 2004 at 10:15:42AM -0700, Greg KH wrote:

> *On Wed, Jun 02, 2004 at 01:00:36AM +0400, Andrew Zabolotny wrote:*

> >

> > *In theory, if we would use the standard power interface, it could use the
> > different levels of power saving, e.g. 0 – controller and LCD on, 1,2 – LCD
> > off, controller on, 3,4 – both off.*

>

> *Please use the standard power interface, and use the standard levels of
> power state. That's why we have this driver model in the first
> place...*

It /doesn't/ make any sense to in this case. We're talking effectively about the LCD panel attributes, not a device as such.

IOW:

- LCD backlight brightness
- LCD backlight on/off
- LCD panel power on/off

Typically, the last item needs to be closely controlled in relation to the LCD controller itself, and it just does not make sense to separate the LCD panel power control from the controller itself in the device model. In fact, exposing the LCD panel power control independent of the LCD controller state can lead to cases where you end up destroying your LCD panel – there is a very defined sequence to power up/down these things to avoid degradation.

However, the issue is that all of the three things can be handled god-knows-which-way on any platform, even when they're using the same LCD controllers. So we need a way for platform/machine specific code to provide the information so that the LCD controller can correctly handle these settings on blank, etc.

Hope this provides some extra reasoning why using the device model for these attributes is wrong.

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Russell King

Re: two patches – request for comments

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