

Klever - Bug #10468

Improve environment models for runtime power management callbacks

08/19/2020 12:54 PM - Ilja Zakharov

Status:	Closed	Start date:	08/19/2020
Priority:	Urgent	Due date:	
Assignee:	Ilja Zakharov	% Done:	0%
Category:	Environment model	Estimated time:	0.00 hour
Target version:	3.0	Published in build:	
Detected in build:	git		
Platform:			

Description

There is a PM specification for general PM callbacks that are available for implementation in several kinds of bus drivers. The latest runs show that there are many false alarms caused by an incorrect order of invocation of runtime callbacks. One needs to investigate reasons and improve existing specifications.

Examples (clk2)

```
drivers/media/platform/stm32/stm32-dcmi.ko
drivers/media/platform/sti/delta/st-delta.ko
drivers/media/platform/qcom/venus/venus-enc.ko
drivers/media/platform/rockchip/rga/rockchip-rga.ko
drivers/media/platform/sunxi/sun4i-csi/sun4i-csi.ko
drivers/media/platform/sunxi/sun8i-di/sun8i-di.ko
drivers/media/platform/mtk-jpeg/mtk_jpeg.ko
drivers/media/platform/s5p-cec/s5p-cec.ko
```

History

#1 - 08/21/2020 07:44 PM - Ilja Zakharov

- Status changed from New to Feedback

Implemented in runtime-pm-fixes.

Note, that some FP are not gone because of rule-related problems.

#2 - 08/25/2020 07:33 PM - Evgeny Novikov

- Status changed from Feedback to Resolved

Ilja fixed the model one more time, so, it seems, that now everything is okay, but let's wait for new testing results.

#3 - 08/26/2020 11:05 AM - Evgeny Novikov

- Status changed from Resolved to Closed

- Subject changed from *Improve environment models for runtime power management callbacks.* to *Improve environment models for runtime power management callbacks*

Tested passed. Moreover, CI showed that 2 negative regressions introduced by branch *extra-specifications* have gone. Testing on real-world drivers demonstrate that corresponding false alarms disappear, but the environment model became a slightly more complicated, so, there are several new timeouts. So, I merged the branch to master in [30baa063e](#).