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PHY framework

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Subject: [PATCH 00/15] PHY framework **Date**: Thu, 18 Jul 2013 12:16:09 +0530

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link:

Added a generic PHY framework that provides a set of APIs for the PHY drivers to create/destroy a PHY and APIs for the PHY users to obtain a reference to the PHY with or without using phandle.

This framework will be of use only to devices that uses external PHY (PHY functionality is not embedded within the controller).

The intention of creating this framework is to bring the phy drivers spread all over the Linux kernel to drivers/phy to increase code re-use and to increase code maintainability.

Comments to make PHY as bus wasn't done because PHY devices can be part of other bus and making a same device attached to multiple bus leads to bad design.

If the PHY driver has to send notification on connect/disconnect, the PHY driver should make use of the extcon framework. Using this susbsystem to use extcon framwork will have to be analysed.

Exynos MIPI CSIS/DSIM PHY and Displayport PHY have started using this framework. Have included those patches also in this series.

twl4030-usb and omap-usb2 have also been adapted to this framework.

These patches are also available @ git://gitorious.org/linuxphy/linuxphy.git tags/phy-for-v3.12

Jingoo Han (3):

phy: Add driver for Exynos DP PHY

video: exynos_dp: remove non-DT support for Exynos Display Port

video: exynos_dp: Use the generic PHY driver

Kishon Vijay Abraham I (8):

drivers: phy: add generic PHY framework

usb: phy: omap-usb2: use the new generic PHY framework usb: phy: twl4030: use the new generic PHY framework

ARM: OMAP: USB: Add phy binding information

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ARM: dts: omap: update usb_otg_hs data
  usb: musb: omap2430: use the new generic PHY framework
  usb: phy: omap-usb2: remove *set_suspend* callback from omap-usb2
  usb: phy: twl4030-usb: remove *set_suspend* and *phy_init* ops
Sylwester Nawrocki (4):
  phy: Add driver for Exynos MIPI CSIS/DSIM DPHYs
  video: exynos_mipi_dsim: Use the generic PHY driver
  exynos4-is: Use the generic MIPI CSIS PHY driver
  ARM: Samsung: Remove the MIPI PHY setup code
 .../devicetree/bindings/phy/phy-bindings.txt
                                                         66 +++
 .../devicetree/bindings/phy/samsung-phy.txt
                                                         22 +
 Documentation/devicetree/bindings/usb/omap-usb.txt
                                                          5
                                                           +
 Documentation/devicetree/bindings/usb/usb-phy.txt
                                                          6 +
 .../devicetree/bindings/video/exynos dp.txt
                                                         18 +-
 Documentation/phy.txt
                                                        129 +++++
 MAINTAINERS
                                                          7 +
                                                          2
 arch/arm/boot/dts/omap3-beagle-xm.dts
                                                           +
 arch/arm/boot/dts/omap3-evm.dts
                                                          2
                                                           +
 arch/arm/boot/dts/omap3-overo.dtsi
                                                          2
                                                           +
 arch/arm/boot/dts/omap4.dtsi
                                                          3
                                                           +
 arch/arm/boot/dts/twl4030.dtsi
                                                          1
                                                           +
                                                          5
 arch/arm/mach-exynos/include/mach/regs-pmu.h
                                                          3
 arch/arm/mach-omap2/usb-musb.c
                                                           +
 arch/arm/mach-s5pv210/include/mach/regs-clock.h
                                                          4
 arch/arm/plat-samsung/Kconfig
                                                          5
 arch/arm/plat-samsung/Makefile
                                                          1
 arch/arm/plat-samsung/setup-mipiphy.c
                                                         60
 drivers/Kconfig
                                                         2
                                                           +
                                                         2 +
 drivers/Makefile
 drivers/media/platform/exynos4-is/mipi-csis.c
                                                         16 +-
                                                         28 +
 drivers/phy/Kconfig
 drivers/phy/Makefile
                                                         7 +
 drivers/phy/phy-core.c
                                                        111 ++++
 drivers/phy/phy-exynos-dp-video.c
 drivers/phy/phy-exynos-mipi-video.c
                                                        169 +++++
                                                         1 +
 drivers/usb/musb/Kconfig
                                                          1 +
 drivers/usb/musb/musb core.c
                                                         3 +
 drivers/usb/musb/musb core.h
 drivers/usb/musb/omap2430.c
                                                         26 +-
 drivers/usb/phy/Kconfig
                                                          1 +
 drivers/usb/phy/phy-omap-usb2.c
                                                         60 ++-
 drivers/usb/phy/phy-twl4030-usb.c
                                                         63 ++-
 drivers/video/exynos/Kconfig
                                                         2 +-
 drivers/video/exynos/exynos_dp_core.c
                                                        132 ++---
 drivers/video/exynos/exynos_dp_core.h
                                                        110 ++++
 drivers/video/exynos/exynos_dp_reg.c
                                                         2 -
 drivers/video/exynos/exynos_mipi_dsi.c
                                                        19 +-
 include/linux/phy/phy.h
                                                        344 ++++++++++
 include/linux/platform data/mipi-csis.h
                                                         11 +-
 include/linux/usb/musb.h
                                                         3 +
 include/video/exynos dp.h
                                                        131 ----
 include/video/exynos_mipi_dsim.h
                                                          6 +-
 43 files changed, 1746 insertions(+), 389 deletions(-)
 create mode 100644 Documentation/devicetree/bindings/phy/phy-bindings.txt
 create mode 100644 Documentation/devicetree/bindings/phy/samsung-phy.txt
 create mode 100644 Documentation/phy.txt
 delete mode 100644 arch/arm/plat-samsung/setup-mipiphy.c
 create mode 100644 drivers/phy/Kconfig
 create mode 100644 drivers/phy/Makefile
 create mode 100644 drivers/phy/phy-core.c
 create mode 100644 drivers/phy/phy-exynos-dp-video.c
 create mode 100644 drivers/phy/phy-exynos-mipi-video.c
 create mode 100644 include/linux/phy/phy.h
 delete mode 100644 include/video/exynos dp.h
```

1.7.10.4

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