btmrvl.txt

README for btmrvl driver

All commands are used via debugfs interface.

Set/get driver configurations:

Path: /debug/btmrvl/config/

gpiogap=[n]
hscfgcmd

These commands are used to configure the host sleep parameters.

bit 8:0 -- Gap bit 16:8 -- GPIO

where GPIO is the pin number of GPIO used to wake up the host. It could be any valid GPIO pin# (e.g. 0-7) or 0xff (SDIO interface wakeup will be used instead).

where Gap is the gap in milli seconds between wakeup signal and wakeup event, or Oxff for special host sleep setting.

Usage:

Use SDIO interface to wake up the host and set GAP to 0x80: echo 0xff80 > /debug/btmrvl/config/gpiogap echo 1 > /debug/btmrvl/config/hscfgcmd

Use GPIO pin #3 to wake up the host and set GAP to Oxff: echo OxO3ff > /debug/btmrvl/config/gpiogap echo 1 > /debug/btmrvl/config/hscfgcmd

psmode=[n] pscmd

These commands are used to enable/disable auto sleep mode

where the option is:

1 -- Enable auto sleep mode -- Disable auto sleep mode

Usage:

Enable auto sleep mode echo 1 > /debug/btmrvl/config/psmode echo 1 > /debug/btmrvl/config/pscmd

Disable auto sleep mode
echo 0 > /debug/btmrvl/config/psmode
echo 1 > /debug/btmrvl/config/pscmd

hsmode=[n]

These commands are used to enable host sleep or wake up firmware

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where the option is:

1 -- Enable host sleep 0 -- Wake up firmware

Usage:

Enable host sleep

echo 1 > /debug/btmrv1/config/hsmode
echo 1 > /debug/btmrv1/config/hscmd

Wake up firmware

echo 0 > /debug/btmrvl/config/hsmode echo 1 > /debug/btmrvl/config/hscmd

Get driver status:

Path: /debug/btmrvl/status/

Usage:

cat /debug/btmrvl/status/<args>

where the args are:

curpsmode

This command displays current auto sleep status.

psstate

This command display the power save state.

hsstate

This command display the host sleep state.

txdnldrdy

This command displays the value of Tx download ready flag.

Use hcitool to issue raw hci command, refer to hcitool manual

Usage: Hcitool cmd <ogf> <ocf> [Parameters]

SD8688 firmware:

btmrv1.txt

/lib/firmware/sd8688_helper.bin /lib/firmware/sd8688.bin

The images can be downloaded from:

 $\verb|git.infradead.org/users/dwmw2/linux-firmware.git/libertas/|$