
USER MANUAL

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1) FOR DRIVER BUILD

Goto source code directory bt_src/.
make [clean] build

The driver binary can be found in ../bin xxxx bt directory.

2) FOR DRIVER INSTALL

- a) Copy sd8790.bin | sd8787.bin | ... to /lib/firmware/mrvl/ directory, create the directory if it doesn't exist.
- b) Install bluetooth driver,

insmod bt8688.ko | bt8790.ko | mbt8787.ko | ...

- c) Uninstall bluetooth driver and sdio bus driver, hciconfig hciX down rmmod bt8xxx | mbt8xxx
- 3) cat /proc/mbt/hcix/status
 This command is used to get driver status.
- 4) cat /proc/mbt/hcix/config
 This command is used to get the current driver settings.
- 5) proc commands to config bluetooth parameters

drvdbg=[n]

This command is used to set the bit masks of driver debug message control.

bit 0:	MSG	PRINTM(MSG,)
bit 1:	FATAL	PRINTM(FATAL,)
bit 2:	ERROR	PRINTM(ERROR,)
bit 3:	DATA	PRINTM(DATA,)
bit 4:	CMD	PRINTM(CMD,)
bit 5:	EVENT	PRINTM(EVENT,)
bit 6:	INTR	PRINTM(INTR,)

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PRINTM(DAT_D,...), DBG_HEXDUMP(DAT_D,...)
        bit 16: DAT D
        bit 17: CMD D
                                 PRINTM (CMD D, ...), DBG HEXDUMP (CMD D, ...)
        bit 28: ENTRY
                                 PRINTM(ENTRY,...), ENTER(), LEAVE()
        bit 29: WARN
                                 PRINTM (WARN, ...)
        bit 30: INFO
                                 PRINTM(INFO,...)
        Usage:
                echo "drvdbg=0x7" > /proc/mbt/hcix/config
                                                                           #enable
MSG, FATAL, ERROR messages
gpio gap=[n]
        This command is 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 wakeup the host. It could
be any valid
                GPIO pin# (e.g. 0-7) or 0xff (Interface, e.g. SDIO will be used
instead).
        where Gap is the gap in milli seconds between wakeup signal and wakeup
event
                or 0xff for special setting.
        Usage:
                echo "gpio gap=0xff80" > /proc/mbt/hcix/config
                                                                          # use
Interface (e.g.
                SDIO)
                echo "hscfgcmd=1" > /proc/mbt/hcix/config
                                                                           \# gap =
0x80
                echo "gpio gap=0x03ff" > /proc/mbt/hcix/config
                                                                           # use
gpio 3
                echo "hscfgcmd=1" > /proc/mbt/hcix/config
                                                                           # and
special host sleep mode
psmode=[n]
        This command is used to enable/disable auto sleep mode
        where the option is:
                                 -- Enable auto sleep mode
                         0
                                 -- Disable auto sleep mode
        Usage:
                echo "psmode=1" > /proc/mbt/hcix/config
                                                                           #enable
power save mode
                echo "pscmd=1" > /proc/mbt/hcix/config
                echo "psmode=0" > /proc/mbt/hcix/config
                                                                           #disable
power save mode
                echo "pscmd=1" > /proc/mbt/hcix/config
6) Use hcitool to issue raw hci command, refer to hcitool manual
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Usage: Hcitool cmd <ogf> <ocf> [Parameters]

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README..txt

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1. Interface Control Command
hcitool cmd 0x3f 0x5b 0xf5 0x01 0x00
hcitool cmd 0x3f 0x5b 0xf5 0x01 0x01
hcitool cmd 0x3f 0x5b 0xf5 0x01 0x02
hcitool cmd 0x3f 0x5b 0xf5 0x00 0x00
hcitool cmd 0x3f 0x5b 0xf5 0x00 0x01
hcitool cmd 0x3f 0x5b 0xf5 0x00 0x01
hcitool cmd 0x3f 0x5b 0xf5 0x00 0x02

--Enable All interface
--Disable All interface
--Disable Wlan interface
--Disable BT interface

7) cat /proc/mbt/hcix/debug

This command is used to get driver debug parameters.

- 8) proc command to config debug parameters
- sdcmd52rw=\langlefunc> \langlereq [data]

This command is used to read/write a controller register in Secure Digital I/O Interfaces.

func: The function number to use (0-7) reg: The address of the register

data: The value to write, read if the value is absent

For SDIO MMC driver, only function 0 and BT function (2/3) access is allowed.

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registers (0xf0 - 0xff) are permitted.

Usage:

echo "sdcmd52rw= 2 3 0xf" > /proc/mbt/hcix/debug # write

Oxf to func 2 address 3

echo "sdcmd52rw= 0 4" > /proc/mbt/hcix/debug # read

func 0 address 4
