NAME
acpi_fujitsu - Fujitsu Laptop Extras

SYNOPSIS
To compile this driver into the kernel, place the following line in your kernel configuration file:

device acpi_fujitsu

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

acpi_fujitsu_load="YES"

DESCRIPTION
The **acpi_fujitsu** driver enables the ACPI-controlled buttons on Fujitsu notebooks. The button events are sent to userspace via devd(8), and a sysctl(8) interface is provided to simulate the hardware events.

Using this driver, one can control the brightness of the display, the volume of the speakers, and the internal (eraserhead) mouse pointer.

SYSCTL VARIABLES
These sysctls are currently implemented:

hw.acpi.fujitsu.lcd_brightness
        Makes the LCD backlight brighter or dimmer.

hw.acpi.fujitsu.pointer_enable
        Enables or disables the internal mouse pointer.

hw.acpi.fujitsu.volume
        Controls the speaker volume.

hw.acpi.fujitsu.mute
        Mutes the speakers.

Defaults for these sysctls can be set in sysctl.conf(5).

EXAMPLES
The following can be added to devd.conf(5) in order to pass button events to a
/usr/local/sbin/acpi_oem_exec.sh script:

```
    notify 10 {
        match "system"                    "ACPI";
        match "subsystem"        "FUJITSU";
        action "/usr/local/sbin/acpi_oem_exec.sh $notify fujitsu";
    };
```

A possible */usr/local/sbin/acpi_oem_exec.sh* script might look like:

```sh
#!/bin/sh
#
if [ "$1" = "" -o "$2" = "" ]
then
    echo "usage: $0 notify oem_name"
    exit 1
fi
NOTIFY=`echo $1`
LOGGER="logger"
CALC="bc"
BC_PRECOMMANDS="scale=2"
ECHO="echo"
CUT="cut"
MAX_LCD_BRIGHTNESS=7
MAX_VOLUME=16
OEM=$2
DISPLAY_PIPE=/tmp/acpi_${OEM}_display

case ${NOTIFY} in
    0x00)
        LEVEL=`sysctl -n hw.acpi.${OEM}.mute`
        if [ "$LEVEL" = "1" ]
        then
            MESSAGE="volume muted"
        else
            MESSAGE="volume unmuted"
        fi
        ;;
    0x01)
        LEVEL=`sysctl -n hw.acpi.${OEM}.pointer_enable`
        if [ "$LEVEL" = "1" ]
        then
```

```
                    MESSAGE="pointer enabled"
              else
                    MESSAGE="pointer disabled"
              fi
              ;;
        0x02)
              LEVEL=`sysctl -n hw.acpi.${OEM}.lcd_brightness`
              PERCENT=`${ECHO} "${BC_PRECOMMANDS} ; \
                             ${LEVEL} / ${MAX_LCD_BRIGHTNESS} * 100" |\
                             ${CALC} | ${CUT} -d . -f 1`
              MESSAGE="brightness level ${PERCENT}%"
              ;;
        0x03)
              LEVEL=`sysctl -n hw.acpi.${OEM}.volume`
              PERCENT=`${ECHO} "${BC_PRECOMMANDS} ; \
                             ${LEVEL} / ${MAX_VOLUME} * 100" | \
                             ${CALC} | ${CUT} -d . -f 1`
              MESSAGE="volume level ${PERCENT}%"
              ;;
        *)
              ;;
        esac
        ${LOGGER} ${MESSAGE}
        if [ -p ${DISPLAY_PIPE} ]
        then
              ${ECHO} ${MESSAGE} >> ${DISPLAY_PIPE} &
        fi
    exit 0
```

SEE ALSO

acpi(4), sysctl.conf(5), devd(8), sysctl(8)

HISTORY

The **acpi_fujitsu** driver first appeared in FreeBSD 5.4.

AUTHORS

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