

**NAME**

**iichid** - I2C HID transport driver

**SYNOPSIS**

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

```
device iichid
```

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

```
iichid_load="YES"
```

**DESCRIPTION**

The **iichid** driver provides a interface to I2C Human Interface Devices (HIDs).

**SYSCTL VARIABLES**

Next parameters are available as sysctl(8) variables. Debug parameter is available as loader(8) tunable as well.

*dev.iichid.\*.sampling\_rate\_fast*

Active sampling rate in num/second (for sampling mode).

*dev.iichid.\*.sampling\_rate\_slow*

Idle sampling rate in num/second (for sampling mode).

*dev.iichid.\*.sampling\_hysteresis*

Number of missing samples before enabling of slow mode (for sampling mode).

*hw.iichid.debug*

Debug output level, where 0 is debugging disabled and larger values increase debug message verbosity. Default is 0.

**SEE ALSO**

ig4(4)

**BUGS**

The **iichid** does not support GPIO interrupts yet. In that case **iichid** enables sampling mode with periodic polling of hardware by driver means. See *dev.iichid.\*.sampling\_\** sysctl(8) variables for tuning of sampling parameters.

## HISTORY

The **iichid** driver first appeared in FreeBSD 13.0.

## AUTHORS

The **iichid** driver was written by Marc Priggemeyer <[marc.priggemeyer@gmail.com](mailto:marc.priggemeyer@gmail.com)> and Vladimir Kondratyev <[wulf@FreeBSD.org](mailto:wulf@FreeBSD.org)>.

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