Kernel driver pxe1610

Supported chips:

- Infineon PXE1610

  Prefix: 'pxe1610'

  Addresses scanned: -

  Datasheet: Datasheet is not publicly available.

- Infineon PXE1110

  Prefix: 'pxe1110'

  Addresses scanned: -

  Datasheet: Datasheet is not publicly available.

- Infineon PXM1310

  Prefix: 'pxm1310'

  Addresses scanned: -

  Datasheet: Datasheet is not publicly available.

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Description

PXE1610/PXE1110 are Multi-rail/Multiphase Digital Controllers and compliant to

- Intel VR13 DC-DC converter specifications.
- Intel SVID protocol.

Used for Vcore power regulation for Intel VR13 based microprocessors

- Servers, Workstations, and High-end desktops

PXM1310 is a Multi-rail Controller and it is compliant to

- Intel VR13 DC-DC converter specifications.
- Intel SVID protocol.

Used for DDR3/DDR4 Memory power regulation for Intel VR13 and IMVP8 based systems

Usage Notes

This driver does not probe for PMBus devices. You will have to instantiate devices explicitly.

Example: the following commands will load the driver for an PXE1610 at address 0x70 on I2C bus #4:

```
# modprobe pxe1610
# echo pxe1610 0x70 > /sys/bus/i2c/devices/i2c-4/new_device
```

It can also be instantiated by declaring in device tree

Sysfs attributes

curr1_label	"iin"
curr1_input	Measured input current
curr1_alarm	Current high alarm
curr[2-4]_label	"iout[1-3]"
curr[2-4]_input	Measured output current
curr[2-4]_crit	Critical maximum current
curr[2-4]_crit_alarm	Current critical high alarm
in1_label	"vin"
in1_input	Measured input voltage
in1_crit	Critical maximum input voltage

in1_crit_alarm	Input voltage critical high alarm
in[2-4]_label	"vout[1-3]"
in[2-4]_input	Measured output voltage
in[2-4]_lcrit	Critical minimum output voltage
in[2-4]_lcrit_alarm	Output voltage critical low alarm
in[2-4]_crit	Critical maximum output voltage
in[2-4]_crit_alarm	Output voltage critical high alarm
power1_label	"pin"
power1_input	Measured input power
power1_alarm	Input power high alarm
power[2-4]_label	"pout[1-3]"
power[2-4]_input	Measured output power
temp[1-3]_input	Measured temperature
temp[1-3]_crit	Critical high temperature
temp[1-3]_crit_alarm	Chip temperature critical high alarm
temp[1-3]_max	Maximum temperature
temp[1-3]_max_alarm	Chip temperature high alarm