Kernel driver ltc4245
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Supported chips:
  * Linear Technology LTC4245
    Prefix: 'ltc4245'
    Addresses scanned: 0x20-0x3f
    Datasheet:

http://www.linear.com/pc/downloadDocument.do?navId=H0,C1,C1003,C1006,C1140,P19392,D13517

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Description

The LTC4245 controller allows a board to be safely inserted and removed
from a live backplane in multiple supply systems such as CompactPCI and
PCI Express.

Usage Notes

This driver does not probe for LTC4245 devices, due to the fact that some
of the possible addresses are unfriendly to probing. You will have to
instantiate the devices explicitly.

Example: the following will load the driver for an LTC4245 at address 0x23
on I2C bus #1:
$ modprobe ltc4245
$ echo ltc4245 0x23 > /sys/bus/i2c/devices/i2c-1/new_device

Sysfs entries

The LTC4245 has built-in limits for over and under current warnings. This
makes it very likely that the reference circuit will be used.

This driver uses the values in the datasheet to change the register values
into the values specified in the sysfs-interface document. The current readings
rely on the sense resistors listed in Table 2: "Sense Resistor Values".

in1_input	12v input voltage (mV)
in2_input	5v input voltage (mV)
in3_input	3v input voltage (mV)
in4_input	Vee (-12v) input voltage (mV)
in1_min_alarm	12v input undervoltage alarm
in2_min_alarm	5v input undervoltage alarm
in3_min_alarm	3v input undervoltage alarm
in4_min_alarm	Vee (-12v) input undervoltage alarm

curr1_input	12v current (mA)
curr2_input	5v current (mA)
curr3_input	3v current (mA)
curr4_input	Vee (-12v) current (mA)
curr1_max_alarm	12v overcurrent alarm
curr2_max_alarm	5v overcurrent alarm
curr3_max_alarm	3v overcurrent alarm
curr4_max_alarm	Vee (-12v) overcurrent alarm
in5_input	12v output voltage (mV)
in6_input	5v output voltage (mV)
in7_input	3v output voltage (mV)
in8_input	Vee (-12v) output voltage (mV)
in5_min_alarm	12v output undervoltage alarm
in6_min_alarm	5v output undervoltage alarm
in7_min_alarm	3v output undervoltage alarm
in8_min_alarm	Vee (-12v) output undervoltage alarm
in9_input	GPIO voltage data
power1_input	12v power usage (mW)
power2_input	5v power usage (mW)
power3_input	3v power usage (mW)
power4_input	Vee (-12v) power usage (mW)