Kernel driver ltc2990

Supported chips:

- Linear Technology LTC2990

  Prefix: 'ltc2990'

  Addresses scanned: -

  Datasheet: http://www.linear.com/product/ltc2990

Author:

- Mike Looijmans <mike.looijmans@topic.nl>
- Tom Levens <tom.levens@cern.ch>

Description

LTC2990 is a Quad I2C Voltage, Current and Temperature Monitor. The chip's inputs can measure 4 voltages, or two inputs together (1+2 and 3+4) can be combined to measure a differential voltage, which is typically used to measure current through a series resistor, or a temperature with an external diode.

Usage Notes

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

Sysfs attributes

in0_input	Voltage at Vcc pin in millivolt (range 2.5V to 5V)
temp1_input	Internal chip temperature in millidegrees Celsius

A subset of the following attributes are visible, depending on the measurement mode of the chip.

in[1-4]_input	Voltage at V[1-4] pin in millivolt
temp2_input	External temperature sensor TR1 in millidegrees Celsius
temp3_input	External temperature sensor TR2 in millidegrees Celsius
curr1_input	Current in mA across V1-V2 assuming a 1mOhm sense resistor
curr2_input	Current in mA across V3-V4 assuming a 1mOhm sense resistor

The "curr*_input" measurements actually report the voltage drop across the input pins in microvolts. This is equivalent to the current through a 1mOhm sense resistor. Divide the reported value by the actual sense resistor value in mOhm to get the actual value.