Kernel driver wm831x-hwmon

Supported chips:
  * Wolfson Microelectronics WM831x PMICs
    Prefix: 'wm831x'
    Datasheet:
        http://www.wolfsonmicro.com/products/WM8310
        http://www.wolfsonmicro.com/products/WM8311
        http://www.wolfsonmicro.com/products/WM8312

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Description

The WM831x series of PMICs include an AUXADC which can be used to
monitor a range of system operating parameters, including the voltages
of the major supplies within the system. Currently the driver provides
reporting of all the input values but does not provide any alarms.

Voltage Monitoring

Voltages are sampled by a 12 bit ADC. Voltages in milivolts are 1.465
times the ADC value.

Temperature Monitoring

Temperatures are sampled by a 12 bit ADC. Chip and battery temperatures
are available. The chip temperature is calculated as:

Degrees celsius = (512.18 - data) / 1.0983

while the battery temperature calculation will depend on the NTC
thermistor component.