Kernel driver max1668

Supported chips:

- Maxim MAX1668, MAX1805 and MAX1989

  Prefix: 'max1668'

  Addresses scanned: I2C 0x18, 0x19, 0x1a, 0x29, 0x2a, 0x2b, 0x4c, 0x4d, 0x4e

  Datasheet: http://datasheets.maxim-ic.com/en/ds/MAX1668-MAX1989.pdf

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Description

This driver implements support for the Maxim MAX1668, MAX1805 and MAX1989 chips.

The three devices are very similar, but the MAX1805 has a reduced feature set; only two remote temperature inputs vs the four available on the other two ICs.

The driver is able to distinguish between the devices and creates sysfs entries as follows:

- MAX1805, MAX1668 and MAX1989:

temp1_input	ro	local (ambient) temperature
temp1_max	rw	local temperature maximum threshold for alarm
temp1_max_alarm	ro	local temperature maximum threshold alarm
temp1_min	rw	local temperature minimum threshold for alarm
temp1_min_alarm	ro	local temperature minimum threshold alarm
temp2_input	ro	remote temperature 1
temp2_max	rw	remote temperature 1 maximum threshold for alarm
temp2_max_alarm	ro	remote temperature 1 maximum threshold alarm
temp2_min	rw	remote temperature 1 minimum threshold for alarm
temp2_min_alarm	ro	remote temperature 1 minimum threshold alarm
temp3_input	ro	remote temperature 2
temp3_max	rw	remote temperature 2 maximum threshold for alarm
temp3_max_alarm	ro	remote temperature 2 maximum threshold alarm
temp3_min	rw	remote temperature 2 minimum threshold for alarm
temp3_min_alarm	ro	remote temperature 2 minimum threshold alarm

- MAX1668 and MAX1989 only:

temp4_input	ro	remote temperature 3
temp4_max	rw	remote temperature 3 maximum threshold for alarm
temp4_max_alarm	ro	remote temperature 3 maximum threshold alarm
temp4_min	rw	remote temperature 3 minimum threshold for alarm
temp4_min_alarm	ro	remote temperature 3 minimum threshold alarm
temp5_input	ro	remote temperature 4
temp5_max	rw	remote temperature 4 maximum threshold for alarm
temp5_max_alarm	ro	remote temperature 4 maximum threshold alarm
temp5_min	rw	remote temperature 4 minimum threshold for alarm
temp5_min_alarm	ro	remote temperature 4 minimum threshold alarm

Module Parameters

- read_only: int Set to non-zero if you wish to prevent write access to alarm thresholds.