

Kernel driver peci-dimmtemp

Supported chips:

One of Intel server CPUs listed below which is connected to a PECI bus.

- Intel Xeon E5/E7 v3 server processors
Intel Xeon E5-14xx v3 family Intel Xeon E5-24xx v3 family Intel Xeon E5-16xx v3 family Intel Xeon E5-26xx v3 family Intel Xeon E5-46xx v3 family Intel Xeon E7-48xx v3 family Intel Xeon E7-88xx v3 family
- Intel Xeon E5/E7 v4 server processors
Intel Xeon E5-16xx v4 family Intel Xeon E5-26xx v4 family Intel Xeon E5-46xx v4 family Intel Xeon E7-48xx v4 family Intel Xeon E7-88xx v4 family
- Intel Xeon Scalable server processors
Intel Xeon D family Intel Xeon Bronze family Intel Xeon Silver family Intel Xeon Gold family Intel Xeon Platinum family

Datasheet: Available from <http://www.intel.com/design/literature.htm>

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Description

This driver implements a generic PECI hwmon feature which provides Temperature sensor on DIMM readings that are accessible via the processor PECI interface.

All temperature values are given in millidegree Celsius and will be measurable only when the target CPU is powered on.

Sysfs interface

temp[N]_label	Provides string "DIMM CI", where C is DIMM channel and I is DIMM index of the populated DIMM.
temp[N]_input	Provides current temperature of the populated DIMM.
temp[N]_max	Provides thermal control temperature of the DIMM.
temp[N]_crit	Provides shutdown temperature of the DIMM.

Note:

DIMM temperature attributes will appear when the client CPU's BIOS completes memory training and testing.