

Re: sensor identification

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.hardware/2007-05/msg00140.html>

- *From:* floyd@xxxxxxxxxx (Floyd L. Davidson)
 - *Date:* Fri, 11 May 2007 12:38:30 -0800
-

ebenZEROONE@xxxxxxxxxx (Hactar) wrote:

So I've got a question. I set up lm_sensors, and now I can see temperatures, fan speeds, and voltages. But some of them are not identified, or IDed with a low confidence. I see:

```
eben@pc:~$ sensors
it8716-isa-0290
Adapter: ISA adapter
VCore: +1.25 V (min = +0.00 V, max = +4.08 V)
+3.3V: +3.36 V (min = +0.00 V, max = +4.08 V)
+5V: +5.01 V (min = +0.00 V, max = +7.02 V)
+12V: +12.03 V (min = +0.00 V, max = +16.32 V)
-12V: -12.01 V (min = -0.00 V, max = -16.20 V)
V5SB: +5.01 V (min = +0.00 V, max = +7.10 V)
VBat: +3.06 V
```

The voltages appear to be correct, but max/min values aren't very useful. You might want to pull those down to 1%, 5% or 10%, of the target voltage, depending on which voltage it is. For example the VCore voltage has very tight regulation, but the -12VDC voltage does not.

```
CPU Fan: 1344 RPM (min = 0 RPM)
Cs front: 2472 RPM (min = 0 RPM)
Cs rear: 2755 RPM (min = 0 RPM)
```

Those may or may not be accurate. If you have slow speed fans they might be. It could just as easily be that they are going twice that fast. In particular it would be amazing if the CPU fan is only going 1344 RPM.

Also, you might want to set the minimum RPM (where an alarm will be indicated) at 1/2 or 2/3 the normal speed. A 0 RPM alarm is worthless.

Re: sensor identification

CPU Temp: +29 C (low = -1 C, high = +127 C) sensor = diode
temp2: +36 C (low = -1 C, high = +127 C) sensor = thermistor
temp3: +25 C (low = -1 C, high = +127 C) sensor = thermistor

Those do not look particularly accurate. Unless you just turned on the machine, the CPU is almost certain to be higher than 30C (86F).

You might try changing the sensor and see if there is one that gives a reasonable value. Something over 40C is probably normal.

vid: +1.525 V

k8temp-pci-00c3
Adapter: PCI adapter
temp1: +28 C
temp3: +27 C

```
eben@pc:~$ cat /proc/acpi/thermal_zone/THRM/temperature
temperature: 40 C
```

The three fans and "CPU temp" I worked out myself. The fans I'm sure about; I have a rheostat on the CPU fan, and th