

## Re: 2 core dumps

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2008-02/msg00778.html>

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- *From:* Mikael Ikivesi <[mikael.ikivesi@xxxxxxxxxx](mailto:mikael.ikivesi@xxxxxxxxxx)>
  - *Date:* Fri, 22 Feb 2008 18:02:46 +0200
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On Fri, 22 Feb 2008 12:09:26 +0100

Dag-Erling Smørgrav <[des@xxxxxx](mailto:des@xxxxxx)> wrote:

Your laptop overheats when running at its rated frequency? That's your answer. Hardware error. Most likely incorrect application of heat transfer compound between the CPU and the heatsink, or blocked or defective fans. If your CPU has overheated even once, you can't trust it any more, unless it has an automatic cutoff like Core and Core 2.

DES

Fans are working and clean. Dried silverpaste was replaced few weeks ago as I cleaned heatsink..Everything works. As I wrote earlier it cannot maintain 2.4Ghz constantly but has to speed down.

On Fri, 22 Feb 2008 08:17:24 -0500

"Alexandre \"Sunny\" Kovalenko" <[alex.kovalenko@xxxxxxxxxx](mailto:alex.kovalenko@xxxxxxxxxx)> wrote:

If "overheated" in this context means "initiated critical shutdown" neither statement needs to be true. For instance, there is the patch from Umemoto-san floating around [acpi@](mailto:acpi@) that enables use of passive cooling for the thermal zones other than tz0, and there is at least one model of laptop that I know of, which uses tz1 for its CPU. This means that FreeBSD *will not* handle passive cooling on such laptop and it might reach `_CRT` and shut itself down. Also, some manufacturers put `_PSV` dangerously close to `_CRT`, assuming that OS will take over in time, which might or might not happen in the real life.

Overheating in this case means my own judgement and usability. If I use power and stress this machine by compiling lot of stuff in background while doing some work this laptop heats a lot. Temperature seems to stay between 85-95 degrees and fans screams constantly. I have not let it stay in that condition for long time, because I don't know if it

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will shutdown properly if I let it heat more...if it heats more. Or does it throttle down like with linux..

So the defination would be:

Overheating is system getting uncomfortable to use (lot of noise and the fact that my machine becomes something that cannot be called LAPtop)

AND this does NOT mean my laptop is toast(er)..

tz0 is my cpu and it show right values. When this laptop heats it seems to be more like powerd related. 800-1800Mhz fans kick in every now and then and keep system in sane temperature. Powerd seems to work better if I set user.override and lower value to \_PSV. It seems to kick machine into constant loop of changing 800->1800 after heat has risen and then stays there until compilation (or etc.) has finished. This way powerd cab be used and my system works as usable LAPtop.

As currently I use this laptop mostly for writing and some desktop publishing jobs I dont currently need power as I am comfortable with lowest value and longes battery life.

And I guess this laptop throttles quite nicely to safe cpu freq when it needs to. With linux I noticed that if let compiling (former gentoo user) get too intensive and heat builds up machine goes to strange frequency of 1920Mhz which is not available in any other way. And it locks it as highest value that this machine is capable for sometime and then releases it and lets cpu to go 2.4Ghz (Or is this something that linux does without my knowing???)

On Fri, 22 Feb 2008 15:42:05 +0100  
Dag-Erling Smørgrav <des@xxxxxx> wrote:

Right. Your laptop is dead. Deal with it.

Not yet accepting that as a fact ;)

And to get back to possible reasons for those coredumps I guess that the fact that this machine rebooted and dumped at frequency of 800Mhz that has NEVER overheated I cannot see heating as reason for them...

I am currently try to find out what causes them by doing lot of things with X and without X to get the idea if this is caused by FreeBSD

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itself or somehow by some new port behaving badly on FreeBSD.

And as this has not happened with linux I cannot blame hardware alone...

–Mikael

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