

Re: P4 temperature

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.hardware/2005-02/0996.html>

From: Vic Baron (vgbaron_at_hotmail.com)

Date: 02/03/05

Date: Thu, 3 Feb 2005 08:11:49 -0800

OK – here's the resolution after working for a few days with Intel tech support.

The P4 550 3.4G chip will happily chug along as long as it does not exceed 73.2C, so running at 70C under full load is within parameters. The fix for the overheating alerts was not what I expected – I had to remove ALL the extra fans that were installed leaving just the CPU fan, the rear case exhaust fan and the PS fan. Seems like the "thermally approved" cases for the P4 need to have unrestricted air flow. Even though the extra fans were in the proper orientation re intake/exhaust it somehow changed the flow over the CPU. Go figure. Took all the fans out and ran it at full load for 6 hours and it stayed happily at 68 – 70C. Tested by putting each fan in individually and running again and then removing. The temps increased by 1 or 2C in each case. Good airflow around the side and rear of the case is critical also. I had the case six inches from a wall on the left (vented) side and the temp increased – moved it diagonally and temp went back to "normal".

Anyhow, that's my saga, the P4 seems happy as a clam. Maybe this info will help someone else.

Thanx for the help and suggestions,

Vic

"Vic Baron" <vgbaron@hotmail.com> wrote in message
news:%23vo2aR%23BFHA.3236@TK2MSFTNGP15.phx.gbl...

>

> *Running xp pro SP2 on a system with an Intel 915GAV mobo and P4 3.4
> processor with 1G PC3200ram. It is in hyperthread mode.*

>

> *The case is one recommended by Intel with the venturi like tube on the
side.*

> *In addition to the p/s fan (450W ps) and the processor fan there is one
> 80mm rear exhaust fan, a "card" fan (exhaust), a side 80mm intake fan and
> two 80mm front intake fans.*

>

Re: P4 temperature

- > *Installed the latest BIOS and drivers from the Intel site.*
- >
- > *Using their(Intel) Desktop Utilities to monitor the stats –*
- >
- > *At startup and normal operation – processor is at 49C and mobo is 38C*
- >
- > *Running an application like MS FlightSimulator 2004 which utilizes almost*
- > *all of the processing power –*
- >
- > *Processor temp 69C to 73C and mobo 40C to 42C. Problem is that 73C trips*
- > *the alert for processor exceeding max temp. I *could* increase the*
- > *default*
- > *limit to > 73C but not sure if it is wise.*
- >
- > *Other than the alert popping up, the system seems to run fine. Is this a*
- > *normal or acceptable temp for the p4 3.4 (not the extreme edition)?*
- >
- > *Thanx,*
- >
- > *Vic Baron*
- >
- >
- > *--*
- > *There are 10 kinds of people – those who understand binary and those who*
- > *don't*
- >
- >