

Re: AMD Cool' n' Quiet ?

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.hardware/2008-02/msg00392.html>

- *From:* "RJK" <notatospam@xxxxxxxxxxx>
 - *Date:* Wed, 20 Feb 2008 21:11:02 -0000
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Thanks Paul,

In addition to researching recent-ish wierd and wonderful motherboard features bios settings, such as AMD "Cool'n'Quiet," Intel "SpeedStep" etc.it's the same old story, i.e. various manufacturers call the same thing by different labels etc. only give a token description in bios, and often the manual on cd just duplicates what's in the bios, and is invariably slightly different.

e.g. It's time-consuming hunting down of bios items like, memory settings like "Super Bypass Mode,"

which appears to only be of use on single core cpu machines:-

<http://www.techarp.com/showFreeBOG.aspx?lang=0&bogno=178>

....handy little pages this:-

<http://www.techarp.com/freebog.aspx?sort=cat>

regards, Richard

"Paul" <nospam@xxxxxxxxxxx> wrote in message [news:fomhk1\\$bag\\$1@xxxxxxxxxxx](mailto:news:fomhk1bag1@xxxxxxxxxxx)

RJK wrote:

Hello, I've been trying to have a read up on this "power saving" bios feature.

My XP Home ed., Conroe 865PE, Intel D935 cpu based machine has it, (not sure what the label for it in bios is atm), and just made a Asrock AlivenF6G-VSTA/M/ASR, also XP Home ed.

I've gleaned that this feature can reduce cpu voltage and/ frequency etc. ? ...and I noticed, (can't remember where now), that the "Portable/Laptop" power scheme has to be selected in "Power Options Properties," for it to work ? I think that was in relation to the Intel chipset on the Conroe 865PE motherboard.

Anyone know if this applies or also applies to the Nforce 6150SE chipset on the AlivenF6G-VSTA/M/ASR.

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Any contributions gladly accepted ?

regards, Richard

EIST is explained here. This is for an Intel processor.

<http://en.wikipedia.org/wiki/Speedstep>

Cool N' Quiet is the version provided by AMD.

<http://en.wikipedia.org/wiki/Cool%27n%27Quiet>

For CNQ, you install some AMD software, and use the "Minimal Power Management" setting.

One thing missing from the following description, is the need to enable ACPI 2.0 in

the BIOS. CNQ control is passed as an ACPI object, from the BIOS to the OS. The BIOS

passes tables at some point, and they contain something that the OS uses in response to power state changes.

http://www.amd.com/us-en/assets/content_type/DownloadableAssets/Cool_N_Quiet_Installation_Guide3.pdf

There are only a few motherboard manuals, that include a description of what to do.

I'd say generally speaking, that the tweaks that should be applied to an AMD system are not well known and documented. Many users may not be aware of what they're missing.

Downloads for an X2 are here. Phenom has a separate page.

http://www.amd.com/us-en/Processors/TechnicalResources/0,,30_182_871_13118.00.html

The following one, looks like the CPU driver, to support CNQ.

"AMD Athlon 64 X2 Dual Core Processor Driver Version 1.3.2.0053 for Windows XP and Windows Server 2003 (x86 and x64)"

There is also a "AMD Power Monitor Version 1.2.0" application, but the link is

wrong. The last time I checked, it would be this link. Some motherboard CDs also

come with software that performs the same function – of displaying the current running state.

http://www.amd.com/us-en/assets/content_type/utilities/powersetup.exe

On the download page, you'll also find "AMD Dual-Core Optimizer".

There is a whole thread devoted to the Optimizer and also Update4 (KB896256-V4)

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from Microsoft. (Generally, with threads like this one, it pays to read what experiences people have had while doing the install.)

<http://forum.notebookreview.com/showthread.php?t=60416>

As I don't own an Athlon64 system, I don't have any first hand experience with this stuff. My AthlonXP machine was a lot simpler to deal with (Plug and Play, so to speak).

Paul