Subject: Adding more CPU power externally?
Posted by cnc95fan on Mon, 16 Feb 2009 22:12:52 GMT
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I have a dell foxconn g33 motherboard which is quad core capable. Dell ships this mobo in 2 different versions, one with enough power for dual core and another which will supply the correct amount for a quad core. This mobo came with the dual core version. Is there a way I can add more watts to the CPU externally? I know it's possible since overclockers have to do it when they need more power, all google search results I have done do not display what I'm looking for

Subject: Re: Adding more CPU power externally?
Posted by Speedy059 on Mon, 16 Feb 2009 22:55:19 GMT
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It's possible. Simply run two wires from your electricity socket outlet and solder ground wire to your chassis and the positive wire directly onto your CPU. Then go into your BIOS configurations and crank up the settings.

Subject: Re: Adding more CPU power externally?
Posted by IronWarrior on Mon, 16 Feb 2009 23:44:24 GMT
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I wouldn't advise that.

Subject: Re: Adding more CPU power externally?
Posted by _SSnipe_ on Mon, 16 Feb 2009 23:47:23 GMT
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Ya that sounds very risky

Subject: Re: Adding more CPU power externally?
Posted by genetix on Tue, 17 Feb 2009 00:36:42 GMT
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No its completely harmless. There's no difference in voltage... None at all. Those computer power supply things are just for show.

Can't offer advice for adding power to your CPU though. First time I've ever heard of that one.

Subject: Re: Adding more CPU power externally?

Posted by luv2pb on Tue, 17 Feb 2009 02:13:12 GMT
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Speedy059 wrote on Mon, 16 February 2009 17:55It's possible. Simply run two wires from your electricity socket outlet and solder ground wire to your chassis and the positive wire directly onto your CPU. Then go into your BIOS configurations and crank up the settings.
You should also delete system32.

Subject: Re: Adding more CPU power externally?
Posted by Gen_Blacky on Tue, 17 Feb 2009 04:48:37 GMT
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Just get a new mother board

Subject: Re: Adding more CPU power externally?
Posted by Chuck Norris on Tue, 17 Feb 2009 08:03:29 GMT
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What do you mean by "enough power for quad cores" and the other "enough power for dual cores"? Something is amiss here.

The motherboard is obviously the same, and the BIOS for that board accepts quad core CPUs, the only thing differing must be the PSU. Simply upgrade that.

P.S. Overclockers do not "add more watts" to the CPU. They add voltage through the BIOS, and also generally have decent quality PSUs from the start.

Subject: Re: Adding more CPU power externally?
Posted by cnc95fan on Tue, 17 Feb 2009 08:37:28 GMT
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Chuck Norris wrote on Tue, 17 February 2009 02:03What do you mean by "enough power for quad cores" and the other "enough power for dual cores"? Something is amiss here.

The motherboard is obviously the same, and the BIOS for that board accepts quad core CPUs, the only thing differing must be the PSU. Simply upgrade that.

P.S. Overclockers do not "add more watts" to the CPU. They add voltage through the BIOS, and also generally have decent quality PSUs from the start.
If you buy an Inspiron 530 from dell, an buy it with a dual core processor they ship a modified version of the board which limits the amount of power that can go though to the CPU.

Subject: Re: Adding more CPU power externally?
Posted by Caveman on Tue, 17 Feb 2009 11:44:25 GMT
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Right so by the sounds of it the motherboard has be locked with its firmware so try finding an up 2 date BIOS (making sure you backup your previous one) or find a 3rd party BIOS.

On a side note. My Dual Core runs on 1.3v - 1.40 @ 125w you can get the new eco quad cores that use 0.85v 1.45v @ 95w so I dont know what your problem is?

Subject: Re: Adding more CPU power externally?
Posted by rrutk on Tue, 17 Feb 2009 12:15:22 GMT
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core2quad needs more then 500 volts for proper function.

for a core2duo 380 volts are enough.

better, to get direct connection to high volt cable from power plant.

this is my power connection inside my core2quad-system:

I just got a 10.000 Volts connection from GE.

My power supply:

PS: This is a joke

Subject: Re: Adding more CPU power externally?
Posted by jnz on Tue, 17 Feb 2009 12:18:45 GMT
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Chuck Norris wrote on Tue, 17 February 2009 08:03
P.S. Overclockers do not "add more watts" to the CPU. They add voltage through the BIOS, and also generally have decent quality PSUs from the start.

Err, yes they do.
P (watts) = V (voltage) * I (current)
I (current) = V (voltage) / R (resistance)

So, keeping the resistance the same (it's not technically resistance, but whatever). As the voltage increases, the current also increases and that also means the power increases.

Subject: Re: Adding more CPU power externally?
Posted by Chuck Norris on Tue, 17 Feb 2009 13:20:37 GMT
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That's true. I'm aware wattage and amperage are directly related, but what I was pointing out is that extra watts are not additionally supplied by the user some other extra and/or manual means on top of the normal power they already draw to function. When overclocking, if more power is needed, you simply raise the voltage in the BIOS and the motherboard automatically gives it that much more wattage. Since the OP stated the board was locked of giving the CPU more power (as most OEMs don't have overclocking options), and he was asking if all other overclocking was done in that way so we could show him how, I was saying no, it's not how it's done.

I'm not seeing how that board doesn't support quad core CPUs but does dual cores unless the BIOS varies, and if they do, it's likely Dell made the boards different in same small way to where they don't/can't use the same BIOS. I'm not sure why Dell did this, but it's not the first time they've done something silly. Either this, or it's only the boards that come with quad cores that ship with the updated BIOS, and the others need updated, but that sounds very, very unlikely. I'm betting Dell, for whatever reason (probably to get more money selling quad cores at inflated prices) made the boards slightly different, so you probably won't be able to flash the BIOS.

Where is the source stating this that you found this out from?

Subject: Re: Adding more CPU power externally?
Posted by jnz on Tue, 17 Feb 2009 17:13:29 GMT
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Chuck Norris wrote on Tue, 17 February 2009 13:20When overclocking, if more power is needed, you simply raise the voltage in the BIOS and the motherboard automatically gives it that much more wattage.

By increasing the voltage, you are directly increasing the amount of power dissapated. If the motherboard was to limit this, or increase it, the voltage shown would have to change.

Chuck Norris wrote on Tue, 17 February 2009 13:20
I'm not sure why Dell did this, but it's not the first time they've done something silly.

They're money greedy pigs.

Subject: Re: Adding more CPU power externally?
Posted by danpaul88 on Tue, 17 Feb 2009 17:19:22 GMT
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Lesson of the day: Don't buy a Dell.

And, are you sure the motherboards are different, or were they just implying that the machine wouldn't support quad core because the PSU simply wasn't up to the task?

Subject: Re: Adding more CPU power externally?
Posted by cnc95fan on Tue, 17 Feb 2009 17:36:14 GMT
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I'll quote from Wiki
Quote:Compatibility Note: There are actually two versions of the Inspiron 530 in production, which are not differentiated in their specifications. When ordered with an Intel Q6600 Core 2 Quad processor, the 530 is equipped with a FoxConn G33m03 motherboard and a LiteOn 375W power supply. When ordered in any other configuration, the 530 is typically equipped with a FoxConn G33m02 motherboard and a 300W Bestec power supply. The G33m02 and G33m03 are essentially identical except for the power regulation section of the motherboard. Essentially, the G33m02 is a depopulated (cheaper) version of the board which only has 6 voltage regulator IC's as opposed to the 11 voltage regulators on the G33m03. In practice, this means that the G33m02 version of the motherboard is physically incapable of providing enough current to operate the Intel Q6600 CPU. In essence, if you do not order the Quad Core processor with the system initially, you will NOT be able to upgrade it to one later.

Subject: Re: Adding more CPU power externally?
Posted by EvilWhiteDragon on Tue, 17 Feb 2009 19:08:23 GMT
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cnc95fan wrote on Tue, 17 February 2009 18:36I'll quote from Wiki
Quote:Compatibility Note: There are actually two versions of the Inspiron 530 in production, which are not differentiated in their specifications. When ordered with an Intel Q6600 Core 2 Quad processor, the 530 is equipped with a FoxConn G33m03 motherboard and a LiteOn 375W power supply. When ordered in any other configuration, the 530 is typically equipped with a FoxConn G33m02 motherboard and a 300W Bestec power supply. The G33m02 and G33m03 are essentially identical except for the power regulation section of the motherboard. Essentially, the G33m02 is a depopulated (cheaper) version of the board which only has 6 voltage regulator IC's as opposed to the 11 voltage regulators on the G33m03. In practice, this means that the G33m02 version of the motherboard is physically incapable of providing enough current to operate the Intel Q6600 CPU. In essence, if you do not order the Quad Core processor with the system initially, you will NOT be able to upgrade it to one later.
AKA what you want is impossible without a new motherboard.

Subject: Re: Adding more CPU power externally?
Posted by Prulez on Tue, 17 Feb 2009 20:12:58 GMT
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cnc95fan wrote on Tue, 17 February 2009 18:36

Quote:Compatibility Note: In essence, if you do not order the Quad Core processor with the system initially, you will NOT be able to upgrade it to one later.

So the answer was on wiki all the time.

Subject: Re: Adding more CPU power externally?
Posted by cnc95fan on Tue, 17 Feb 2009 23:43:04 GMT
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...Hence the adding of power externally...

Subject: Re: Adding more CPU power externally?
Posted by Caveman on Tue, 17 Feb 2009 23:53:06 GMT
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The answer is no, get a new mobo.

Subject: Re: Adding more CPU power externally?
Posted by Speedy059 on Wed, 18 Feb 2009 06:29:22 GMT
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I still think my idea is the best! May want to make sure your breaker box is working correctly in the house just incase it shorts out....

Subject: Re: Adding more CPU power externally?
Posted by Chuck Norris on Fri, 20 Feb 2009 09:48:05 GMT
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cnc95fan wrote on Tue, 17 February 2009 18:43...Hence the adding of power externally...
This is what I meant by "overclockers don't this to overclock". He said "add power externally" and "don't overclockers do this?", and, yes I missed the obvious and that my statement was literally incorrect by itself, but I was correct in the way that I was answering his question by telling him that that is not what is done when overclocking, as it's not. It's not possible.

This was a stupid move by Dell. I was sure all of their silly things like this, but it appears not. This is just like the one where they made PSUs physically, but not electrically, compatible, as you can imagine what that led to!

Subject: Re: Adding more CPU power externally?
Posted by CarrierII on Sat, 21 Feb 2009 19:04:35 GMT

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I'd rather not, Chuck, thanks. I'm still getting over the power surge that fried one of my machines. After that - Surge protectors everywhere and the house's mains supply fitted with better circuit breakers. (That was being done anyway - but I made sure)

Don't buy Dell. You could, provided the rest of your components are standard, simply purchase a Q6600 and a compatable motherboard, and assemble it yourself.

Subject: Re: Adding more CPU power externally?
Posted by Lone0001 on Sat, 21 Feb 2009 19:16:36 GMT
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If you are concerned about your computer being damaged by power surges and brownouts get a UPS

Subject: Re: Adding more CPU power externally?
Posted by Gen_Blacky on Sun, 22 Feb 2009 12:27:19 GMT
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Lone0001 wrote on Sat, 21 February 2009 13:16If you are concerned about your computer being damaged by power surges and brownouts get a UPS

whats a ups don't you mean psu

Subject: Re: Adding more CPU power externally?
Posted by IronWarrior on Sun, 22 Feb 2009 13:44:16 GMT
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Gen_Blacky wrote on Sun, 22 February 2009 06:27Lone0001 wrote on Sat, 21 February 2009 13:16If you are concerned about your computer being damaged by power surges and brownouts get a UPS

whats a ups don't you mean psu

No, he means a UPS, a Uninterrupted Power Supply unit.

http://en.wikipedia.org/wiki/Uninterruptible_power_supply

They protect your computer or devices from power outs and surges.