Subject: System failure.
Posted by Dave Anderson on Mon, 15 Oct 2007 03:45:37 GMT
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Some of you here are very good at troubleshooting this kind of stuff so here we go.

An Intel Pentium 4 processor has thermal control built into it at a micro level. Meaning, if it gets to hot it will slow itself down. Along with that, my motherboard has thermal control and will shutdown if the CPU gets too hot. CPU failure doesn't seem likely.

I have had this CPU overclocked for a long time now, but not sure if its been over a year. Its been OC'd from 2.80GHz to 3.50GHz running stable with no hiccups for the duration of its OC'd life.

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My motherboard has CrashFree BIOS, meaning I can shutdown my computer and the BIOS will reset itself if it knows there was an overclocking failure. This did not happen. I reset the CMOS, turned on my PC, still, nothing.

So then I took out two of my memory modules leaving my two new 1GiB modules in, turned on the PC, still, nothing.

Symptoms...

1. Everything internally gets power (fans, hard disks, cd/dvd drives, etc)
2. CPU Fan and all other fans run fine.
3. No beeping.
4. Does NOT reach POST.
5. Keyboard and mouse do NOT get power.

I have a feeling I killed my CPU, but I'm not sure. It could be a part of the motherboard that gave out, but dear god if that happened I'm screwed.

Subject: Re: System failure.
Posted by Caveman on Mon, 15 Oct 2007 06:38:29 GMT
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If you have reset the CMOS (Take the battary out for 5secs and then put it back in just to be sure) and you've replaced the RAM and it doesn't even get to POST then its very likely that you've killed the CPU.

Subject: Re: System failure.
Posted by CarrierII on Mon, 15 Oct 2007 07:46:39 GMT

Either that or you melted some chip on the motherboard. The fastest way to test is to try the CPU chip in another motherboard. I've got a Socket 478 Pentium 4 that survived a power surge that ruined a motherboard, they're quite tough.

Subject: Re: System failure.
Posted by Chuck Norris on Mon, 15 Oct 2007 08:47:26 GMT

Due to the high level of overclock, I assume this is a socket 775 CPU? If so, it's a Prescott (there are no Northwood's for socket 775). That means it was running hot on top of already normally running hot. You may have done damage over time to it that sped up the process of electromigration. Prescott's run hot as it is, and while the CPU might not have gotten hot enough to instantly throttle, it still may not have been good for it over time.

Just a shot in the dark, but either way, it does sound like either the CPU or motherboard is bad. CPU failure is less common than motherboard failure, but given what you were doing, I'd start there it comes to process of elimination. Sinve power is being given, it's almost certainly one of those two parts though (or if you're unlucky, both).

Subject: Re: System failure.
Posted by Zion on Mon, 15 Oct 2007 11:00:42 GMT

If your system doesn't reach POST, your BIOS is screwed. You may need to replace it (if it's in a socket on your motherboard) or replace the motherboard. Also, remove and inspect the CPU for any discoloration and/or signs of overheating, just to be sure.

TBH, i would never overclock a 2.8Ghz processor to 4Ghz. I have a Pentium D downstairs and that's overclocked from 3Ghz to 3.3Ghz and works just fine.

I think you made a big mistake.

Subject: Re: System failure.
Posted by danpaul88 on Mon, 15 Oct 2007 12:54:59 GMT

I never overclock any components in my PC for the simple reason that if you screw up you can face a hefty bill for new parts. Just buy decent parts to begin with and stick with their default clock speeds.

Subject: Re: System failure.
Posted by AoBfrost on Mon, 15 Oct 2007 13:15:05 GMT
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The only thing i can say is take out the battery for 10 minutes, insert it, see if it loads windows, but you may need to redo some settings in the bios since it was all reset. Otherwise like others say, you may have fried a chip, which means you will need a new motherboard or send it back in for repair.

Subject: Re: System failure.
Posted by Dave Anderson on Mon, 15 Oct 2007 13:20:55 GMT
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The Prescott CPU is a socket 478. (They are dream overclockers). I've tried resetting the CMOS via the battery and jumpers to no avail. I've inspected the CPU and there are no burn marks that I can tell. However, the CPU has seem to have made grooves in my heatsink from the nasty clips that hold the heatsink down so tight. I don't know if that means anything though.

I do have another motherboard I can test the CPU in, but I'm not sure if that motherboard is good still. I guess I'll find out when I get home from school.

On the BIOS side of things I do not think the chip is removable/replaceable.

I found my case speaker and put it in (forgot to do that awhile back) and there are no system beeps still.

My motherboard light is on, which according to my manual says the system is either ON, or on SOFTOFF mode. No idea what SOFTOFF mode is though.

If the processor is bad, its not such a big deal twas getting a new one anyway, but right now I guess I am more concerned if the motherboard is bad.

The motherboard is a P4S800D-X that supports either the 533 or 800 Prescott chipsets. Question though... if I overclocked the CPU and the FSB reached over 800, would the motherboard not be able to support that?

Subject: Re: System failure.
Posted by Caveman on Mon, 15 Oct 2007 14:06:24 GMT
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Dave Anderson wrote on Mon, 15 October 2007 14:20The Prescott CPU is a socket 478. (They are dream overclockers). I've tried resetting the CMOS via the battery and jumpers to no avail. I've inspected the CPU and there are no burn marks that I can tell. However, the CPU has seem to have made grooves in my heatsink from the nasty clips that hold the heatsink down so tight. I don't know if that means anything though.

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I must have misread that you had no beeps. If you take out the CPU from a mobo it beeps like crazy when you turn it on, if you're not receiving any, then your mobo is dead. You said the keyboard doesn't get power, safe to say about the monitor aswell? I mean it gets power but its on standby?

Subject: Re: System failure.
Posted by Jecht on Mon, 15 Oct 2007 14:45:10 GMT
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SOFT-OFF is just a reminder that you should unplug the power cable before removing or plugging in motherboard components.

Hate to say it, but to me it sounds like you've damaged the motherboard. Like others have said, it should still POST if the CPU is bad.

Subject: Re: System failure.
Posted by Dave Anderson on Mon, 15 Oct 2007 15:53:16 GMT
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I haven't tried turning it on with the CPU out, so I don't know if it beeps like crazy. And yeah, the monitor is in standby.

I'm going to test my CPU in my other motherboard when I get home... I'll post my results then.

Subject: Re: System failure.

Posted by [AoBfrost](#) on Mon, 15 Oct 2007 15:58:52 GMT

Just try resting the cmos first, that saves the hssle of taking out a cpu and putting it into a new pc, then taking it out again.

Subject: Re: System failure.
Posted by [trooprm02](#) on Mon, 15 Oct 2007 16:13:38 GMT

What ever happened to "not viewing renforums"? Well, about the overclocking, there is NO way you can damage any of your hardware, IF you know what you are doing (and have the right parts). Your first mistake, was buying an Intel, your second mistake was trying to overclock it. There's a reason Intel locks its CPU's multiplyer clock....

Also, depending on your motherboard, im guessing Intel based, so it probably doesn't have 1 of the double BIOS, or overclock locking system-things so, out of luck probably.

Subject: Re: System failure.
Posted by [The Elite Officer](#) on Mon, 15 Oct 2007 16:46:26 GMT

Dave Anderson wrote on Sun, 14 October 2007 23:45Some of you here are very good at troubleshooting this kind of stuff so here we go.

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I have a feeling I killed my CPU, but I'm not sure. It could be a part of the motherboard that gave out, but dear god if that happened I'm screwed.

Okay I will make myself quite clear DUDE, YOU ARE INDEED SCREWED!

Subject: Re: System failure.
Posted by JPNOD on Mon, 15 Oct 2007 17:04:13 GMT
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trooprm02 wrote on Mon, 15 October 2007 12:13What ever happened to "not viewing renforums"? Well, about the overclocking, there is NO way you can damage any of your hardware, IF you know what you are doing (and have the right parts). Your first mistake, was buying an Intel, your second mistake was trying to overclock it. There's a reason Intel locks its CPU's multiplyer clock....

Also, depending on your motherboard, im guessing Intel based, so it probably doesn't have 1 of the double BIOS, or overclock locking system-things so, out of luck probably.

Your post is full shit...

1. You can damage hardware by overclocking, but it doesn't have to necessarily but it will definitely shorten lifespan. Especially with putting the voltage up.

2. Mistake buying a Intel? Got any proof for that?

3.
There's a reason Intel locks its CPU's multiplier clock...

Oh really? Why do the Extreme editions have no lock then?

4.
Also, depending on your motherboard, im guessing Intel based, so it probably doesn't have 1 of the double BIOS, or overclock

Since when is dual bios Intel patent?

Gigabyte and some others out there have the feature called dual bios or crash free bios but that has nothing to with Intel

Subject: Re: System failure.
Posted by JPNOD on Mon, 15 Oct 2007 17:17:31 GMT

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Dave Anderson wrote on Sun, 14 October 2007 23:45Some of you here are very good at troubleshooting this kind of stuff so here we go.

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I have a feeling I killed my CPU, but I'm not sure. It could be a part of the motherboard that gave out, but dear god if that happened I'm screwed.

Probably motherboard, unless you did an abnormal Voltage on your overclocking CPU...

To compare: I had a 2.4C overclocked to 3.3ghz for a while (With voltage increase) and it would still post, but it wasn't stable anymore..(thus random rebooting) I got a new 2.6c chip afterwards.

Subject: Re: System failure.
Posted by Oblivion165 on Mon, 15 Oct 2007 17:46:16 GMT
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Ah you overclockers....

When I need more ghz's I just buy a new CPU.

Core 2 Duo 2.33ghz ftw

Subject: Re: System failure.
Posted by Caveman on Mon, 15 Oct 2007 17:56:51 GMT
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trooprm02 wrote on Mon, 15 October 2007 17:13What ever happened to "not viewing renforums"?
Well, about the overclocking, there is NO way you can damage any of your hardware, IF you
know what you are doing (and have the right parts). Your first mistake, was buying an Intel, your
second mistake was trying to overclock it. There's a reason Intel locks its CPU's multiplyer
clock....

Also, depending on your motherboard, im guessing Intel based, so it probably doesn't have 1 of
the double BIOS, or overclock locking system-things so, out of luck probably.

Dude what the fuck are you talking about? Im not an Intel fan but everything you've mentioned
there is total crap.

So overclocking doesn't damage your CPU. Well go in your BIOS, Increase the CPU voltage to
the maximum, increase the FSB to the maximum and lets see how long your CPU lasts. Intel with
there C2D are well in front of AMD and its AM2 socket. Theres no denying it. The P4D series is
well known for its overclock capabilities. You go and buy an AMD 5600+ X2 which is rated at
2.8Ghz by default and try to overclock it to 3.8Ghz and have it stable. Did you know that AMD lock
there multipliers aswell? They of course did this for a reason, right?

Frost, read dave's second post. Just in case you can't see it

Quote:I've tried resetting the CMOS via the battery and jumpers to no avail

Subject: Re: System failure.
Posted by Matix101 on Mon, 15 Oct 2007 19:18:27 GMT
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Atleast you guys can overclock, my computer was bought from a store which uses a BIOS that
prevents overclocking.

Subject: Re: System failure.
Posted by sadukar09 on Mon, 15 Oct 2007 19:20:37 GMT
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Quote:The Prescott CPU is a socket 478
Eh? It's a LGA Socket 775 :V C2D, Celeron D, Pentium D are all the same sockets.

Subject: Re: System failure.
Posted by Dave Anderson on Mon, 15 Oct 2007 19:47:15 GMT
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Go read up on your technology. LGA775 socket Prescotts are the second generation redesigned from the 478 socket. Don't let improper information slither off that tongue; it will not help anyone.

Anyway here are a few updates where I will refer to my working test motherboard as 'the Dell motherboard' and my unknown state motherboard as 'my motherboard'.

I swapped the CPU into that old Dell motherboard along with a 256MB stick of generic memory and my IDE hard disk with XP. The system boots up and I can access the BIOS and even the XP Advanced Selection screen. However, when I try to boot up XP (Start Windows Normally...) it tries to load and BSOD. It reboots too quick for me to read the BSOD but its a stop 0x0000007B message.

I can't tell if the CPU is damaged or my motherboard. I would assume its my CPU considering I may had jumped the tuner too much. Going from 21x167 -> 21x177 -> 21x181 -> 21x189 -> DEATH. Seems like I would have damaged the CPU because I afterwards I read that you're only supposed to tune it 2 clicks at a time.

On another note, my motherboard does respond to the power switches. If I have the processor in I can hold the power switch in for 4 seconds and it will shutdown. Otherwise without the processor in I have to switch the PSU off and back on.

Subject: Re: System failure.
Posted by sadukar09 on Mon, 15 Oct 2007 19:58:23 GMT
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Quote:A shift in socket type (from Socket 478 to LGA775)
Ah, I thought it was done BEFORE Prescott was released. (Wikipedia)

Subject: Re: System failure.
Posted by trooprm02 on Mon, 15 Oct 2007 21:24:39 GMT
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Wow, some people think they know something....

1)I have a Socket 939 CPU, if I have to explain why its the best current socket, your already wasting my time.
2)I have a AMD 4000+, standard is 1.4v, and 2.2GHZ, Im running it @ 3GHz right now, on almost stock cooling. Ive jumped the voltage to it to about 1.6-1.7, when I ran it once @ 1.9, it locked up, I loaded up the 2nd bios, unloaded the change, reset to default and I was back. Even I had set the v to 3.0, NOTHING would have happened.

I wasn't exactly sure of this when I first was overclocking my system, but apparently, my motherboard (AMD based ASUS), can detect overvolting, before my PSU even sends anything to my actually CPU.

Intel DOES lock its multiplyer cores, I didn't know it doesnt for Extreme editions (or apperently it doesnt). Don't believe im running @ 3Ghz?

http://www.neoseeker.com/Articles/Hardware/Reviews/amd64-4000/11.html

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Subject: Re: System failure.
Posted by cmatt42 on Mon, 15 Oct 2007 21:42:38 GMT
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troop, you play with a pocket calculator equivalient of a socket? When you want to leave your Amish ways, just let us know.

Subject: Re: System failure.
Posted by trooprm02 on Mon, 15 Oct 2007 21:45:11 GMT
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cmatt42 wrote on Mon, 15 October 2007 16:42troop, you play with a pocket calculator equivalient of a socket? When you want to leave your Amish ways, just let us know.

is this some kind of sick joke?

Subject: Re: System failure.
Posted by Dave Anderson on Mon, 15 Oct 2007 21:50:42 GMT
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Troop, go argue your point somewhere else. This topic is not the place for it.

Subject: Re: System failure.
Posted by Caveman on Mon, 15 Oct 2007 21:51:19 GMT
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trooprm02 wrote on Mon, 15 October 2007 22:24Wow, some people think they know something....

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http://www.neoseeker.com/Articles/Hardware/Reviews/amd64-4000/11.html

Firstly, that doesn't prove YOUR cpu is running at 3Ghz and secondly they got theres to 2.7Ghz on stock cooling and that was over heating, yet you can go higher. Sure troop.

Edit: I have a AMD 4000+ SanDiego core and my clock speed is 2.4Ghz so I don't know why your default is 2.2Ghz.

Subject: Re: System failure.
Posted by sadukar09 on Mon, 15 Oct 2007 22:14:44 GMT
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Socket AM2 CPUs have different clock speeds than Socket 939s. (i.e. Same PR Ratings but different Clock speed.)

Subject: Re: System failure.
Posted by Caveman on Mon, 15 Oct 2007 22:19:18 GMT
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sadukar09 wrote on Mon, 15 October 2007 23:14Socket AM2 CPUs have different clock speeds than Socket 939s. (i.e. Same PR Ratings but different Clock speed.)

If you're referring to me then my socket is also 939.

Sorry to hijack your thread Dave. I'll try to stfu

Subject: Re: System failure.

Posted by Dave Anderson on Tue, 16 Oct 2007 00:38:04 GMT
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I expect nothing less from these forums, its just the behavior of them. Don't sweat it. I am going to have a new motherboard on the way (a RMA replacement), but first I have to call ASUSTek and ask for a product box... talk about geekdom.

I think two things happened. 1. The processor was damaged. 2. The BIOS on the motherboard was damaged. Regarding #2, I was using a BETA BIOS, but I'm not sure if that had anything to do with it.

So I guess for now I just have to sit and wait until I get the new replacement.

Subject: Re: System failure.
Posted by Jecht on Tue, 16 Oct 2007 01:38:01 GMT
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At least you'll be all set without any extravagant costs(Hopefully none including shipping). I had pretty bad Motherboard woes once. Abit sent me two lemons of their KN9 SLI series. Second RMA was a charm though . It was a new board at the time and it was probably just a bad lot.

Subject: Re: System failure.
Posted by Dave Anderson on Tue, 16 Oct 2007 02:59:36 GMT
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Yeah, Newegg says anything I have under the 1-year standard warranty gets RMA'd at no cost to me. I just have to pay to ship it to them, but that's no big deal. It is a complete bummer when you RMA something and the replacement you get is DOA as well. On another note, it seems as though I am going to go RMA crazy.. BFG wants me to RMA my 7800GS. I've been talking to them about the video problems it has in Vista and they want me to try a replacement. I guess I'm lucky that its under the Newegg 1-year standard warranty as well.

Subject: Re: System failure.
Posted by Chuck Norris on Tue, 16 Oct 2007 07:03:39 GMT
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Ignoring all of the off topic stuff, I noticed you said you got a 0x0000007B BSOD. I got that on my other computer a while back alot. It's due to either a bad boot volume, sometimes a boot virus, a rarely even a bad IDE cable, but the point is it's a software and/or boot sector problem. It's not an indicator of a bad CPU, so your CPU seems fine. That would point to the motherboard, so I'm guessing your new motherboard will fix it, unless you got unlucky and both are bad, but the CPU working in the Dell says otherwise. Keep us posted when you get the new motherboard.

Subject: Re: System failure.
Posted by CarrierII on Tue, 16 Oct 2007 07:11:41 GMT
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0x0000007B happens when Windows tries to find devices under it's saved set of PnP enumarations and can't. That would happen in this case, due to the chipsets being different. You can migrate a hard disk with XP on it between any Intel chipset, AFAIK (Try it!)

Subject: Re: System failure.
Posted by Dave Anderson on Tue, 16 Oct 2007 13:43:11 GMT
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I'm going to try to boot from a CDROM to see if a Windows install will at least work as well as try some different IDE cables. Though, my XP disk may be corrupted due to Vista's new boot loader that seems to interfere with everything.

Subject: Re: System failure.
Posted by mrpirate on Tue, 16 Oct 2007 15:09:01 GMT
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holy shit troop is such an idiot