

# Boot loop & ACPI BSOD's with SP3 with ASUS mobo

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*Source:*

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.help\\_and\\_support/2008-07/msg00997.htm](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.help_and_support/2008-07/msg00997.htm)

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- *From:* [UKnowWho@xxxxxxxxxxxxxx](mailto:UKnowWho@xxxxxxxxxxxxxx)
  - *Date:* Mon, 14 Jul 2008 13:08:24 -0500
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Strangest thing here. After reading some other forums on the ASUS boards, I came across this possible fix; at least it worked for me.

Here is the quote from the forum: "Don't disable ACPI. First clear CMOS and then go in Bios and disable APM and serial port. Don't disable parallel port.

If you try to install Win XP SP3 a USB drive or a USB stick on a USB port may solve the problem."

In short, I went into BIOS setup, did NOT disable the parallel port, did NOT clear CMOS, and only disabled the APM, rebooted, and VOILA! It works! No more "boot loop" or BSOD. BTW, I had been using the trick of plugging in my USB Blackberry on boot up and that was working too.

I don't actually know what is happening when I disable the APM in the BIOS. I still have ACPI compliant computer, according to Device Manager. So far I haven't seen any adverse effects yet, but it's only been a few hours, and 3 reboots.

Previous to this "fix" if I connected my Blackberry cell phone to the USB port before boot up, then the system boots normally.

On Sat, 26 Apr 2008 18:11:00 -0700, prince1142003  
<prince1142003@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

The ACPI 2.0 BSOD is a 0x7F stop error with a 0D parameter.  
The ACPI 3.0 BSOD just says the BIOS is not fully ACPI-compatible.

I've already checked and rechecked every system component, including stress testing the RAM for errors. The max temperature on any system component is 60°C on the GPU. The max CPU temperature is never above 45°C. I've cleaned the case for dust and checked to ensure all system fans are working. Since my PC works fine with ACPI 1.0, I doubt it's the power supply's fault.

Basically, what I'm wondering is if I need to make any driver-level changes within Windows if I change the ACPI feature set version in the BIOS.

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"Gerry" wrote:

Without the full Stop Error I can only provide the following.

Background information on Stop Error message  
<http://msdn2.microsoft.com/en-us/library/ms795478.aspx>

0x0000007F: UNEXPECTED\_KERNEL\_MODE\_TRAP

One of three types of problems occurred in kernel-mode: (1) Hardware failures. (2) Software problems. (3) A bound trap (i.e., a condition that the kernel is not allowed to have or intercept). Hardware failures are the most common cause (many dozen KB articles exist for this error referencing specific hardware failures) and, of these, memory hardware failures are the most common.

Source: <http://aumha.org/a/stop.htm>

In essence you have two areas where the problem could be. A software problem which could be difficult to determine and a hardware problem where it is easier to eliminate some of the possibilities. I gave a link regarding trouble shooting hardware:

[http://www.elephantboycomputers.com/page2.html#Hardware\\_Tshoot](http://www.elephantboycomputers.com/page2.html#Hardware_Tshoot)

Dust inside the computer casing can cause overheating and result in this type of error. Take the casing off and use an Air Duster to clean. Also check that all fans are working.

Try HD Tune (freeware) as you can see the SMART information relating to the drive etc.

Download and run it and see what it turns up.  
<http://www.hdtune.com/>

Select the Info tabs and place the cursor on the drive under Drive letter and then double click the two page icon ( copy to Clipboard ) and copy into a further message.

Select the Health tab and then double click the two page icon ( copy to Clipboard ) and copy into a further message. Make sure you do a full surface scan with HD Tune.

You need then to test the RAM. Please refer to the link on how to do this.

If these measures do not identify the cause of the problem you would be best to seek professional help. The power supply unit can only be tested by swapping in a replacement and most home users do not have a spare one to use. The software diagnosis is beyond the capabilities of most users.

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Hope this helps.

Gerry

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FCA

Stourport, England

Enquire, plan and execute

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prince1142003 wrote:

Every time I switch my BIOS to ACPI 3.0, I get a BSOD saying my PC isn't ACPI-compatible. I've also noticed that when using ACPI 2.0, I get BSODs when resuming from hibernation. These BSODs have the generic 0x7F stop error.

My System:

AMD Athlon64 X2 4600+

ASUS M2R32-MVP

2GB Corsair DDR2 RAM

Windows XP Professional SP2

Anyone know what's wrong, and what I could do to fix these errors?