

Re: Bug: get EXT3-fs error Allocating block in system zone

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- *From:* Andrew Morton <akpm@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 6 Dec 2007 16:25:00 -0800
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On Tue, 04 Dec 2007 21:54:57 +0100

Marco Gatti <marco@xxxxxxxxxxxxxxxxxxxxxx> wrote:

Hello,

I have a brand new Fujitsu-Siemens Celsius W360 pc with a FSC D2587-A1 motherboard. It has a intel q35 chipset. In bios I have the sata controller in pure AHCI mode (legacy pata disabled). On windows everthing works fine. So mem is ok, tested with memtest+ overnight. No failures with hdd or motherboard on windows. There's latest avaiable BIOS version on the machine.

Specific system data see below.

I first tried self compiled kernel 2.6.24-rc3 and now at the end 2.6.23.9 to have a stable version. I got compiled e1000 module for network card onboard under latest gentoo stable version.

I first got acpi failure on boot, pci=nommconf worked first time, than I patched with q35.pci.patch from http://bugs.gentoo.org/show_bug.cgi?id=198810 and boot worked without nommconf.

<http://bugs.gentoo.org/attachment.cgi?id=135761&action=view>

It disables PCI BARs during sizing. ISTR Linus opining that this was the wrong thing to do?

ISTR him having opinions on mmconfig too ;)

We should not require people to use obscure boot options to get their machines working.

But the effect is under every circumstances described above that I got after an unspecific time EXT3-fs errors. I tried to use different

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partitions, one for root and data, got errors on both.

Dec 3 15:05:34 adira EXT3-fs error (device sdb4): ext3_new_block:
Allocating block in system zone – blocks from 74907667, length 1

I tried different hard disks, different sizes of partitions, always the same issue. I always saw that mem is fully cached (I have 8GB RAM!). After that, the ext3 has severe faults fsck.ext3 repaired them, but an amount of data was lost.

I also tried with different file systems (reiserfs3, xfs), also kernel trace errors, so I got back to ext3.

Can't believe that it's a pure fs-error. Is it an ahci.c issue? Or a problem with acpi and memory management?

At a guess I'd say the disk system is being bad. it might be a hardware failure too – it's a new system.

Any ideas for fixing this?

Nope, sorry.

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