

Re: 2.6.23-rc1: no setup signature found...

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-07/msg11460.html>

- *From:* Borislav Petkov <bbpetkov@xxxxxxxx>
 - *Date:* Thu, 26 Jul 2007 18:30:53 +0200
-

On Thu, Jul 26, 2007 at 08:19:08AM -0700, H. Peter Anvin wrote:

Xudong Guan wrote:

On 13:26(+0200) Tue 24 Jul, Borislav Petkov wrote:

2.6.23-rc1 won't boot on my Asus M6N laptop and the last thing it shows after loading grub is "No setup signature found...", which, imho, comes from arch/i386/boot/header.S. I tried printing out the value of setup_sig like so

I hit the same error message with v2.6.23-rc1-171-ge4903fb. No problem with v2.6.21-3770-g01e73be. Seems there has been some cleanup of the i386/boot code. Anyone can give a quick clue, or should I do a bisect?

I just finished bisecting between v2.6.22..v2.6.23-rc1 (13 kernels compiled, whew...) and Peter you are right, here's the evildoer:

4fd06960f120e02e9abc802a09f9511c400042a5 is first bad commit
commit 4fd06960f120e02e9abc802a09f9511c400042a5
Author: H. Peter Anvin <hpa@xxxxxxxx>
Date: Wed Jul 11 12:18:56 2007 -0700

Use the new x86 setup code for i386

This patch hooks the new x86 setup code into the Makefile machinery. It also adapts boot/tools/build.c to a two-file (as opposed to three-file) universe, and simplifies it substantially.

Signed-off-by: H. Peter Anvin <hpa@xxxxxxxx>
Signed-off-by: Linus Torvalds <torvalds@xxxxxxxxxxxxxxxxxxxx>

:040000 040000 6560eb5b7e40d93813276544bced8c478f9067f5
fe5f90d9ca08e526559815789175602ba2c51743 M arch

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The bisect will almost guaranteed show a change at the change to the new setup code. The message means that the setup code wasn't loaded correctly into memory; the big question is *why*.

What distro/version of grub are you running?

Debian unstable

I'm wondering if there are some old version of grub out there which did the "load four sectors" way-anciently-obsolete crap; the other possibility that comes to mind is setting up the stack in an invalid manner.

grub version:

```
[boris@gollum:18:17:27:-> apt-cache show grub
Package: grub
Priority: optional
Section: admin
Installed-Size: 708
Maintainer: Grub Maintainers <pkg-grub-devel@xxxxxxxxxxxxxxxxxxxxxxxx>
Architecture: i386
Version: 0.97-29
Depends: libc6 (>= 2.5-5), libncurses5 (>= 5.4-5)
Suggests: grub-doc, mdadm
Filename: pool/main/g/grub/grub_0.97-29_i386.deb
Size: 366884
MD5sum: 2da7a5942db06eaba046dff4615bcce9
SHA1: 7f4da793da209d011ce94fceebaebe0e5f08790f
SHA256: 2596782c08f1f7365e9935f687fef74c67d8702503188f22448db9f0ac98e18e
Description: GRand Unified Bootloader
...
```

so any ideas/test patches for debugging this are welcome.

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Regards/Gruß,
Boris.

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