

Re: Yet more display troubles with 2.6.15-rc5-mm2

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg03554.html>

- *From:* Jesper Juhl <jesper.juhl@xxxxxxxxx>
 - *Date:* Mon, 12 Dec 2005 19:31:23 +0100
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On 12/12/05, Antonino A. Daplas <adaplas@xxxxxxxxx> wrote:

> Jesper Juhl wrote:
>> In addition to the problem I reported earlier about 2.6.15-rc5-mm2
>> hanging at boot with vga=791 I've just discovered another problem.
>>
>> If I boot with vga=normal (which is apparently all that works), then I
>> can boot up to a nice plain text login and run startx, but if I then
>> switch away from X back to a text console with ctrl+alt+f6 or if I
>> shut down X, then I'm presented with a completely garbled text mode
>> screen – flashing coloured blocks all over, random bits of text at
>> random locations etc.
>>
>> Also, when starting X, just before the cursor appears I normally just
>> have a black screen. With this kernel I first get a short blink of a
>> garbled graphics mode screen with either what looks like just random
>> pixels or sometimes with something that looks like a mangled snapshot
>> of my text mode console, or if I kill X with ctrl+alt+backspace and
>> then start it again (the garbled text mode console does work, although
>> I'm glad I know how to touch type ;) then I sometimes get what looks
>> like a snapshot of my previous X session with random pixels on top.
>> The garbled graphical screen stays for just a blink of an eye, then
>> it's replaced with the normal black screen and the mouse cursor.
>>
>> 2.6.15-rc5-git1 works perfectly without these issues.
>
> I cannot reproduce your problem...
>

It's completely reproducible here when booting the kernel with vga=normal and then starting X with the attached xorg.conf using this graphics card :

```
# lspci -vxx
...
01:05.0 VGA compatible controller: Matrox Graphics, Inc. MGA Parhelia
AGP (rev 03) (prog-if 00 [VGA])
Subsystem: Matrox Graphics, Inc. Parhelia 128Mb
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop-
ParErr- Stepping- SERR- FastB2B-
```

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Status: Cap+ 66Mhz+ UDF- FastB2B+ ParErr- DEVSEL=medium
>TAbort- <TAbort- <MAbort- >SERR- <PERR-
Latency: 64 (4000ns min, 8000ns max), cache line size 08
Interrupt: pin A routed to IRQ 4
Region 0: Memory at e8000000 (32-bit, prefetchable) [size=128M]
Region 1: Memory at e5000000 (32-bit, non-prefetchable) [size=8K]
Expansion ROM at e7fe0000 [disabled] [size=128K]
Capabilities: [dc] Power Management version 2
Flags: PMEClk- DSI+ D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [f0] AGP version 2.0
Status: RQ=32 Iso- ArqSz=0 Cal=0 SBA+ ITACoh- GART64-
HTrans- 64bit- FW+ AGP3- Rate=x1,x2,x4
Command: RQ=1 ArqSz=0 Cal=0 SBA- AGP- GART64- 64bit-
FW- Rate=<none>
00: 2b 10 27 05 07 00 b0 02 03 00 00 03 08 40 00 00
10: 08 00 00 e8 00 00 00 e5 00 00 00 00 00 00 00 00
20: 00 00 00 00 00 00 00 00 00 00 00 00 2b 10 40 08
30: 00 00 fe e7 dc 00 00 00 00 00 00 00 04 01 10 20

note that if I use a fb console everything is fine, only when booting initially with vga=normal is there a problem.

> If set, can you comment out Load "dri" and/or Load "glx" from your
> X config?

>

Both were set. Commenting out both didn't change a thing.

> Can you try another X driver, ie, vesa?

>

I'm already using the vesa driver. It seems to be the only Open Source driver that'll work with this card, so i don't have any other to try.

> Also, these 2 patches are present in mm but not in Linus' tree. Can
> you check which of these are the culprit, if any?

>

>

<http://kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.15-rc2/2.6.15-rc2-mm1/broken-out/vgacon-fix-doub>

>

<http://kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.15-rc2/2.6.15-rc2-mm1/broken-out/vgacon-workarou>

>

Since this is 2.6.15-rc5-mm2 I grabbed these two instead:

<http://kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.15-rc5/2.6.15-rc5-mm2/broken-out/vgacon-fix-doub>

<http://kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.15-rc5/2.6.15-rc5-mm2/broken-out/vgacon-workarou>

Reverting both patches didn't fix the problem. Starting X then switching back to a text mode console still results in a completely

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messed up text console. X is fine, I can switch back to it no problem,
but text consoles go bye-bye...

Would there be any point in trying a kernel with just one of the
patches reverted?

--

Jesper Juhl <jesper.juhl@xxxxxxxx>

Don't top-post <http://www.catb.org/~esr/jargon/html/T/top-post.html>

Plain text mails only, please <http://www.expita.com/nomime.html>

Attachment: xorg.conf

Description: Binary data