

Linux–Kernel: Odd little line–break problem (on fb console) during boot with recent kernels.

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Source: <http://linux.derkeiler.com/Mailing–Lists/Kernel/2005–01/6884.html>

From: Jesper Juhl (juhl–lkml_at_dif.dk)

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To: linux–kernel@vger.kernel.org

I'm using a vesafb framebuffer console, and recently I've noticed an odd little issue. During boot recent kernels (at least 2.6.11–rc1–bk4 and later – I don't have earlier kernels to test atm) will break the line

```
vesafb: framebuffer at 0xf0000000, mapped to 0xe0880000, using 937k, total 65536k
```

into two lines like this

```
vesafb: framebuffer at 0xf0000000, mapped to 0xe0880000, using 937k, total 65536k
```

the last two chars "6k" are put on a line by themselves. This is odd since there are both shorter and longer lines printed to the screen during boot, so it's not a "wrap at right edge of screen" thing. It's also odd since the code that prints this text is

```
from drivers/video/vesafb.c :
```

```
    printk(KERN_INFO "vesafb: framebuffer at 0x%lx, mapped to 0x%p, "
           "using %dk, total %dk\n",
```

That simple printk should result in a nice single line of output.

If I take a look at the boot messages with dmesg after boot, then the message is printed as a single line as expected.

I see nothing in the source for printk, vprintk or vsnprintf that would cause the line to be split.

No other messages during boot seem to get split in odd places, this is the only one.

So I'm wondering, what is causing this odd behaviour?

Some info that might be relevant:

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My graphics card is a ASUS V8200 Deluxe (nvidia geforce3) :

01:05.0 VGA compatible controller: nVidia Corporation NV20 [GeForce3] (rev a3) (prog-if 00 [VGA])

Subsystem: Asustek Computer, Inc. AGP-V8200 DDR

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66Mhz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 64 (1250ns min, 250ns max)

Interrupt: pin A routed to IRQ 4

Region 0: Memory at ec000000 (32-bit, non-prefetchable) [size=16M]

Region 1: Memory at f0000000 (32-bit, prefetchable) [size=64M]

Region 2: Memory at ef800000 (32-bit, prefetchable) [size=512K]

Expansion ROM at ef7f0000 [disabled] [size=64K]

Capabilities: [60] 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: [44] 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>

My lilo version is 22.5.9.

The video mode I use is 1024x768x64k (vga=791 in lilo.conf - just for kicks I tried booting with vga=771, but that doesn't change anything).

My distribution is Slackware Linux 10.0 (upgraded to -current as of today).

Output from scripts/ver_linux is :

If some fields are empty or look unusual you may have an old version.

Compare to the current minimal requirements in Documentation/Changes.

Linux dragon 2.6.11-rc2 #1 Sat Jan 22 23:04:44 CET 2005 i686 unknown
unknown GNU/Linux

Gnu C 3.4.2

Gnu make 3.80

binutils 2.15.92.0.2

util-linux 2.12p

mount 2.12p

module-init-tools 3.1

e2fsprogs 1.35

jfsutils 1.1.6

reiserfsprogs 3.6.18

reiser4progs line

xfsprogs 2.6.13

pcmcia-cs 3.2.8

quota-tools 3.12.

PPP 2.4.2

nfs-utils 1.0.7

Linux C Library 2.3.3

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Dynamic linker (ldd) 2.3.3

Linux C++ Library 6.0.2

Procps 3.2.3

Net-tools 1.60

Kbd 1.12

Sh-utils 5.2.1

udev 050

Modules Loaded snd_pcm_oss snd_mixer_oss via_rhine snd_emu10k1

snd_rawmidi snd_seq_device snd_ac97_codec snd_pcm snd_timer snd_page_alloc

snd_util_mem snd_hwdep evdev agpgart

If you would like me to test older kernel versions to determine when tis began to happen, then just let me know. If there's any other piece of info you need, ask and I'll provide it.

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Jesper Juhl

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