

Re: [Bug 10843] Display artifacts on XOrg logout with PAT kernel and VESA framebuffer

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-06/msg09545.html>

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- *From:* Suresh Siddha <[suresh.b.siddha@xxxxxxxxxx](mailto:suresh.b.siddha@xxxxxxxxxx)>
  - *Date:* Tue, 24 Jun 2008 16:22:52 -0700
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On Mon, Jun 23, 2008 at 05:38:59AM -0700, Frans Pop wrote:

On Sunday 15 June 2008, Siddha, Suresh B wrote:

Frans Pop wrote:

On Saturday 14 June 2008, Rafael J. Wysocki wrote:

Bug-Entry :  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=10843](http://bugzilla.kernel.org/show_bug.cgi?id=10843)  
Subject : Display artifacts on XOrg logout  
with PAT kernel  
and VESA framebuffer  
Submitter : Frans Pop  
<[elendil@xxxxxxxxxx](mailto:elendil@xxxxxxxxxx)>  
Date : 2008-05-31 14:04 (15 days old)  
References :  
<http://lkml.org/lkml/2008/6/7/206>

Yes. See also: <http://lkml.org/lkml/2008/6/13/159>

Frans, With or without pat, in the recent kernels (like 2.6.26-rc4/rc5 etc), ioremap() uses UC- and PCI mmap of /sys/devices/pci.../resource (used by X) uses UC-

And fb\_mmap() also uses UC-.

It's interesting that you don't see this artifact with "nopat". Essentially with or with out pat enabled, we use the same memory attributes. So depending on the MTRR setup (set by X server), effective memory attribute across different mappings should be same (which is UC- or WC with mtrr).

Any progress on this issue? It's still there with -rc7, but I doubt that comes as a surprise.

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Has anyone tried to reproduce this? I would think that should be trivial.

Just as a summary:

- Intel 82945G/GZ graphics [8086:2772] (ICH7 based system)
- FB\_VESA=y, FRAMEBUFFER\_CONSOLE=y
- boot with vga=791
- Log in to X and KDE; I do need to really log in there are no artifacts if I exit X from the kdm login dialog
- artifacts show on logout

I doubt it's KDE related or even related to my specific graphics card.

It may well be related to what is or has been displayed on the display before logging out, so running some apps may make sense. Seems like I do see remnants of for example aptitude (Debian apt frontend) after I've run it in an X term (KDE's konsole).

FJP, We will try to reproduce this and getback. Your earlier responses did not give many clues.

thanks,  
suresh

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