

coreboot - Bug #80

Screen garbled in Seabios, does not boot, Kernel panic (X60)

10/15/2016 06:41 PM - Daniel Kulesz

Status:	New	Start date:	10/15/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
I tried updating from Coreboot-4.4 to current HEAD on my Thinkpad X60. The build went fine, but afterwards:			
<ul style="list-style-type: none">• screen was partly disorted / garbled (big green artifacts in the bottom part)• first attempt to boot resulted in kernel panic• could get machine to boot only after rebooting and then it booted normally			
Downgraded now to 4.4, and things are working okay again.			

History

#1 - 10/21/2016 09:24 PM - Daniel Kulesz

I had the same issue with the official 4.5 release. Then I switched off the following option:

Display => Keep VESA framebuffer

Since then, everything is back to normal. However, in 4.4 it used to work with the option enabled (just double-checked), so I would consider this a regression.

#2 - 10/22/2016 08:09 PM - Arthur Heymans

Could you see if commit 9c5fc62f9 "nb/i945/gma.c: use IS_ENABLED instead of #if, #endif" was in your git tree that you flashed? This breaks native graphic init, but is fixed in <https://review.coreboot.org/#/c/17075/>.

#3 - 11/18/2016 12:04 PM - Daniel Kulesz

Sorry, didn't see your comment. Since the commit is merged, I will try with the current master and report back.

#4 - 11/18/2016 03:41 PM - Daniel Kulesz

- File IMG_20161118_161249.jpg added

I retried in master as of cd2afc0df034670a83479aded514b22b99124cf5. Here is what changed:

- again, first attempt to boot after flashing resulted in kernel panic (blinking scroll lock led)
- the issue that the device does not boot up at the first time got better. Lockup during boot happens only occasionally but is not easily reproducible.
- however, the device sometimes does not init correctly (empty screen, backlight on)
- when using the "Keep VESA framebuffer" option, the screen is still garbled during bootup, and also when booting into text-based Payloads such as meminfo or memtest86+. Memtest86+ itself does not report any memory issues (when running coreboot without the VESA option since no output is visible when activated).

I am attaching pictures for some of the symptoms.

#5 - 11/18/2016 03:42 PM - Daniel Kulesz

- File *IMG_20161118_132934.jpg* added

- File *IMG_20161118_142310.jpg* added

#6 - 11/18/2016 03:42 PM - Daniel Kulesz

- File *IMG_20161118_161249.jpg* added

- File *IMG_20161118_161220.jpg* added

#7 - 11/18/2016 03:43 PM - Daniel Kulesz

Btw.: It's a X60s, not a regular X60.

#8 - 11/19/2016 06:11 PM - Arthur Heymans

I don't seem to have these issues on my x60. Linux can be unhappy if gpu was not initiated properly.

Could you include a cblog?

Would also be nice if you could bisect this issue, if you say this is a regression.

#9 - 04/14/2017 12:42 PM - Daniel Kulesz

I tried on current master, and there the issue is still present. I am trying to recover from this issue - until then, I will not be able to provide cblog.

#10 - 04/14/2017 01:02 PM - Daniel Kulesz

- File *config.txt* added

- File *config.short.txt* added

- File *cbfs.txt* added

- File *coreboot_console.txt* added

- File *coreboot_timestamps.txt* added

- File *kernel_log.txt* added

- File *payload_config.txt* added

- File *revision.txt* added

- File *rom_checksum.txt* added

Here are the logs.

#11 - 04/14/2017 01:04 PM - Daniel Kulesz

One more thing I noticed in the VESA "broken" Mode:

If I hit "Esc" in Seabios after cold boot and choose the boot device, the system will always hang. If I do not hit Esc but let it continue booting, the Linux kernel will succeed in initializing the graphics most of the time. Some timing issue?

Files

config.txt	18.2 KB	10/15/2016	Daniel Kulesz
IMG_20161118_161249.jpg	177 KB	11/18/2016	Daniel Kulesz
IMG_20161118_132934.jpg	192 KB	11/18/2016	Daniel Kulesz
IMG_20161118_142310.jpg	168 KB	11/18/2016	Daniel Kulesz
IMG_20161118_161220.jpg	127 KB	11/18/2016	Daniel Kulesz
IMG_20161118_161249.jpg	177 KB	11/18/2016	Daniel Kulesz
cbfs.txt	1020 Bytes	04/14/2017	Daniel Kulesz
config.short.txt	444 Bytes	04/14/2017	Daniel Kulesz

coreboot_console.txt	36 Bytes	04/14/2017	Daniel Kulesz
config.txt	18.8 KB	04/14/2017	Daniel Kulesz
coreboot_timestamps.txt	39 Bytes	04/14/2017	Daniel Kulesz
payload_config.txt	1.59 KB	04/14/2017	Daniel Kulesz
revision.txt	173 Bytes	04/14/2017	Daniel Kulesz
kernel_log.txt	61.1 KB	04/14/2017	Daniel Kulesz
rom_checksum.txt	53 Bytes	04/14/2017	Daniel Kulesz