

Packages - Bug #2543

[linux-libre] Kernel 5.3.8 fails to boot on Thinkpad X220, 5.3.7 works fine

2019-11-09 07:26 PM - dllud

Status: fixed	% Done: 0%
Priority: bug	
Assignee: Megver83	
Category:	
Description	
Hi,	
linux-libre 5.3.8 does not boot on a Thinkpad X220. I am attaching the relevant part of the syslog. Here's the more evident errors:	
Nov 09 18:41:06 x220 kernel: general protection fault: 0000 [#1] PREEMPT SMP PTI [...]	
Nov 09 18:41:06 x220 kernel: BUG: kernel NULL pointer dereference, address: 0000000000000030 [...]	
Nov 09 18:41:06 x220 kernel: Oops: 0000 [#2] PREEMPT SMP PTI	
Downgrading to 5.3.7 fixed this.	
I also found it strange that the 5.3.8 kernel plus headers occupies almost 30 MiB less than 5.3.7.	
Related issues:	
Related to Packages - Bug #2541: [linux-libre] Module mac80211 no longer loads.	info needed
Related to Packages - Bug #2553: linux-libre-5.3.8-gnu-1 kernel does not load...	fixed

History

#1 - 2019-11-11 12:44 AM - bill-auger

- Assignee set to Megver83

#2 - 2019-11-11 01:27 AM - dllud

Just tested linux 5.3.8.1-1 from Arch and it boots fine. Seems something related to linux-libre. Should I report this upstream?

#3 - 2019-11-12 01:47 AM - Megver83

Well, let's say that -lts kernel works. Have you tested other stable kernels? -hardened or -pck? have you made any research on your issue?

#4 - 2019-11-12 01:11 PM - dllud

Thanks for looking into it Megver83.

Yes, linux-libre-lts works, as well as all linux-libre versions up to, and including, 5.3.7.

linux-libre-pck 5.3.8 does not boot. I get the same exact error pasted above.

Strangely linux-libre-hardened 5.3.8 boots and seems to work fine.

I've tested each kernel multiple times on different hardware configurations (e.g. docked/undocked). Results were consistent.

I will now give a shot to [Jason Self's linux-libre builds](#) on a Debian Live.

#5 - 2019-11-25 07:49 PM - bill-auger

- Related to Bug #2541: [linux-libre] Module mac80211 no longer loads. added

#6 - 2019-11-25 07:49 PM - bill-auger

- Related to Bug #2553: linux-libre-5.3.8-gnu-1 kernel does not load the ath9k driver on coreboot Lenovo thinkpad x230 added

#7 - 2019-11-26 01:51 AM - Megver83

just released linux-libre 5.3.13, please try it

#8 - 2019-11-26 04:33 AM - pavelsayekat

yep, 5.3.13 is booting clean on my coreboot thinkpad x230, thank you Megver83.

#9 - 2019-11-28 12:52 AM - Megver83

- *Status changed from unconfirmed to fixed*

#10 - 2019-12-01 04:43 PM - dllud

Hi,

Sorry for the delay. I was out of town and could not test this right away.
I can also confirm that 5.3.13 boots fine on my Thinkpad X220. Thanks Megver83!

Files

syslog	11.9 KB	2019-11-09	dllud
--------	---------	------------	-------