Packages - Bug #2824

[linux-libre]: 5.7.3+ makes external (USB) ath9k devices unusable

2020-07-02 01:49 AM - freemor

<table>
<thead>
<tr>
<th>Status: fixed</th>
<th>% Done: 0%</th>
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<tbody>
<tr>
<td>Priority: bug</td>
<td>Assignee: Megver83</td>
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<td>Category:</td>
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**Description**

Upgrading to linux-libre-5.7.6-1-x86_64 causes ath9k_htc to fail to initialize which causes the wifi adapter to not show up even though all modules are loaded.

see forum entry: [https://labs.parabola.nu/boards/5/topics/489](https://labs.parabola.nu/boards/5/topics/489)

For initial discussion on this.

**History**

#1 - 2020-07-02 02:07 AM - Megver83

- Priority changed from broken to bug
- Subject changed from linux-libre-5.7.6-1-x86_64 breaks various (all?) ath9k wifi modules to linux-libre-5.7.6-1-x86_64 makes external (USB) ath9k devices unusable

It's fine to me, I use an ath9k device:

```
$ lspci
02:00.0 Network controller: Qualcomm Atheros AR928X Wireless Network Adapter (PCI-Express) (rev 01)
    Subsystem: Foxconn International, Inc. Device e007
    Kernel driver in use: ath9k
    Kernel modules: ath9k

$ uname -r
5.7.6-gnu-1

$ lsmod | grep ath9k
ath9k 184320  0
```

However, it didn't work for my external USB dongle (TP-Link TL-WN722N)

Users will temporarily have to use linux-libre-lts

#2 - 2020-07-02 02:12 AM - bill-auger

ok i added a news post already, suggesting that everyone installs the linux-libre-lts - i have an ath9k USB thingy too - i will check it out

#3 - 2020-07-02 02:19 AM - Megver83

OK, so it looks like linux-libre-lts doesn't work too :

#4 - 2020-07-02 02:20 AM - bill-auger

thats bad news then - i guess the news post advice needs to be changed

#5 - 2020-07-02 08:03 AM - bill-auger

there are bug reports for this in arch and also in linux - it does not seem to be moving very fast though - the fix probably will not get in until at least 5.7.8

https://bugs.archlinux.org/task/67041
https://bugzilla.kernel.org/show_bug.cgi?id=208251

the patches which broke it entered in 5.7.3 - the last working version 5.7.2 is still on winston - maybe we should just pull 5.7.6 and publish 5.7.2 again

the last working LTS version is 5.4.44; but we do not have that anymore

or to fix 5.7.6, the bad commit has been identified, and it has been confirmed by several people , that reverting its changes fixes the problem

66026a80cb28745259e2fab1a4df55e65894f93 (ath9k: Fix general protection fault in ath9k_hif_usb_rx_cb)
#6 - 2020-07-02 09:30 AM - bill-auger
- Subject changed from linux-libre-5.7.6-1-x86_64 makes external (USB) ath9k devices unusable to [linux-libre]: 5.7.6 makes external (USB) ath9k devices unusable

i pulled linux-libre and linux-libre-headers 5.7.6 for all three arches, and re-released 5.7.2 - i left the linux-libre-docs, linux-libre-chromebook, and other kernel packages as they were

i thought that was best because the lts kernel has the same problem

#7 - 2020-07-02 02:11 PM - Megver83
linux-libre-hardened is still in 5.6, it's unaffected by this bug

maybe users should just use it in the meantime, rather than forcibly downgrading linux-libre

    the fix probably will not get in until at least 5.7.8

so let's wait, then :)
we did sth. similar when a linux version broke i686, we just waited for the next release

#8 - 2020-07-02 02:16 PM - Megver83
- Status changed from confirmed to forwarded upstream
- Subject changed from [linux-libre]: 5.7.6 makes external (USB) ath9k devices unusable to [linux-libre]: 5.7.3+ makes external (USB) ath9k devices unusable

#9 - 2020-07-02 11:57 PM - eliotime3000
I tested a few USB wifi antennas (one, with Atheros chipset and other, with Realtek). In the upstream version of the kernel, this bug has been present (at least, I have a PLC to use in my desktop PC). In my netbook with Arch, the Realtek blob does not be affected with the upgrade of the kernel.

#10 - 2020-07-11 01:15 AM - Megver83
Arch fixed this bug with this patch

I'm building linux-libre 5.7.8 right now

#11 - 2020-07-11 02:20 AM - Megver83
- Status changed from forwarded upstream to fixed

Just uploaded and tested it, it's solved now