

[SOLVED] Can't rebuild ch341.c driver in kernel

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[SOLVED] Can't rebuild ch341.c driver in kernel
by **sulpakneo** » Fri Sep 30, 2016 12:40 am

Hello! I'm from Kazakhstan (near Russia). I'm sorry for my very bad English. I'm asked in russian forums about this problem, but nobody is answered me. Please, help me!

I have a USB-COM converter. In system is registered as **1a86:7523 QinHeng Electronics HL-340 USB-Serial adapter** (if I type command "lsusb"). If I type the command dmesg | grep tty, system is required "usb 2-1.2: ch341-uart converter now attached to ttyUSB0".

I want to use a WINE for my applications, that used COM-ports. I resending this device to WINE "ln -s /dev/ttyUSB0 - /wine/dosdevices/com1". But is not working!

Five moths earlier I'm buyed other USB-COM adapter and this working. But this adapter from other vendor. I'm read about this trouble from github about this USB-COM adapter - 'This problem is fixed in this patch, please follow nest instructions'.

CODE: SELECT ALL

```
sudo apt-get source linux-source-3.19.0 linux-headers-${uname -r}
cd /tmp
tar -xjf /usr/src/linux-source-3.19.0.tar.bz2
cd /usr/src/linux-headers-3.19.0-32/
make oldconfig
make prepare
make scripts
cp -v /usr/src/linux-headers-${uname -r}/Module.symvers .
cp /lib/modules/${uname -r}/kernel/drivers/usb/serial/ch341.ko /lib/modules/${uname -r}/kernel/drivers/usb/serial/ch341.ko.orig
cd drivers/usb/serial
cp ch341.c ch341.c.orig
wget https://github.com/karlp/ch341-linux/raw/master/0001-usb-serial-ch341-Add-parity-support.patch
cat 0001-usb-serial-ch341-Add-parity-support.patch | patch -p4
patching file ch341.c
```

But is not working - Linux can't find source archive... on the first command and can't find file ch341.c

Last edited by sulpakneo on Sun Mar 26, 2017 2:58 pm, edited 2 times in total.

sulpakneo
Level 1


Posts: 5

Joined: Fri Sep 30, 2016 12:26 am

Re: Can't rebuild ch341.c driver in kernel
by **AlbertP** » Fri Sep 30, 2016 5:31 am

In the Software Sources program, please tick "Enable source code repositories" and try again.

Registered Linux User #528502

Albert J. P.

Feel free to correct me if I'm trying to write in Spanish, French or German.

AlbertP
Level 16

Posts: 6701

Joined: Sun Jan 30, 2011 12:38 pm

Location: Utrecht, The Netherlands


Re: Can't rebuild ch341.c driver in kernel
by **JeremyB** » Fri Sep 30, 2016 5:03 pm

Just post what kernel you have

CODE: SELECT ALL

```
uname -a
```

and I can upload the needed parts of the kernel source to my github site

JeremyB
Moderator @ Linux Mint

[Wireless Script](#)


JeremyB
Level 20

Posts: 12125

Joined: Fri Feb 21, 2014 8:17 am

Re: Can't rebuild ch341.c driver in kernel
by **sulpakneo** » Sun Oct 02, 2016 3:33 am

Great Thanks! When I type command "uname -a" system is required next words:

Linux kassa22109-8 3.19.0-32-generic #37-14.04.1-Ubuntu SMP Thu Oct 22 09:37:25 UTC 2015 i686 i686 GNU/Linux

My application is worked on NET.Framework 4.0. I'm using wine 1.6. Application is sending command to COM-port via WinAPI. And this fine worked with USB-COM converter other vendor, but when I buyed this new converter - wine is not viewed serial com-port... I've read on forums - this new USB-COM adapter is used asinchronical drivers... I don't know how I input new driver. I used Linux Mint 17.3 Rosa

sulpakneo
Level 1

Posts: 5

Joined: Fri Sep 30, 2016 12:26 am

Re: Can't rebuild ch341.c driver in kernel
by **JeremyB** » Sun Oct 02, 2016 6:53 am

<https://www.dropbox.com/s/u8ny4lvyxeh8v...ar.gz?dl=0>

That is the /drivers/usb/serial folder with the ch341 already patched from the 3.19.0 kernel
Backup the existing module if you haven't yet

CODE: SELECT ALL

```
cp /lib/modules/${uname -r}/kernel/drivers/usb/serial/ch341.ko /lib/modules/${uname -r}/kernel/drivers/usb/serial/ch341.ko.orig
```

You can download the source with

CODE: SELECT ALL

```
wget https://www.dropbox.com/s/u8ny4lvyxeh8v5u/serial.tar.gz
```

Extract it

CODE: SELECT ALL

```
tar -zxvf serial.tar.gz
```

Make sure you have the tools to build modules

CODE: SELECT ALL

```
sudo apt-get install linux-headers-generic build-essential
```

Change into the directory and copy a copy files in before you build

CODE: SELECT ALL

```
cd serial
```

CODE: SELECT ALL

```
cp /usr/src/linux-headers-$(uname -r)/.config ./
```

CODE: SELECT ALL

```
cp -v /usr/src/linux-headers-${uname -r}/Module.symvers .
```

Then build

CODE: SELECT ALL

```
make -C /lib/modules/${uname -r}/build M=$(pwd) modules
```

If it finishes without errors you can copy the new module

CODE: SELECT ALL

```
sudo cp ch341.ko /lib/modules/${uname -r}/kernel/drivers/usb/serial/ch341.ko
```

CODE: SELECT ALL

```
sudo rmmod ch341
```

CODE: SELECT ALL

```
sudo modprobe ch341
```

See if it works

JeremyB
Level 20

Posts: 12125

Joined: Fri Feb 21, 2014 8:17 am

Re: Can't rebuild ch341.c driver in kernel

by **sulpakneo** • Sun Oct 02, 2016 12:56 pm

Thank you very mach!!!!
Tomorrow I'm testing your method!!!! You're BEST!

66

sulpakneo

Level 1

Posts: 5
Joined: Fri Sep 30, 2016 12:26 am

Re: Can't rebuild ch341.c driver in kernel

by **sulpakneo** • Tue Oct 04, 2016 8:09 am

You're GREAT MAN!
Thank you! It's working! You safe my head!)

66

sulpakneo

Level 1

Posts: 5
Joined: Fri Sep 30, 2016 12:26 am

Re: Can't rebuild ch341.c driver in kernel

by **JeremyB** • Tue Oct 04, 2016 5:21 pm

If it worked well, edit the subject line in your original post to add [SOLVED] as it may help others searching for a solution

66

JeremyB

Level 20

Posts: 12125
Joined: Fri Feb 21, 2014 8:17 am

Re: Can't rebuild ch341.c driver in kernel

by **MintSlow2Boot** • Sun Jan 01, 2017 2:01 pm

66

JeremyB wrote:

add [SOLVED] as it may help others searching for a solution

🙄 I am searching for this solution too, Mint 18.1 x64 to use Arduino with Wine. My Windows program cannot see any comports.

uname -a
returns...
Linux AcerV5 4.4.0-53-generic #74-Ubuntu SMP Fri Dec 2 15:59:10 UTC 2016 x86_64 x86_64 GNU/Linux

Will that Dropbox download work for this too?

p.s.
dmsg shows this at boot

```
CODE: SELECT ALL
[ 6.659601] usbcore: registered new interface driver usbserial
[ 6.659765] usbcore: registered new interface driver usbserial_generic
[ 6.659923] usbserial: USB Serial support registered for generic
[ 6.666048] usbcore: registered new interface driver ch341
[ 6.666158] usbserial: USB Serial support registered for ch341-uart
[ 6.666219] ch341 3-2.4.4:1.0: ch341-uart converter detected
[ 6.667863] usb 3-2.4.4: ch341-uart converter now attached to ttyUSB0
```

Re: Can't rebuild ch341.c driver in kernel

by **JeremyB** • Sun Jan 01, 2017 2:20 pm

It isn't likely that it would work, but this one should
<https://www.dropbox.com/s/ve8pmh2ldn4gc...ar.gz?dl=0>

66

JeremyB

Level 20

Posts: 12125
Joined: Fri Feb 21, 2014 8:17 am

JeremyB

Moderator @ Linux Mint

[Wireless Script](#)

Re: Can't rebuild ch341.c driver in kernel

by **MintSlow2Boot** • Sun Jan 01, 2017 7:11 pm

66

JeremyB wrote:

It isn't likely that it would work, but this one should
<https://www.dropbox.com/s/ve8pmh2ldn4gc...ar.gz?dl=0>

Awesome, thanks very much Jeremy. I'll give it a try tonight.

Re: Can't rebuild ch341.c driver in kernel

by **MintSlow2Boot** • Mon Jan 02, 2017 1:35 pm

All good, thanks JeremyB.

66

MintSlow2Boot

Level 1

Posts: 22
Joined: Tue Dec 27, 2016 2:08 pm

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