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From: Rondreis linhaoguo86@gmail.com>
To: stern@rowland.harvard.edu, linux-usb@vger.kernel.org,
       linux-kernel@vger.kernel.org
Subject: kernel v5.19 warn in usb composite setup continue
Date: Thu, 11 Aug 2022 10:02:26 +0800
                                    [thread overview]
Message-ID: <CAB7eexLLApHJwZfMQ=X-PtRhw0BgO+5KcSMS05FNUYejJXqtSA@mail.gmail.com> (raw)
Hello,
When fuzzing the Linux kernel driver 5.19.0-rc4-00208-g69cb6c6556ad,
the following crash was triggered.
HEAD commit: 4b0986a3613c92f4ec1bdc7f60ec66fea135991f (HEAD, tag: v5.18)
git tree: upstream
kernel config: https://pastebin.com/KecL2gaG
C reproducer: https://pastebin.com/gTWJQwsh
console output: https://pastebin.com/iHzBVP3B
Basically, in the c reproducer, we use the gadget module to emulate
the process of attaching a usb device (vendor id: 0x45e, product id:
0x6d, with function: loopback null).
To reproduce this crash, we utilize a third-party library to emulate
the attaching process: https://github.com/linux-usb-gadgets/libusbgx.
Just clone this repository, make install it, and compile the c
reproducer with ``` gcc crash.c -lusbgx -o crash ``` will do the
trick.
It seems that an error state in struct usb device trigger such kernel warning.
The crash report is as follow:
input: Media Center Ed. eHome Infrared Remote Transceiver (045e:006d)
as /devices/platform/dummy hcd.5/usb6/6-1/6-1:1.0/rc/rc0/input4
----[ cut here ]-----
usb 6-1: BOGUS control dir, pipe 80000380 doesn't match bRequestType 40
WARNING: CPU: 0 PID: 2465 at drivers/usb/core/urb.c:410
usb submit urb+0x1326/0x1820 drivers/usb/core/urb.c:410
Modules linked in:
CPU: 0 PID: 2465 Comm: kworker/0:2 Not tainted 5.19.0-rc4-00208-g69cb6c6556ad #1
Hardware name: QEMU Standard PC (i440FX + PIIX, 1996), BIOS
1.13.0-1ubuntu1.1 04/01/2014
Workqueue: usb hub wq hub event
RIP: 0010:usb submit urb+0x1326/0x1820 drivers/usb/core/urb.c:410
Code: 7c 24 40 e8 ac 23 91 fd 48 8b 7c 24 40 e8 b2 70 1b ff 45 89 e8
44 89 f1 4c 89 e2 48 89 c6 48 c7 c7 a0 30 a9 86 e8 48 07 11 02 <0f> 0b
e9 1c f0 ff ff e8 7e 23 91 fd 0f b6 1d 63 22 83 05 31 ff 41
RSP: 0018:ffffc900032becf0 EFLAGS: 00010282
RDX: ffffc90004961000 RSI: fffff888114c6d580 RDI: fffff52000657d90
RBP: ffff888105ad90f0 R08: ffffffff812c3638 R09: 0000000000000000
R10: 000000000000000 R11: ffffed1023504ef1 R12: ffff888105ad9000
R13: 000000000000000 R14: 0000000080000380 R15: ffff88810ba96500
CS: 0010 DS: 0000 ES: 0000 CRO: 000000080050033
CR2: 00007ffe810bda58 CR3: 000000010b720000 CR4: 000000000350ef0
Call Trace:
<TASK>
usb start wait urb+0x101/0x4c0 drivers/usb/core/message.c:58
usb internal control msg drivers/usb/core/message.c:102 [inline]
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usb control msg+0x31c/0x4a0 drivers/usb/core/message.c:153
mceusb gen1 init drivers/media/rc/mceusb.c:1431 [inline]
mceusb dev probe+0x258e/0x33f0 drivers/media/rc/mceusb.c:1807
usb probe interface+0x310/0x800 drivers/usb/core/driver.c:396
call driver probe drivers/base/dd.c:555 [inline]
really probe drivers/base/dd.c:634 [inline]
really probe+0x23e/0xa80 drivers/base/dd.c:579
  driver_probe_device+0x338/0x4d0 drivers/base/dd.c:764
driver probe device+0x4c/0x1a0 drivers/base/dd.c:794
  device attach driver+0x20b/0x2f0 drivers/base/dd.c:917
bus for each drv+0x15f/0x1e0 drivers/base/bus.c:427
  device attach+0x283/0x490 drivers/base/dd.c:989
bus probe device+0x1e4/0x290 drivers/base/bus.c:487
device add+0xc9b/0x1da0 drivers/base/core.c:3417
usb set configuration+0x1019/0x1900 drivers/usb/core/message.c:2170
usb generic driver probe+0x9d/0xe0 drivers/usb/core/generic.c:238
usb probe device+0xd9/0x2a0 drivers/usb/core/driver.c:293
call driver probe drivers/base/dd.c:555 [inline]
really probe drivers/base/dd.c:634 [inline]
really probe+0x23e/0xa80 drivers/base/dd.c:579
 driver probe device+0x338/0x4d0 drivers/base/dd.c:764
driver probe device+0x4c/0x1a0 drivers/base/dd.c:794
 device attach driver+0x20b/0x2f0 drivers/base/dd.c:917
bus for each drv+0x15f/0x1e0 drivers/base/bus.c:427
  device attach+0x283/0x490 drivers/base/dd.c:989
bus probe device+0x1e4/0x290 drivers/base/bus.c:487
device add+0xc9b/0x1da0 drivers/base/core.c:3417
usb new device.cold+0x4b8/0x10ca drivers/usb/core/hub.c:2566
hub port connect drivers/usb/core/hub.c:5363 [inline]
hub port connect change drivers/usb/core/hub.c:5507 [inline]
port event drivers/usb/core/hub.c:5663 [inline]
hub event+0x232d/0x4180 drivers/usb/core/hub.c:5745
process one work+0x9cc/0x1650 kernel/workqueue.c:2289
worker thread+0x623/0x1070 kernel/workqueue.c:2436
kthread+0x2ef/0x3a0 kernel/kthread.c:376
ret from fork+0x1f/0x30 arch/x86/entry/entry 64.S:302
</TASK>
                 reply other threads:[~2022-08-11 2:02 UTC|newest]
next
Thread overview: 2+ messages / expand[flat|nested] mbox.gz Atom feed top
2022-08-11 2:02 Rondreis [this message]
2022-08-11 16:54 ` kernel v5.19 warn in usb composite setup continue Alan Stern
Reply instructions:
You may reply publicly to this message via plain-text email
using any one of the following methods:
* Save the following mbox file, import it into your mail client,
  and reply-to-all from there: mbox
  Avoid top-posting and favor interleaved quoting:
  https://en.wikipedia.org/wiki/Posting style#Interleaved style
* Reply using the --to, --cc, and --in-reply-to
```

--in-reply-to='CAB7eexLLApHJwZfMQ=X-PtRhw0BgO+5KcSMS05FNUYejJXqtSA@mail.gmail.com' \

switches of git-send-email(1):

git send-email \

```
--to=linhaoguo86@gmail.com \
--cc=linux-kernel@vger.kernel.org \
--cc=linux-usb@vger.kernel.org \
--cc=stern@rowland.harvard.edu \
/path/to/YOUR REPLY
```

https://kernel.org/pub/software/scm/git/docs/git-send-email.html

\* If your mail client supports setting the In-Reply-To header via mailto: links, try the mailto: link

Be sure your reply has a Subject: header at the top and a blank line before the message body.

This is an external index of several public inboxes, see mirroring instructions on how to clone and mirror all data and code used by this external index.