```
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From: kerneljasonxing@gmail.com
To: edumazet@google.com, davem@davemloft.net, kuznet@ms2.inr.ac.ru,
        yoshfuji@linux-ipv6.org
Cc: netdev@vger.kernel.org, kerneljasonxing@gmail.com,
        linux-kernel@vger.kernel.org, liweishi@kuaishou.com,
        lishujin@kuaishou.com
Subject: [PATCH] tcp: fix TCP socks unreleased in BBR mode
Date: Tue, 2 Jun 2020 16:04:25 +0800 [thread overview]
Message-ID: <20200602080425.93712-1-kerneljasonxing@gmail.com> (raw)
From: Jason Xing <kerneljasonxing@gmail.com>
TCP socks cannot be released because of the sock_hold() increasing the
sk refcnt in the manner of tcp internal pacing() when RTO happens.
Therefore, this situation could increase the slab memory and then trigger
the OOM if the machine has beening running for a long time. This issue,
however, can happen on some machine only running a few days.
We add one exception case to avoid unneeded use of sock hold if the
pacing timer is enqueued.
Reproduce procedure:
0) cat /proc/slabinfo | grep TCP
1) switch net.ipv4.tcp congestion control to bbr
2) using wrk tool something like that to send packages
3) using to to increase the delay in the dev to simulate the busy case.
4) cat /proc/slabinfo | grep TCP
5) kill the wrk command and observe the number of objects and slabs in TCP.
6) at last, you could notice that the number would not decrease.
Signed-off-by: Jason Xing <kerneljasonxing@gmail.com>
Signed-off-by: liweishi <liweishi@kuaishou.com>
Signed-off-by: Shujin Li lishujin@kuaishou.com>
 net/ipv4/tcp output.c | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
diff --git a/net/ipv4/tcp output.c b/net/ipv4/tcp output.c
index cc4ba42..5cf63d9 100644
--- a/net/ipv4/tcp output.c
+++ b/net/ipv4/tcp output.c
@@ -969,7 +969,8 @@ static void tcp internal pacing(struct sock *sk, const struct sk buff
*skb)
        u64 len ns;
        u32 rate;
        if (!tcp needs internal pacing(sk))
        if (!tcp needs internal pacing(sk) ||
            hrtimer is queued(&tcp sk(sk)->pacing timer))
                return;
        rate = sk->sk pacing rate;
        if (!rate || rate == ~0U)
1.8.3.1
```

next reply other threads:[~2020-06-02 8:05 UTC|newest]

Thread overview: 22+ messages / expand[flat|nested] mbox.gz Atom feed top
2020-06-02 8:04 kerneljasonxing [this message]

```
2020-06-02 13:05 ` [PATCH] tcp: fix TCP socks unreleased in BBR mode Eric Dumazet
2020-06-03 1:53
                   ` Jason Xing
2020-06-03 2:14
                     ` David Miller
                     ` Eric Dumazet
2020-06-03 2:29
2020-06-03 2:41
                        Jason Xing
2020-06-03 2:43
                          Eric Dumazet
2020-06-03 2:48
                            Jason Xing
2020-06-03 5:05
                            Jason Xing
2020-06-03 5:44
                              Eric Dumazet
2020-06-03 6:32
                                Jason Xing
                               ` Neal Cardwell
2020-06-03 12:02
                                  Jason Xing
2020-06-03 13:51
                                 ` Eric Dumazet
2020-06-03 13:54
2020-06-03 14:07
                                    Neal Cardwell
2020-06-04 8:40
                                      ` Jason Xing
2020-06-04 9:00 ` [PATCH v2 4.19] " kerneljasonxing
2020-06-04 13:10
                   ` Eric Dumazet
2020-06-04 13:47
                     ` Jason Xing
2020-08-11 10:37
                       ` Jason Xing
2020-08-11 15:32
                         ` Eric Dumazet
2021-04-30 10:51
                            Jason Xing
find likely ancestor, descendant, or conflicting patches for this message:
dfblob:cc4ba42 dfblob:5cf63d9
 search
                (help)
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
  switches of git-send-email(1):
  git send-email \
    --in-reply-to=20200602080425.93712-1-kerneljasonxing@gmail.com \
    --to=kerneljasonxing@gmail.com \
    --cc=davem@davemloft.net \
    --cc=edumazet@google.com \
    --cc=kuznet@ms2.inr.ac.ru \
    --cc=linux-kernel@vger.kernel.org \
    --cc=lishujin@kuaishou.com \
    --cc=liweishi@kuaishou.com \
    --cc=netdev@vger.kernel.org \
    --cc=yoshfuji@linux-ipv6.org \
    /path/to/YOUR REPLY
  https://kernel.org/pub/software/scm/qit/docs/qit-send-email.html
* If your mail client supports setting the In-Reply-To header
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Be sure your reply has a Subject: header at the top and a blank line before the message body.

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