

Data from the kernel log file at the receiver

```
[0.000000] tcp_transmit_skb: CWR set and rcv_nxt=1317912296
[0.001389] tcp_transmit_skb: CWR set and rcv_nxt=1318232304
[0.001533] tcp_transmit_skb: CWR set and rcv_nxt=1318248232
[0.002271] tcp_transmit_skb: CWR set and rcv_nxt=1318397376
[0.002278] tcp_ack_snd_check: CWR set and data seg already sent? rcv_nxt=1318421992
[0.308421] tcp_transmit_skb: CWR set and rcv_nxt=1318443712
[0.309039] tcp_transmit_skb: CWR set and rcv_nxt=1318565344
```

I think both of these log entries have to correspond to processing the CWR segment for which no ACK is sent. Two reasons: (1) there is only a 7 us time difference between the entries, (2) I don't see any other CWR segments in the trace to which they can correspond.

CWR segments from tcpdump trace at receiver interface

```
[0.000000] CWR pkt - SeqNo = 1317900712, length = 11584 → SeqNo + length = 1317912296
[0.001391] CWR pkt - SeqNo = 1318229408, length = 2896 → SeqNo + length = 1318232304
[0.001543] CWR pkt - SeqNo = 1318245336, length = 2896 → SeqNo + length = 1318248232
[0.002273] CWR pkt - SeqNo = 1318397376, length = 24616 → SeqNo + length = 1318421992
[0.308413] CWR pkt - SeqNo = 1318421992, length = 21720 → SeqNo + length = 1318443712
[0.308999] CWR pkt - SeqNo = 1318553760, length = 11584 → SeqNo + length = 1318565344
```

This is the CWR segment for which no ACK is sent. It looks like `tcp_transmit_skb()` is called first and `rcv_nxt` is (incorrectly) set to the `SeqNo` of the CWR segment being processed. And then `tcp_ack_snd_check()` is called, during which it thinks that a data segment has already been sent and it does *not* call `tcp_transmit_skb()` again. I'm not sure where the first call to `tcp_transmit_skb()` is coming from.