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commit [e27458b18b35caee4b27b37a4a9c503b93cae5cc](#) (patch)
tree [e7439bd315bb911008bd7fe8bac15b805ff81a60](#)
parent [0b4c259b63eaab592987c47f41f32e4e2f5d4fbe](#) (diff)
download [linux-e27458b18b35caee4b27b37a4a9c503b93cae5cc.tar.gz](#)

diff options

context:

3 ▼

space:

include ▼

mode:

unified ▼

sctp: clear out_curr if all frag chunks of current msg are pruned

[Upstream commit 2f201ae14ae0f91dbf1cffe7bb1e29e81d4d108]

A crash was reported by Zhen Chen:

```
list_del corruption, ffffa035ddf01c18->next is NULL
WARNING: CPU: 1 PID: 250682 at lib/list_debug.c:49 __list_del_entry_valid+0x59/0xe0
RIP: 0010:__list_del_entry_valid+0x59/0xe0
Call Trace:
 sctp_sched_dequeue_common+0x17/0x70 [sctp]
 sctp_sched_fcfs_dequeue+0x37/0x50 [sctp]
 sctp_outq_flush_data+0x85/0x360 [sctp]
 sctp_outq_uncork+0x77/0xa0 [sctp]
 sctp_cmd_interpreter.constprop.0+0x164/0x1450 [sctp]
 sctp_side_effects+0x37/0xe0 [sctp]
 sctp_do_sm+0xd0/0x230 [sctp]
 sctp_primitive_SEND+0x2f/0x40 [sctp]
 sctp_sendmsg_to_asoc+0x3fa/0x5c0 [sctp]
 sctp_sendmsg+0x3d5/0x440 [sctp]
 sock_sendmsg+0x5b/0x70
```

and in sctp_sched_fcfs_dequeue() it dequeued a chunk from stream out_curr outq while this outq was empty.

Normally stream->out_curr must be set to NULL once all frag chunks of current msg are dequeued, as we can see in sctp_sched_dequeue_done(). However, in sctp_prsctp_prune_unsent() as it is not a proper dequeue, sctp_sched_dequeue_done() is not called to do this.

This patch is to fix it by simply setting out_curr to NULL when the last frag chunk of current msg is dequeued from out_curr stream in sctp_prsctp_prune_unsent().

Fixes: 5bbbbe32a431 ("sctp: introduce stream scheduler foundations")
Reported-by: Zhen Chen <chenzhen126@huawei.com>
Tested-by: Caowangbao <caowangbao@huawei.com>
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Diffstat

-rw-r--r-- [net/sctp/outqueue.c](#) 5

1 files changed, 5 insertions, 0 deletions

diff --git a/net/sctp/outqueue.c b/net/sctp/outqueue.c

index 35d5532320f9c8..83a89dcf75ed05 100644

--- a/net/sctp/outqueue.c

+++ b/net/sctp/outqueue.c

```
@@ -403,6 +403,11 @@ static int sctp_prsctp_prune_unsent(struct sctp_association *asoc,
    sout = SCTP_SO(&asoc->stream, chk->sinfo.sinfo_stream);
    sout->ext->abandoned_unsent[SCTP_PR_INDEX(PRIO)]++;

+
+    /* clear out_curr if all frag chunks are pruned */
+    if (asoc->stream.out_curr == sout &&
+        list_is_last(&chk->frag_list, &chk->msg->chunks))
+        asoc->stream.out_curr = NULL;
+
    msg_len -= chk->skb->truesize + sizeof(struct sctp_chunk);
    sctp_chunk_free(chk);
    if (msg_len <= 0)
```