



author Cong Wang <xiyou.wangcong@gmail.com> 2025-04-03 14:16:31 -0700
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2025-04-20 10:22:18 +0200
commit [a57fe60ef4cf96bfbb6b58397ec28bdb5a5c6b31](#) (patch)
tree [1e95746c32347017737d4c1dcce56d8451151b74](#)
parent [a40cbfbb8f95c325430f017883da669b2aa927d4](#) (diff)
download [linux-a57fe60ef4cf96bfbb6b58397ec28bdb5a5c6b31.tar.gz](#)

diff options

context: ▼
space: ▼
mode: ▼

code: remove sch->q.qlen check before qdisc_tree_reduce_backlog()

[Upstream commit 342debc12183b51773b3345ba267e9263bdfaaef]

After making all ->qlen_notify() callbacks idempotent, now it is safe to remove the check of qlen!=0 from both fq_codel_dequeue() and codel_qdisc_dequeue().

Reported-by: Gerrard Tai <gerrard.tai@starlabs.sg>
Fixes: 4b549a2ef4be ("fq_codel: Fair Queue Codel AQM")
Fixes: 76e3cc126bb2 ("codel: Controlled Delay AQM")
Signed-off-by: Cong Wang <xiyou.wangcong@gmail.com>
Reviewed-by: Simon Horman <horms@kernel.org>
Link: <https://patch.msgid.link/20250403211636.166257-1-xiyou.wangcong@gmail.com>
Acked-by: Jamal Hadi Salim <jhs@mojatatu.com>
Signed-off-by: Paolo Abeni <pabeni@redhat.com>
Signed-off-by: Sasha Levin <sasha@kernel.org>

Diffstat

```
-rw-r--r-- net/sched/sch_codel.c 5  
-rw-r--r-- net/sched/sch_fq_codel.c 6
```

2 files changed, 3 insertions, 8 deletions

diff --git a/net/sched/sch_codel.c b/net/sched/sch_codel.c

index 81189d02fee761..12dd71139da396 100644

--- a/net/sched/sch_codel.c

+++ b/net/sched/sch_codel.c

```
@@ -65,10 +65,7 @@ static struct sk_buff *codel_qdisc_dequeue(struct Qdisc *sch)  
        &q->stats, qdisc_pkt_len, codel_get_enqueue_time,  
        drop_func, dequeue_func);
```

```
-        /* We cant call qdisc_tree_reduce_backlog() if our qlen is 0,  
-        * or HTB crashes. Defer it for next round.  
-        */  
-        if (q->stats.drop_count && sch->q.qlen) {  
+        if (q->stats.drop_count) {  
                qdisc_tree_reduce_backlog(sch, q->stats.drop_count, q->stats.drop_len);  
                q->stats.drop_count = 0;  
                q->stats.drop_len = 0;
```

diff --git a/net/sched/sch_fq_codel.c b/net/sched/sch_fq_codel.c

index 799f5397ad4c17..6c9029f71e88d3 100644

```
--- a/net/sched/sch_fq_codel.c
+++ b/net/sched/sch_fq_codel.c
@@ -315,10 +315,8 @@ begin:
    }
    qdisc_bstats_update(sch, skb);
    flow->deficit -= qdisc_pkt_len(skb);
-   /* We cant call qdisc_tree_reduce_backlog() if our qlen is 0,
-    * or HTB crashes. Defer it for next round.
-    */
-   if (q->cstats.drop_count && sch->q.qlen) {
+   if (q->cstats.drop_count) {
        qdisc_tree_reduce_backlog(sch, q->cstats.drop_count,
                                q->cstats.drop_len);
        q->cstats.drop_count = 0;
```