



index : kernel/git/stable/linux.git

master



switch

Linux kernel stable tree

Stable Group

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author Cong Wang <xiyou.wangcong@gmail.com> 2025-04-03 14:16:31 -0700
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2025-04-25 10:43:25 +0200
commit 829c49b6b2ff45b043739168fd1245e4e1a91a30 (patch)
tree bc86e44ee6040fe8001444b7fc542a1187318b70
parent 24e6280cdd7f8d01fc6b9b365fb800c2fb7ea9bb (diff)
download linux-829c49b6b2ff45b043739168fd1245e4e1a91a30.tar.gz

diff options

context:

3

space:

include

mode:

unified

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 d7a4874543de5d..5f2e0681574567 100644

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

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

```
@@ -95,10 +95,7 @@ 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 8c4fee0634366e..9330923a624c02 100644

```
--- a/net/sched/sch_fq_codel.c
+++ b/net/sched/sch_fq_codel.c
@@ -314,10 +314,8 @@ 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;
```