
Subject: [PATCH] rtnl_unlock cleanups
Posted by [den](#) on Mon, 01 Oct 2007 09:50:12 GMT
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There is no need to process outstanding netlink user->kernel packets during rtnl_unlock now. There is no rtnl_trylock in the rtneink_rcv anymore.

Normal code path is the following:

```
netlink_sendmsg
    netlink_unicast
        netlink_sendskb
            skb_queue_tail
            netlink_data_ready
                rtneink_rcv
                    mutex_lock(&rtnl_mutex);
                    netlink_run_queue(sk, qlen, &rtneink_rcv_msg);
                    mutex_unlock(&rtnl_mutex);
```

So, it is possible, that packets can be present in the rtnl->sk_receive_queue during rtnl_unlock, but there is no need to process them at that moment as rtneink_rcv for that packet is pending.

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```
--- ./net/core/rtneink.c.rtnl2 2007-08-26 19:30:38.000000000 +0400
+++ ./net/core/rtneink.c 2007-10-01 13:09:03.000000000 +0400
@@ -75,8 +75,6 @@ void __rtnl_unlock(void)
void rtnl_unlock(void)
{
    mutex_unlock(&rtnl_mutex);
- if (rtnl && rtnl->sk_receive_queue.qlen)
-     rtnl->sk_data_ready(rtnl, 0);
    netdev_run_todo();
}

@@ -1319,11 +1317,9 @@ static void rtneink_rcv(struct sock *s
    unsigned int qlen = 0;

    do {
-     mutex_lock(&rtnl_mutex);
+     rtnl_lock();
        qlen = netlink_run_queue(sk, qlen, &rtneink_rcv_msg);
-     mutex_unlock(&rtnl_mutex);
-
-     netdev_run_todo();
+     rtnl_unlock();
```

```
} while (qlen);  
}
```
