
Subject: [PATCH 1/13 net-2.6.26] [TCP]: Replace socket with sock for reset sending.

Posted by [den](#) on Mon, 31 Mar 2008 13:16:41 GMT

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Replace tcp_socket with tcp_sock. This is more effective (less dereferences on fast paths). Additionally, the approach is unified to one used in ICMP.

Signed-off-by: Denis V. Lunev <den@openvz.org>

net/ipv4/tcp_ipv4.c | 10 ++++++-----

1 files changed, 6 insertions(+), 4 deletions(-)

diff --git a/net/ipv4/tcp_ipv4.c b/net/ipv4/tcp_ipv4.c

index ef141b8..1d77f37 100644

--- a/net/ipv4/tcp_ipv4.c

+++ b/net/ipv4/tcp_ipv4.c

@@ -89,7 +89,7 @@ int sysctl_tcp_low_latency __read_mostly;

#define ICMP_MIN_LENGTH 8

/* Socket used for sending RSTs */

-static struct socket *tcp_socket __read_mostly;

+static struct sock *tcp_sock __read_mostly;

void tcp_v4_send_check(struct sock *sk, int len, struct sk_buff *skb);

@@ -598,7 +598,7 @@ static void tcp_v4_send_reset(struct sock *sk, struct sk_buff *skb)
sizeof(struct tcphdr), IPPROTO_TCP, 0);

arg.csumoffset = offsetof(struct tcphdr, check) / 2;

- ip_send_reply(tcp_socket->sk, skb, &arg, arg.iov[0].iov_len);

+ ip_send_reply(tcp_sock, skb, &arg, arg.iov[0].iov_len);

TCP_INC_STATS_BH(TCP_MIB_OUTSEGS);

TCP_INC_STATS_BH(TCP_MIB_OUTRSTS);

@@ -693,7 +693,7 @@ static void tcp_v4_send_ack(struct tcp_timewait_sock *twsk,
if (twsk)

arg.bound_dev_if = twsk->tw_sk.tw_bound_dev_if;

- ip_send_reply(tcp_socket->sk, skb, &arg, arg.iov[0].iov_len);

+ ip_send_reply(tcp_sock, skb, &arg, arg.iov[0].iov_len);

TCP_INC_STATS_BH(TCP_MIB_OUTSEGS);

}

@@ -2490,9 +2490,11 @@ struct proto tcp_prot = {

void __init tcp_v4_init(void)

{

```
- if (inet_csk_ctl_sock_create(&tcp_socket, PF_INET, SOCK_RAW,  
+ struct socket * __tcp_socket;  
+ if (inet_csk_ctl_sock_create(&__tcp_socket, PF_INET, SOCK_RAW,  
    IPPROTO_TCP) < 0)  
    panic("Failed to create the TCP control socket.\n");  
+ tcp_sock = __tcp_socket->sk;  
}
```

```
EXPORT_SYMBOL(ipv4_specific);
```

```
--
```

1.5.3.rc5

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Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
