
Subject: [PATCH] Use BUILD_BUG_ON for tcp_skb_cb size checking

Posted by [Pavel Emelianov](#) on Fri, 07 Dec 2007 17:42:04 GMT

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The sizeof(struct tcp_skb_cb) should not be less than the sizeof(skb->cb). This is checked in net/ipv4/tcp.c, but this check can be made more gracefully.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

```
diff --git a/net/ipv4/tcp.c b/net/ipv4/tcp.c
index 8e65182..c8bebd3 100644
--- a/net/ipv4/tcp.c
+++ b/net/ipv4/tcp.c
@@ -2411,7 +2411,6 @@ void tcp_done(struct sock *sk)
 }
 EXPORT_SYMBOL_GPL(tcp_done);

-extern void __skb_cb_too_small_for_tcp(int, int);
extern struct tcp_congestion_ops tcp_reno;

static __initdata unsigned long thash_entries;
@@ -2430,9 +2429,7 @@ void __init tcp_init(void)
 unsigned long limit;
 int order, i, max_share;

- if (sizeof(struct tcp_skb_cb) > sizeof(skb->cb))
- __skb_cb_too_small_for_tcp(sizeof(struct tcp_skb_cb),
- sizeof(skb->cb));
+ BUILD_BUG_ON(sizeof(struct tcp_skb_cb) > sizeof(skb->cb));

tcp_hashinfo.bind_bucket_cachep =
kmem_cache_create("tcp_bind_bucket",
```

Subject: Re: [PATCH] Use BUILD_BUG_ON for tcp_skb_cb size checking

Posted by [davem](#) on Tue, 11 Dec 2007 10:12:14 GMT

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From: Pavel Emelyanov <xemul@openvz.org>

Date: Fri, 07 Dec 2007 20:42:04 +0300

> The sizeof(struct tcp_skb_cb) should not be less than the
> sizeof(skb->cb). This is checked in net/ipv4/tcp.c, but
> this check can be made more gracefully.
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> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

Applied to net-2.6.25, thanks.
