
Subject: Re: [PATCH 1/4] netns: Tag the network flow with the network namespace it is in (v2)

Posted by [davem](#) on Wed, 05 Dec 2007 10:10:36 GMT

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From: "Denis V. Lunev" <den@sw.ru>

Date: Tue, 04 Dec 2007 21:42:49 +0300

> Stephen Hemminger wrote:

> > Can this be made conditional on network namespaces being configured on?

> > That way the flow structure won't have to grow taking more space.

> > It matters in DoS attacks where flow cache becomes a critical resource.

>

> could you exactly point me out the flow cache your are talking about.

> Is this dst entry cache or struct flow_cache described in the

> net/core/flow.c

>

> For the latter case, there is completely no difference in the size on my

> x86_64 host with SLAB allocator, i.e. there are 30 objects per slab

> with/without fl_net (objsize = 128).

This may be true, but another thing to consider is that flow objects sit on the stack in many call sites.

I won't let this block your patch, but I want you to be cognizant of this issue in the future, it's not all about SLAB.

You should also BTW consider how this change will effect D-cache access patterns and L2 cache utilization. Some object access patterns may not fit in the cache, which did beforehand, which can kill performance. We're talking about something which gets touched multiple times per packet at routing rates in the million packet per second range.
