
Subject: Re: [PATCH 3/3] Fix race in `ipv6_flowlabel_opt()` when inserting two labels
Posted by [davem](#) on Thu, 18 Oct 2007 12:19:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

From: Pavel Emelyanov <xemul@openvz.org>

Date: Thu, 18 Oct 2007 15:59:14 +0400

> In the `IPV6_FL_A_GET` case the hash is checked for flowlabels
> with the given label. If it is not found, the lock, protecting
> the hash, is dropped to be re-get for writing. After this a
> newly allocated entry is inserted, but no checks are performed
> to catch a classical SMP race, when the conflicting label may
> be inserted on another cpu.

>

> Use the (currently unused) return value from `fl_intern()` to
> return the conflicting entry (if found) and re-check, whether
> we can reuse it (`IPV6_FL_F_EXCL`) or return `-EEXISTS`.

>

> Also add the comment, about why not re-lookup the current
> sock for conflicting flowlabel entry.

>

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

Applied.
