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Subject: Re: [patch 1/2][NETNS][RFD] store the network namespace pointer in the dst\_entry structure

Posted by [Daniel Lezcano](#) on Tue, 11 Dec 2007 17:36:14 GMT

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Benjamin Thery wrote:

> Eric W. Biederman wrote:

>> Daniel Lezcano <dlezcano@fr.ibm.com> writes:

>>

>>>> Could you please place the struct net \*net pointer up by the

>>>> network device pointer.

>>>> };

>>>> I know we need a net pointer in struct rt\_table, because it

>>>> is a hash table that we can't dynamically allocate so we need

>>>> to place a network namespace pointer as part of the hash key.

>>>>

>>>> For the ipv6 fib tables I don't recall needing a net pointer as we didn't have

>>>> a hash table and could instead have separate

>>>> roots for different namespaces.

>>> Yes don't need for the hash table but we used it to pass the network namespace

>>> parameter to the underlying function which need the net parameter.

>>>

>>> We are facing two problems when removing the fl\_net field from flowi:

>>>

>>> \* The first one is the fl\_net is used as a key. This problem can be handled

>>> simply in moving the netns to the rtable.

>> Yes.

>>

>>> \* The second one is the usage made by the fl\_net to pass through the different

>>> function calls the network namespace pointer without changing all functions

>>> signature. This problem can be solved if we put the netns pointer in the

>>> dst\_entry structure, so when we are in ipv4, we use container\_of on rtable and

>>> when we are in ipv6, we use the container\_of on rt6\_info. So everywhere with the

>>> flowi, we can retrieve the netns.

>> That doesn't work as rt6\_info does not currently hold a struct flowi.

>>

>>>> I find this slightly odd as I didn't wind up needing to add

>>>> a struct net pointer in struct dst in my proof of concept tree

>>>> and struct dst doesn't have a struct flowi so that would not

>>>> have prevented it.

>>> The idea is to put the net in the dst\_entry because it is accessible from rtable

>>> or rt6\_info and these ones contain a flowi field.

>> And since that isn't true, the idea seems to fall flat on it's face.

>

> My fault.

> While talking with Daniel last week I suggested to put the net in

> dst\_entry instead of rtable, because dst\_entry was common to rtable

> and rt6\_info. I thought we could factorize some code this way. I

> wrongly assumed IPv6 was pretty similar to IPv4 in the way it handles  
> flowi. I should have checked that more carefully. Crap ;)

Me too :)

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Containers mailing list

Containers@lists.linux-foundation.org

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

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