Subject: Re: [patch 1/2][NETNS][RFD] store the network namespace pointer in the dst entry structure Posted by Benjamin Thery on Tue, 11 Dec 2007 17:24:07 GMT View Forum Message <> Reply to Message 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;)

Benjamin

>

- > I expect most of the instances of struct flowi that we would be
- > looking things up with would be on the stack so the earlier concerns
- > raised would likely still need to be addressed.

>

> Eric

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