
Subject: cleanup in workq and dst_destroy

Posted by [Daniel Lezcano](#) on Fri, 16 Nov 2007 16:32:04 GMT

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Hi all,

while doing ipv6 namespace, we were faced to a problem with the loopback and the dst_destroy function.

When the network namespace exits, the cleanup function is called by schedule_work and this function will browse the net ops list to call the different exit methods for the registered subsystems.

The different subsystems will shutdown their resources and in particular addrconf subsystem will ifdown the loopback. This function will call rt6_ifdown

- > fib6_clean_all
- > fib6_clean_node
- > fib6_clean_tree
- > fib6_clean_node
- > fib6_del
- > fib6_del_route
- > rt6_release
- > dst_free
- > __dst_free

The __dst_free function will schedule_delayed_work the dst_gc_work function.

The dst_gc_work will call dst_destroy and finally this one will call dst->ops->destroy ops function which is ip6_dst_destroy.

The problem here is we have the workq blocked because we are running inside the netns cleanup function. So the delayed work will not run until we exits the cleanup function. But the loopback is still referenced by the ip6 routes, the netdev_unregister will loop indefinitely => dead lock.

By the way, this bug appears with ipv6 but it is perhaps pending with ipv4.

Benjamin as proposed to create a separate workq for the network namespace, so in the worst case we have the unregister looping until the ip6 route are shut downed. Is it an acceptable solution ?

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