
Subject: [patch 26/38][IPv6] route6 - Pass the network namespace parameter to rt6_lookup

Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:17:02 GMT

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Add a network namespace parameter to rt6_lookup().

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```
include/net/ip6_route.h | 3 ++-
net/ipv6/addrconf.c     | 4 ++--
net/ipv6/anycast.c      | 2 +-
net/ipv6/ip6_tunnel.c   | 4 ++--
net/ipv6/mcast.c        | 4 ++--
net/ipv6/route.c        | 9 ++++++----
net/ipv6/sit.c          | 4 ++--
7 files changed, 16 insertions(+), 14 deletions(-)
```

Index: linux-2.6-netns/include/net/ip6_route.h

=====

--- linux-2.6-netns.orig/include/net/ip6_route.h

+++ linux-2.6-netns/include/net/ip6_route.h

```
@@ -73,7 +73,8 @@ extern void rt6_sndmsg(int type, struct
    int dstlen, int srclen,
    int metric, __u32 flags);
```

```
-extern struct rt6_info *rt6_lookup(struct in6_addr *daddr,
+extern struct rt6_info *rt6_lookup(struct net *net,
+    struct in6_addr *daddr,
+    struct in6_addr *saddr,
+    int oif, int flags);
```

Index: linux-2.6-netns/net/ipv6/addrconf.c

=====

--- linux-2.6-netns.orig/net/ipv6/addrconf.c

+++ linux-2.6-netns/net/ipv6/addrconf.c

```
@@ -728,7 +728,7 @@ static void ipv6_del_addr(struct inet6_i
    struct rt6_info *rt;
```

```
    ipv6_addr_prefix(&prefix, &ifp->addr, ifp->prefix_len);
- rt = rt6_lookup(&prefix, NULL, ifp->idev->dev->ifindex, 1);
+ rt = rt6_lookup(&init_net, &prefix, NULL, ifp->idev->dev->ifindex, 1);
```

```
    if (rt && ((rt->rt6i_flags & (RTF_GATEWAY | RTF_DEFAULT)) == 0)) {
        if (onlink == 0) {
@@ -1672,7 +1672,7 @@ void addrconf_prefix_rcv(struct net_devi
```

```

if (pinfo->onlink) {
    struct rt6_info *rt;
-   rt = rt6_lookup(&pinfo->prefix, NULL, dev->ifindex, 1);
+   rt = rt6_lookup(&init_net, &pinfo->prefix, NULL, dev->ifindex, 1);

    if (rt && ((rt->rt6i_flags & (RTF_GATEWAY | RTF_DEFAULT)) == 0)) {
        if (rt->rt6i_flags & RTF_EXPIRES) {
Index: linux-2.6-netns/net/ipv6/anycast.c
=====
--- linux-2.6-netns.orig/net/ipv6/anycast.c
+++ linux-2.6-netns/net/ipv6/anycast.c
@@ -101,7 +101,7 @@ int ipv6_sock_ac_join(struct sock *sk, i
    if (ifindex == 0) {
        struct rt6_info *rt;

-   rt = rt6_lookup(addr, NULL, 0, 0);
+   rt = rt6_lookup(&init_net, addr, NULL, 0, 0);
        if (rt) {
            dev = rt->rt6i_dev;
            dev_hold(dev);
Index: linux-2.6-netns/net/ipv6/ip6_tunnel.c
=====
--- linux-2.6-netns.orig/net/ipv6/ip6_tunnel.c
+++ linux-2.6-netns/net/ipv6/ip6_tunnel.c
@@ -602,7 +602,7 @@ int ip6ip6_err(struct sk_buff *skb, struct i
    skb_reset_network_header(skb2);

    /* Try to guess incoming interface */
-   rt = rt6_lookup(&ipv6_hdr(skb2)->saddr, NULL, 0, 0);
+   rt = rt6_lookup(&init_net, &ipv6_hdr(skb2)->saddr, NULL, 0, 0);

    if (rt && rt->rt6i_dev)
        skb2->dev = rt->rt6i_dev;
@@ -1112,7 +1112,7 @@ static void ip6_tnl_link_config(struct i
    int strict = (ipv6_addr_type(&p->raddr) &
        (IPV6_ADDR_MULTICAST|IPV6_ADDR_LINKLOCAL));

-   struct rt6_info *rt = rt6_lookup(&p->raddr, &p->laddr,
+   struct rt6_info *rt = rt6_lookup(&init_net, &p->raddr, &p->laddr,
        p->link, strict);

    if (rt == NULL)
Index: linux-2.6-netns/net/ipv6/mcast.c
=====
--- linux-2.6-netns.orig/net/ipv6/mcast.c
+++ linux-2.6-netns/net/ipv6/mcast.c
@@ -208,7 +208,7 @@ int ipv6_sock_mc_join(struct sock *sk, i

```

```

if (ifindex == 0) {
    struct rt6_info *rt;
-   rt = rt6_lookup(addr, NULL, 0, 0);
+   rt = rt6_lookup(&init_net, addr, NULL, 0, 0);
    if (rt) {
        dev = rt->rt6i_dev;
        dev_hold(dev);
@@ -294,7 +294,7 @@ static struct inet6_dev *ip6_mc_find_dev
    if (ifindex == 0) {
        struct rt6_info *rt;

-   rt = rt6_lookup(group, NULL, 0, 0);
+   rt = rt6_lookup(&init_net, group, NULL, 0, 0);
    if (rt) {
        dev = rt->rt6i_dev;
        dev_hold(dev);
Index: linux-2.6-netns/net/ipv6/route.c
=====
--- linux-2.6-netns.orig/net/ipv6/route.c
+++ linux-2.6-netns/net/ipv6/route.c
@@ -553,11 +553,12 @@ out:

}

-struct rt6_info *rt6_lookup(struct in6_addr *daddr, struct in6_addr *saddr,
+struct rt6_info *rt6_lookup(struct net *net,
+    struct in6_addr *daddr, struct in6_addr *saddr,
+    int oif, int strict)
{
    struct flowi fl = {
-   .fl_net = &init_net,
+   .fl_net = net,
    .oif = oif,
    .nl_u = {
        .ip6_u = {
@@ -1164,7 +1165,7 @@ int ip6_route_add(struct fib6_config *cf
    if (!(gwa_type & IPV6_ADDR_UNICAST))
        goto out;

-   grt = rt6_lookup(gw_addr, NULL, cfg->fc_ifindex, 1);
+   grt = rt6_lookup(&init_net, gw_addr, NULL, cfg->fc_ifindex, 1);

    err = -EHOSTUNREACH;
    if (grt == NULL)
@@ -1486,7 +1487,7 @@ void rt6_pmtu_discovery(struct in6_addr
    struct rt6_info *rt, *nrt;
    int allfrag = 0;

```

```

- rt = rt6_lookup(daddr, saddr, dev->ifindex, 0);
+ rt = rt6_lookup(dev->nd_net, daddr, saddr, dev->ifindex, 0);
  if (rt == NULL)
    return;

```

Index: linux-2.6-netns/net/ipv6/sit.c

=====

--- linux-2.6-netns.orig/net/ipv6/sit.c

+++ linux-2.6-netns/net/ipv6/sit.c

@@ -341,11 +341,11 @@ out:

```

    skb_reset_network_header(skb2);

```

```

/* Try to guess incoming interface */

```

```

- rt6i = rt6_lookup(&iph6->saddr, NULL, NULL, 0);

```

```

+ rt6i = rt6_lookup(&init_net, &iph6->saddr, NULL, NULL, 0);

```

```

  if (rt6i && rt6i->rt6i_dev) {
    skb2->dev = rt6i->rt6i_dev;

```

```

- rt6i = rt6_lookup(&iph6->daddr, &iph6->saddr, NULL, 0);

```

```

+ rt6i = rt6_lookup(&init_net, &iph6->daddr, &iph6->saddr, NULL, 0);

```

```

  if (rt6i && rt6i->rt6i_dev && rt6i->rt6i_dev->type == ARPHRD_SIT) {
    struct ip_tunnel *t = netdev_priv(rt6i->rt6i_dev);

```

```

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```

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