

---

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

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

---

Add a network namespace parameter to rt6\_lookup().

Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

---

```
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, struc
    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 @@ 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);
```

--

---

Containers mailing list

Containers@lists.linux-foundation.org

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

---