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Subject: [PATCH 0/8 2.6.25] a set of small code cleanups

Posted by [den](#) on Mon, 14 Jan 2008 14:59:23 GMT

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This set contains a set of small improvements found in IPv4 code during preparations to support ARP in the network namespace. These fixes are mostly independent except 2 last ones.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

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Subject: [PATCH 1/8 net-2.6.25] [ARP] Move inet\_addr\_type call after simple error checks in arp\_constructor.

Posted by [den](#) on Mon, 14 Jan 2008 14:59:54 GMT

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The neighbour entry will be destroyed in the case of error, so it is pointless to perform constly routing table lookup in this case.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

---

net/ipv4/arp.c | 4 +---  
1 files changed, 2 insertions(+), 2 deletions(-)

```
diff --git a/net/ipv4/arp.c b/net/ipv4/arp.c  
index b715ec0..49c24ff 100644  
--- a/net/ipv4/arp.c  
+++ b/net/ipv4/arp.c  
@@ -235,8 +235,6 @@ static int arp_constructor(struct neighbour *neigh)  
    struct in_device *in_dev;  
    struct neigh_parms *parms;  
  
-    neigh->type = inet_addr_type(&init_net, addr);  
-  
-    rCU_read_lock();  
-    in_dev = __in_dev_get_rcu(dev);  
-    if (in_dev == NULL) {  
@@ -244,6 +242,8 @@ static int arp_constructor(struct neighbour *neigh)  
    return -EINVAL;  
}  
  
+    neigh->type = inet_addr_type(&init_net, addr);  
+  
+    parms = in_dev->arp_parms;  
    __neigh_parms_put(neigh->parms);  
    neigh->parms = neigh_parms_clone(parms);  
--  
1.5.3.rc5
```

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Subject: [PATCH 2/8 net-2.6.25] [NETNS] Make arp code network namespace consistent.

Posted by [den](#) on Mon, 14 Jan 2008 14:59:55 GMT

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Some calls in the arp.c have network namespace as an argument. Getting init\_net inside these functions is simply inconsistent. Fix this.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

---

net/ipv4/arp.c | 8 +++++---

1 files changed, 4 insertions(+), 4 deletions(-)

```
diff --git a/net/ipv4/arp.c b/net/ipv4/arp.c
index 49c24ff..0db7d49 100644
--- a/net/ipv4/arp.c
+++ b/net/ipv4/arp.c
@@ -969,13 +969,13 @@ static int arp_req_set_public(struct net *net, struct arpreq *r,
 if (mask && mask != htonl(0xFFFFFFFF))
    return -EINVAL;
 if (!dev && (r->arp_flags & ATF_COM)) {
- dev = dev_getbyhwaddr(&init_net, r->arp_ha.sa_family,
+ dev = dev_getbyhwaddr(net, r->arp_ha.sa_family,
    r->arp_ha.sa_data);
 if (!dev)
    return -ENODEV;
 }
 if (mask) {
- if (pneigh_lookup(&arp_tbl, &init_net, &ip, dev, 1) == NULL)
+ if (pneigh_lookup(&arp_tbl, net, &ip, dev, 1) == NULL)
    return -ENOBUFS;
 return 0;
 }
@@ -1084,7 +1084,7 @@ static int arp_req_delete_public(struct net *net, struct arpreq *r,
 __be32 mask = ((struct sockaddr_in *)&r->arp_netmask)->sin_addr.s_addr;

 if (mask == htonl(0xFFFFFFFF))
- return pneigh_delete(&arp_tbl, &init_net, &ip, dev);
+ return pneigh_delete(&arp_tbl, net, &ip, dev);

 if (mask)
    return -EINVAL;
@@ -1162,7 +1162,7 @@ int arp_ioctl(struct net *net, unsigned int cmd, void __user *arg)
 rtnl_lock();
 if (r.arp_dev[0]) {
    err = -ENODEV;
- if ((dev = __dev_get_by_name(&init_net, r.arp_dev)) == NULL)
+ if ((dev = __dev_get_by_name(net, r.arp_dev)) == NULL)
    goto out;
```

```
/* Mmmm... It is wrong... ARPHRD_NETROM==0 */
```

```
--  
1.5.3.rc5
```

---

---

Subject: [PATCH 3/8 net-2.6.25] [IPV4] fib\_rules\_unregister is essentially void.

Posted by [den](#) on Mon, 14 Jan 2008 14:59:56 GMT

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fib\_rules\_unregister is called only after successful register and the return code is never checked.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

```
---  
include/net/fib_rules.h |  2 +-  
net/core/fib_rules.c   | 21 +++++-----  
2 files changed, 5 insertions(+), 18 deletions(-)
```

```
diff --git a/include/net/fib_rules.h b/include/net/fib_rules.h  
index 88f870f..34349f9 100644  
--- a/include/net/fib_rules.h  
+++ b/include/net/fib_rules.h  
@@ -104,7 +104,7 @@ static inline u32 frh_get_table(struct fib_rule_hdr *frh, struct nla **nla)  
}  
  
extern int fib_rules_register(struct net *, struct fib_rules_ops *);  
-extern int fib_rules_unregister(struct net *, struct fib_rules_ops *);  
+extern void fib_rules_unregister(struct net *, struct fib_rules_ops *);  
extern void          fib_rules_cleanup_ops(struct fib_rules_ops *);
```

```
extern int  fib_rules_lookup(struct fib_rules_ops *,  
diff --git a/net/core/fib_rules.c b/net/core/fib_rules.c  
index 0eecf4c..42ccaf5 100644  
--- a/net/core/fib_rules.c  
+++ b/net/core/fib_rules.c  
@@ -115,29 +115,16 @@ void fib_rules_cleanup_ops(struct fib_rules_ops *ops)  
}  
EXPORT_SYMBOL_GPL(fib_rules_cleanup_ops);
```

```
-int fib_rules_unregister(struct net *net, struct fib_rules_ops *ops)  
+void fib_rules_unregister(struct net *net, struct fib_rules_ops *ops)  
{  
- int err = 0;  
- struct fib_rules_ops *o;  
  
    spin_lock(&net->rules_mod_lock);  
- list_for_each_entry(o, &net->rules_ops, list) {
```

```

- if (o == ops) {
-   list_del_rcu(&o->list);
-   fib_rules_cleanup_ops(ops);
-   goto out;
- }
- }

-
- err = -ENOENT;
-out:
+ list_del_rcu(&ops->list);
+ fib_rules_cleanup_ops(ops);
  spin_unlock(&net->rules_mod_lock);

  synchronize_rcu();
- if (!err)
-   release_net(net);
-
- return err;
+ release_net(net);
}

EXPORT_SYMBOL_GPL(fib_rules_unregister);
--
```

### 1.5.3.rc5

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**Subject:** [PATCH 4/8 net-2.6.25] [ARP] Remove overkill checks from  
neigh\_param\_alloc.

**Posted by** [den](#) **on** Mon, 14 Jan 2008 14:59:57 GMT

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Valid network device is always passed into neigh\_param\_alloc, so remove extra checking for dev == NULL. Additionally, cleanup bogus netns assignment.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>  
Signed-off-by: Pavel Emelyanov <[xemul@openvz.org](mailto:xemul@openvz.org)>

---

net/core/neighbour.c | 18 ++++++-----  
1 files changed, 7 insertions(+), 11 deletions(-)

```
diff --git a/net/core/neighbour.c b/net/core/neighbour.c
index af49137..32f1a23 100644
--- a/net/core/neighbour.c
+++ b/net/core/neighbour.c
@@ -1301,10 +1301,7 @@ struct neigh_parms *neigh_parms_alloc(struct net_device *dev,
    struct neigh_parms *p, *ref;
    struct net *net;
```

```

- net = &init_net;
- if (dev)
- net = dev->nd_net;
-
+ net = dev->nd_net;
ref = lookup_neigh_params(tbl, net, 0);
if (!ref)
return NULL;
@@ @ -1316,15 +1313,14 @@ struct neigh_parms *neigh_parms_alloc(struct net_device *dev,
INIT_RCU_HEAD(&p->rcu_head);
p->reachable_time =
neigh_rand_reach_time(p->base_reachable_time);
- if (dev) {
- if (dev->neigh_setup && dev->neigh_setup(dev, p)) {
- kfree(p);
- return NULL;
- }

- dev_hold(dev);
- p->dev = dev;
+ if (dev->neigh_setup && dev->neigh_setup(dev, p)) {
+ kfree(p);
+ return NULL;
}
+
+ dev_hold(dev);
+ p->dev = dev;
p->net = hold_net(net);
p->sysctl_table = NULL;
write_lock_bh(&tbl->lock);
--
```

1.5.3.rc5

---



---

Subject: [PATCH 5/8 net-2.6.25] [ARP] Remove forward declaration of  
neigh\_changeaddr.

Posted by [den](#) on Mon, 14 Jan 2008 14:59:58 GMT

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---

No need for this. It is declared in the neighbour.h

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

---

net/core/neighbour.c | 1 -
1 files changed, 0 insertions(+), 1 deletions(-)

diff --git a/net/core/neighbour.c b/net/core/neighbour.c
index 2eab6a5..9b0b773 100644

```
--- a/net/core/neighbour.c
+++ b/net/core/neighbour.c
@@ -59,7 +59,6 @@ static void neigh_timer_handler(unsigned long arg);
static void __neigh_notify(struct neighbour *n, int type, int flags);
static void neigh_update_notify(struct neighbour *neigh);
static int pneigh_ifdown(struct neigh_table *tbl, struct net_device *dev);
-void neigh_changeaddr(struct neigh_table *tbl, struct net_device *dev);

static struct neigh_table *neigh_tables;
#endif CONFIG_PROC_FS
```

--  
1.5.3.rc5

---

---

Subject: [PATCH 6/8 net-2.6.25] [ARP] neigh\_parms\_put(destroy) are essentially local to core/neighbour.c.

Posted by [den](#) on Mon, 14 Jan 2008 14:59:59 GMT

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---

Make them static.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

```
-- 
include/net/neighbour.h |  7 -----
net/core/neighbour.c   | 11 ++++++++
2 files changed, 10 insertions(+), 8 deletions(-)
```

```
diff --git a/include/net/neighbour.h b/include/net/neighbour.h
index a0d42a5..ebbf50 100644
--- a/include/net/neighbour.h
+++ b/include/net/neighbour.h
@@ -213,7 +213,6 @@ extern struct neighbour *neigh_event_ns(struct neigh_table *tbl,
```

extern struct neigh\_parms \*neigh\_parms\_alloc(struct net\_device \*dev, struct neigh\_table \*tbl);  
extern void neigh\_parms\_release(struct neigh\_table \*tbl, struct neigh\_parms \*parms);  
-extern void neigh\_parms\_destroy(struct neigh\_parms \*parms);  
extern unsigned long neigh\_rand\_reach\_time(unsigned long base);

extern void pneigh\_enqueue(struct neigh\_table \*tbl, struct neigh\_parms \*p,  
@@ -254,12 +253,6 @@ static inline void \_\_neigh\_parms\_put(struct neigh\_parms \*parms)  
 atomic\_dec(&parms->refcnt);  
}

-static inline void neigh\_parms\_put(struct neigh\_parms \*parms)  
-{  
- if (atomic\_dec\_and\_test(&parms->refcnt))  
- neigh\_parms\_destroy(parms);  
-}

```

static inline struct neigh_parms *neigh_parms_clone(struct neigh_parms *parms)
{
    atomic_inc(&parms->refcnt);
diff --git a/net/core/neighbour.c b/net/core/neighbour.c
index 9b0b773..41394db 100644
--- a/net/core/neighbour.c
+++ b/net/core/neighbour.c
@@ -55,6 +55,8 @@ 

#define PNEIGH_HASHMASK 0xF

+static inline void neigh_parms_put(struct neigh_parms *parms);
+
 static void neigh_timer_handler(unsigned long arg);
 static void __neigh_notify(struct neighbour *n, int type, int flags);
 static void neigh_update_notify(struct neighbour *neigh);
@@ -1348,7 +1350,7 @@ void neigh_parms_release(struct neigh_table *tbl, struct neigh_parms
*parms)
    NEIGH_PRINTK1("neigh_parms_release: not found\n");
}

-void neigh_parms_destroy(struct neigh_parms *parms)
+static void neigh_parms_destroy(struct neigh_parms *parms)
{
    release_net(parms->net);
    if (parms->dev)
@@ -1356,6 +1358,13 @@ void neigh_parms_destroy(struct neigh_parms *parms)
    kfree(parms);
}

+static inline void neigh_parms_put(struct neigh_parms *parms)
+{
+ if (atomic_dec_and_test(&parms->refcnt))
+    neigh_parms_destroy(parms);
+}
+
+
 static struct lock_class_key neigh_table_proxy_queue_class;

void neigh_table_init_no_netlink(struct neigh_table *tbl)
--
```

1.5.3.rc5

---



---

Subject: [PATCH 7/8 net-2.6.25] [IPV4] Remove extra argument from arp\_ignore.  
 Posted by [den](#) on Mon, 14 Jan 2008 15:00:00 GMT

arp\_ignore has two arguments: dev & in\_dev. dev is used for inet\_confirm\_addr calling only.

inet\_confirm\_addr, in turn, either gets in\_dev from the device passed or iterates over all network devices if the device passed is NULL. It seems logical to directly pass in\_dev into inet\_confirm\_addr.

Signed-off-by: Denis V. Lunev <den@openvz.org>

---

```
include/linux/inetdevice.h |  2 ++
net/ipv4/arp.c           | 11 +++++-----
net/ipv4/devinet.c       | 17 +++++-----
3 files changed, 12 insertions(+), 18 deletions(-)
```

```
diff --git a/include/linux/inetdevice.h b/include/linux/inetdevice.h
index b3c5081..45f3731 100644
--- a/include/linux/inetdevice.h
+++ b/include/linux/inetdevice.h
@@ -135,7 +135,7 @@ extern int devinet_ioctl(unsigned int cmd, void __user *);
extern void devinet_init(void);
extern struct in_device *inetdev_by_index(int);
extern __be32 inet_select_addr(const struct net_device *dev, __be32 dst, int scope);
-extern __be32 inet_confirm_addr(const struct net_device *dev, __be32 dst, __be32 local, int
scope);
+extern __be32 inet_confirm_addr(struct in_device *in_dev, __be32 dst, __be32 local, int scope);
extern struct in_ifaddr *inet_ifa_byprefix(struct in_device *in_dev, __be32 prefix, __be32 mask);
```

```
static __inline__ int inet_ifa_match(__be32 addr, struct in_ifaddr *ifa)
```

```
diff --git a/net/ipv4/arp.c b/net/ipv4/arp.c
```

```
index e944d98..f38e1a9 100644
```

```
--- a/net/ipv4/arp.c
```

```
+++ b/net/ipv4/arp.c
```

```
@@ -382,8 +382,7 @@ static void arp_solicit(struct neighbour *neigh, struct sk_buff *skb)
```

```
    read_unlock_bh(&neigh->lock);
```

```
}
```

```
-static int arp_ignore(struct in_device *in_dev, struct net_device *dev,
```

```
    __be32 sip, __be32 tip)
```

```
+static int arp_ignore(struct in_device *in_dev, __be32 sip, __be32 tip)
```

```
{
```

```
    int scope;
```

```
@@ -403,7 +402,7 @@ static int arp_ignore(struct in_device *in_dev, struct net_device *dev,
case 3: /* Do not reply for scope host addresses */
```

```
    sip = 0;
```

```
    scope = RT_SCOPE_LINK;
```

```
-    dev = NULL;
```

```

+ in_dev = NULL;
break;
case 4: /* Reserved */
case 5:
@@ -415,7 +414,7 @@ static int arp_ignore(struct in_device *in_dev, struct net_device *dev,
default:
return 0;
}
- return !inet_confirm_addr(dev, sip, tip, scope);
+ return !inet_confirm_addr(in_dev, sip, tip, scope);
}

static int arp_filter(__be32 sip, __be32 tip, struct net_device *dev)
@@ -807,7 +806,7 @@ static int arp_process(struct sk_buff *skb)
if (sip == 0) {
if (arp->ar_op == htons(ARPOP_REQUEST) &&
inet_addr_type(&init_net, tip) == RTN_LOCAL &&
- !arp_ignore(in_dev, dev, sip, tip))
+ !arp_ignore(in_dev, sip, tip))
arp_send(ARPOP_REPLY, ETH_P_ARP, sip, dev, tip, sha,
dev->dev_addr, sha);
goto out;
@@ -825,7 +824,7 @@ static int arp_process(struct sk_buff *skb)
int dont_send = 0;

if (!dont_send)
- dont_send |= arp_ignore(in_dev, dev, sip, tip);
+ dont_send |= arp_ignore(in_dev, sip, tip);
if (!dont_send && IN_DEV_ARPFILTER(in_dev))
dont_send |= arp_filter(sip, tip, dev);
if (!dont_send)
diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c
index 03db15b..dc1665a 100644
--- a/net/ipv4/devinet.c
+++ b/net/ipv4/devinet.c
@@ -968,24 +968,19 @@ static __be32 confirm_addr_indev(struct in_device *in_dev, __be32
dst,
/*
 * Confirm that local IP address exists using wildcards:
- * - dev: only on this interface, 0=any interface
+ * - in_dev: only on this interface, 0=any interface
 * - dst: only in the same subnet as dst, 0=any dst
 * - local: address, 0=autoselect the local address
 * - scope: maximum allowed scope value for the local address
*/
-__be32 inet_confirm_addr(const struct net_device *dev, __be32 dst, __be32 local, int scope)
+__be32 inet_confirm_addr(struct in_device *in_dev,

```

```

+ __be32 dst, __be32 local, int scope)
{
__be32 addr = 0;
- struct in_device *in_dev;
-
- if (dev) {
- rCU_read_lock();
- if ((in_dev = __in_dev_get_rcu(dev)))
- addr = confirm_addr_indev(in_dev, dst, local, scope);
- rCU_read_unlock();
+ struct net_device *dev;

- return addr;
- }
+ if (in_dev != NULL)
+ return confirm_addr_indev(in_dev, dst, local, scope);

```

```

read_lock(&dev_base_lock);
rCU_read_lock();
--
```

1.5.3.rc5

---



---

Subject: [PATCH 8/8 net-2.6.25] [NETNS] Process inet\_confirm\_addr in the correct namespace.

Posted by [den](#) on Mon, 14 Jan 2008 15:00:01 GMT

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---

inet\_confirm\_addr can be called with NULL in\_dev from arp\_ignore iff scope is RT\_SCOPE\_LINK.

Lets always pass the device and check for RT\_SCOPE\_LINK scope inside inet\_confirm\_addr. This let us take network namespace from in\_device a need for an additional argument.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

---

```

net/ipv4/arp.c | 1 -
net/ipv4/devinet.c | 6 +++++-
2 files changed, 4 insertions(+), 3 deletions(-)
```

```

diff --git a/net/ipv4/arp.c b/net/ipv4/arp.c
index f38e1a9..b715ec0 100644
--- a/net/ipv4/arp.c
+++ b/net/ipv4/arp.c
@@ -402,7 +400,6 @@ static int arp_ignore(struct in_device *in_dev, __be32 sip, __be32 tip)
 case 3: /* Do not reply for scope host addresses */
 sip = 0;
```

```

scope = RT_SCOPE_LINK;
- in_dev = NULL;
break;
case 4: /* Reserved */
case 5:
diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c
index dc1665a..4569c69 100644
--- a/net/ipv4/devinet.c
+++ b/net/ipv4/devinet.c
@@ -978,13 +978,15 @@ __be32 inet_confirm_addr(struct in_device *in_dev,
{
__be32 addr = 0;
struct net_device *dev;
+ struct net *net;

- if (in_dev != NULL)
+ if (scope != RT_SCOPE_LINK)
    return confirm_addr_indev(in_dev, dst, local, scope);

+ net = in_dev->dev->nd_net;
read_lock(&dev_base_lock);
rcu_read_lock();
- for_each_netdev(&init_net, dev) {
+ for_each_netdev(net, dev) {
if ((in_dev == __in_dev_get_rcu(dev))) {
    addr = confirm_addr_indev(in_dev, dst, local, scope);
    if (addr)
--
```

1.5.3.rc5

---



---

**Subject: Re: [PATCH 6/8 net-2.6.25] [ARP] neigh\_parms\_put(destroy) are essentially local to core/neighbour.c.**

**Posted by [davem](#) on Tue, 15 Jan 2008 07:04:38 GMT**

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From: "Denis V. Lunev" <[den@openvz.org](mailto:den@openvz.org)>

Date: Mon, 14 Jan 2008 17:59:59 +0300

> Make them static.  
>  
> Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

It's completely awkward to put the inline after all  
the call sites. A non-global-optimizing compiler  
won't be able to even inline it.

I've reworked this patch as follows when applying

it.

```
diff --git a/include/net/neighbour.h b/include/net/neighbour.h
index a0d42a5..ebbf50 100644
--- a/include/net/neighbour.h
+++ b/include/net/neighbour.h
@@ -213,7 +213,6 @@ extern struct neighbour *neigh_event_ns(struct neigh_table *tbl,
extern struct neigh_parms *neigh_parms_alloc(struct net_device *dev, struct neigh_table *tbl);
extern void neigh_parms_release(struct neigh_table *tbl, struct neigh_parms *parms);
-extern void neigh_parms_destroy(struct neigh_parms *parms);
extern unsigned long neigh_rand_reach_time(unsigned long base);

extern void pneigh_enqueue(struct neigh_table *tbl, struct neigh_parms *p,
@@ -254,12 +253,6 @@ static inline void __neigh_parms_put(struct neigh_parms *parms)
    atomic_dec(&parms->refcnt);
}

-static inline void neigh_parms_put(struct neigh_parms *parms)
-{
- if (atomic_dec_and_test(&parms->refcnt))
-   neigh_parms_destroy(parms);
-}
-
 static inline struct neigh_parms *neigh_parms_clone(struct neigh_parms *parms)
{
    atomic_inc(&parms->refcnt);
diff --git a/net/core/neighbour.c b/net/core/neighbour.c
index 9b0b773..7cc772a 100644
--- a/net/core/neighbour.c
+++ b/net/core/neighbour.c
@@ -577,6 +577,13 @@ static int pneigh_ifdown(struct neigh_table *tbl, struct net_device *dev)
    return -ENOENT;
}

+static void neigh_parms_destroy(struct neigh_parms *parms);
+
+static inline void neigh_parms_put(struct neigh_parms *parms)
+{
+ if (atomic_dec_and_test(&parms->refcnt))
+   neigh_parms_destroy(parms);
+}

/*
 * neighbour must already be out of the table;
@@ -1348,7 +1355,7 @@ void neigh_parms_release(struct neigh_table *tbl, struct neigh_parms
*parms)
    NEIGH_PRINTK1("neigh_parms_release: not found\n");
```

```
}

-void neigh_parms_destroy(struct neigh_parms *parms)
+static void neigh_parms_destroy(struct neigh_parms *parms)
{
    release_net(parms->net);
    if (parms->dev)
```

---

---

Subject: Re: [PATCH 0/8 2.6.25] a set of small code cleanups

Posted by [davem](#) on Tue, 15 Jan 2008 07:06:39 GMT

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---

From: "Denis V. Lunev" <[den@openvz.org](mailto:den@openvz.org)>

Date: Mon, 14 Jan 2008 17:59:23 +0300

> This set contains a set of small improvements found in IPv4 code during  
> preparations to support ARP in the network namespace. These fixes are  
> mostly independent except 2 last ones.  
>  
> Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

All applied, thanks Denis.

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