
Subject: [PATCH net-2.6.25] Cleanup sysctl manipulations in devinet.c

Posted by [Pavel Emelianov](#) on Fri, 07 Dec 2007 16:25:59 GMT

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This includes:

- * moving neigh_sysctl_(un)register calls inside devinet_sysctl_(un)register ones, as they are always called in pairs;
- * making __devinet_sysctl_unregister() to unregister the ipv4_devconf struct, while original devinet_sysctl_unregister() works with the in_device to handle both - devconf and neigh sysctls;
- * make stubs for CONFIG_SYSCTL=n case to get rid of in-code ifdefs.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c

index 0b5f042..872883e 100644

--- a/net/ipv4/devinet.c

+++ b/net/ipv4/devinet.c

@@ -99,7 +99,14 @@ static void inet_del_ifa(struct in_device *in_dev, struct in_ifaddr **ifap,
int destroy);

#ifdef CONFIG_SYSCTL

static void devinet_sysctl_register(struct in_device *idev);

-static void devinet_sysctl_unregister(struct ipv4_devconf *p);

+static void devinet_sysctl_unregister(struct in_device *idev);

+#else

+static inline void devinet_sysctl_register(struct in_device *idev)

+{

+}

+static inline void devinet_sysctl_unregister(struct in_device *idev)

+{

+}

#endif

/* Locks all the inet devices. */

@@ -163,17 +170,10 @@ static struct in_device *inetdev_init(struct net_device *dev)
goto out_kfree;

/* Reference in_dev->dev */

dev_hold(dev);

-#ifdef CONFIG_SYSCTL

- neigh_sysctl_register(dev, in_dev->arp_parms, NET_IPV4,

- NET_IPV4_NEIGH, "ipv4", NULL, NULL);

-#endif

```

-
/* Account for reference dev->ip_ptr (below) */
in_dev_hold(in_dev);

-#ifdef CONFIG_SYSCTL
    devinet_sysctl_register(in_dev);
-#endif
    ip_mc_init_dev(in_dev);
    if (dev->flags & IFF_UP)
        ip_mc_up(in_dev);
@@ -212,15 +212,9 @@ static void inetdev_destroy(struct in_device *in_dev)
    inet_free_ifa(ifa);
}

-#ifdef CONFIG_SYSCTL
- devinet_sysctl_unregister(&in_dev->cnf);
-#endif
-
    dev->ip_ptr = NULL;

-#ifdef CONFIG_SYSCTL
- neigh_sysctl_unregister(in_dev->arp_parms);
-#endif
+ devinet_sysctl_unregister(in_dev);
    neigh_parms_release(&arp_tbl, in_dev->arp_parms);
    arp_ifdown(dev);

@@ -1114,13 +1108,8 @@ static int inetdev_event(struct notifier_block *this, unsigned long
event,
    /*
        inetdev_changename(dev, in_dev);

-#ifdef CONFIG_SYSCTL
- devinet_sysctl_unregister(&in_dev->cnf);
- neigh_sysctl_unregister(in_dev->arp_parms);
- neigh_sysctl_register(dev, in_dev->arp_parms, NET_IPV4,
-     NET_IPV4_NEIGH, "ipv4", NULL, NULL);
+ devinet_sysctl_unregister(in_dev);
    devinet_sysctl_register(in_dev);
-#endif
    break;
}
out:
@@ -1519,21 +1508,31 @@ out:
    return;
}

+static void __devinet_sysctl_unregister(struct ipv4_devconf *cnf)

```

```

+{
+ struct devinet_sysctl_table *t = cnf->sysctl;
+
+ if (t == NULL)
+ return;
+
+ cnf->sysctl = NULL;
+ unregister_sysctl_table(t->sysctl_header);
+ kfree(t->dev_name);
+ kfree(t);
+}
+
static void devinet_sysctl_register(struct in_device *idev)
{
- return __devinet_sysctl_register(idev->dev->name, idev->dev->ifindex,
+ neigh_sysctl_register(idev->dev, idev->arp_parms, NET_IPV4,
+ NET_IPV4_NEIGH, "ipv4", NULL, NULL);
+ __devinet_sysctl_register(idev->dev->name, idev->dev->ifindex,
+ &idev->cnf);
}

-static void devinet_sysctl_unregister(struct ipv4_devconf *p)
+static void devinet_sysctl_unregister(struct in_device *idev)
{
- if (p->sysctl) {
- struct devinet_sysctl_table *t = p->sysctl;
- p->sysctl = NULL;
- unregister_sysctl_table(t->sysctl_header);
- kfree(t->dev_name);
- kfree(t);
- }
+ __devinet_sysctl_unregister(&idev->cnf);
+ neigh_sysctl_unregister(idev->arp_parms);
+ }
+ #endif

--
1.5.3.4

```
