
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.

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```
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);
#endif 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);
#ifndef 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);

#ifndef 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);
}

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

#ifndef 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);

#ifndef 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
