
Subject: [PATCH net-2.6.25 11/11][IPV6] Eliminate difference in actions of sysctl and proc handler for conf.a

Posted by [Pavel Emelianov](#) on Tue, 04 Dec 2007 10:19:12 GMT

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The only difference in this case is that updating all.forwarding causes the update in default.forwarding when done via proc, but not via the system call.

Besides, this consolidates a good portion of code.

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```
diff --git a/net/ipv6/addrconf.c b/net/ipv6/addrconf.c
index dbff389..95cf3aa 100644
--- a/net/ipv6/addrconf.c
+++ b/net/ipv6/addrconf.c
@@ -476,6 +476,21 @@ static void addrconf_forward_change(void)
 }
 read_unlock(&dev_base_lock);
 }
+
+static void addrconf_fixup_forwarding(struct ctl_table *table, int *p, int old)
+{
+ if (p == &ipv6_devconf_dflt.forwarding)
+ return;
+
+ if (p == &ipv6_devconf.forwarding) {
+ ipv6_devconf_dflt.forwarding = ipv6_devconf.forwarding;
+ addrconf_forward_change();
+ } else if ((*p) ^ (old))
+ dev_forward_change((struct inet6_dev *)table->extra1);
+
+ if (*p)
+ rt6_purge_dflt_routers();
+}
#endif

/* Nobody refers to this ifaddr, destroy it */
@@ -3771,6 +3786,8 @@ int addrconf_sysctl_forward(ctl_table *ctl, int write, struct file * filp,

ret = proc_dointvec(ctl, write, filp, buffer, lenp, ppos);

- if (write && valp != &ipv6_devconf_dflt.forwarding) {
- if (valp != &ipv6_devconf.forwarding) {
```

```

- if ((!*valp) ^ (!val)) {
-     struct inet6_dev *idev = (struct inet6_dev *)ctl->extra1;
-     if (idev == NULL)
-         return ret;
-     dev_forward_change(idev);
- }
- } else {
-     ipv6_devconf_dflt.forwarding = ipv6_devconf.forwarding;
-     addrconf_forward_change();
- }
- if (*valp)
-     rt6_purge_dflt_routers();
- }
-
+ if (write)
+     addrconf_fixup_forwarding(ctl, valp, val);
+     return ret;
+ }

```

```

@@ -3797,6 +3798,7 @@ static int addrconf_sysctl_forward_strategy(ctl_table *table,
    void __user *newval, size_t newlen)

```

```

{
    int *valp = table->data;
+ int val = *valp;
    int new;

```

```

    if (!newval || !newlen)
@@ -3821,26 +3823,8 @@ static int addrconf_sysctl_forward_strategy(ctl_table *table,
    }
}

```

```

- if (valp != &ipv6_devconf_dflt.forwarding) {
- if (valp != &ipv6_devconf.forwarding) {
-     struct inet6_dev *idev = (struct inet6_dev *)table->extra1;
-     int changed;
-     if (unlikely(idev == NULL))
-         return -ENODEV;
-     changed = (!*valp) ^ (!new);
-     *valp = new;
-     if (changed)
-         dev_forward_change(idev);
- } else {
-     *valp = new;
-     addrconf_forward_change();
- }
-
- if (*valp)
-     rt6_purge_dflt_routers();

```

```
- } else
- *valp = new;
-
+ *valp = new;
+ addrconf_fixup_forwarding(table, valp, val);
  return 1;
}
```

--

1.5.3.4
