
Subject: [PATCH net-2.6.25 3/6][DECNET] Switch to using ctl_paths.

Posted by [Pavel Emelianov](#) on Tue, 08 Jan 2008 15:59:59 GMT

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The decnet includes two places to patch. The first one is the net/decnet table itself, and it is patched just like other subsystems in the first patch in this series.

The second place is a bit more complex - it is the net/decnet/conf/xxx entries,. similar to those in ipv4/devinet.c and ipv6/addrconf.c. This code is made similar to those in ipv[46].

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

```
net/decnet/dn_dev.c      | 52 ++++++++-----
net/decnet/sysctl_net_decnet.c | 23 +++-----
2 files changed, 20 insertions(+), 55 deletions(-)
```

```
diff --git a/net/decnet/dn_dev.c b/net/decnet/dn_dev.c
```

```
index 39c89c6..fb884e5 100644
```

```
--- a/net/decnet/dn_dev.c
```

```
+++ b/net/decnet/dn_dev.c
```

```
@@ -173,10 +173,6 @@ static int dn_forwarding_sysctl(ctl_table *table, int __user *name, int
nlen,
```

```
static struct dn_dev_sysctl_table {
    struct ctl_table_header *sysctl_header;
```

```
    ctl_table dn_dev_vars[5];
```

```
- ctl_table dn_dev_dev[2];
```

```
- ctl_table dn_dev_conf_dir[2];
```

```
- ctl_table dn_dev_proto_dir[2];
```

```
- ctl_table dn_dev_root_dir[2];
```

```
} dn_dev_sysctl = {
```

```
    NULL,
```

```
{
```

```
@@ -224,30 +220,6 @@ static struct dn_dev_sysctl_table {
```

```
},
```

```
{0}
```

```
},
```

```
- {{
```

```
- .ctl_name = 0,
```

```
- .procname = "",
```

```
- .mode = 0555,
```

```
- .child = dn_dev_sysctl.dn_dev_vars
```

```
- }, {0}},
```

```
- {{
```

```

- .ctl_name = NET_DECNET_CONF,
- .procname = "conf",
- .mode = 0555,
- .child = dn_dev_sysctl.dn_dev_dev
- }, {0}},
- {{
- .ctl_name = NET_DECNET,
- .procname = "decnet",
- .mode = 0555,
- .child = dn_dev_sysctl.dn_dev_conf_dir
- }, {0}},
- {{
- .ctl_name = CTL_NET,
- .procname = "net",
- .mode = 0555,
- .child = dn_dev_sysctl.dn_dev_proto_dir
- }, {0}}
};

```

```

static void dn_dev_sysctl_register(struct net_device *dev, struct dn_dev_parms *parms)
@@ -255,6 +227,16 @@ static void dn_dev_sysctl_register(struct net_device *dev, struct
dn_dev_parms *
    struct dn_dev_sysctl_table *t;
    int i;

```

```

+ #define DN_CTL_PATH_DEV 3

```

```

+
+ struct ctl_path dn_ctl_path[] = {
+ { .procname = "net", .ctl_name = CTL_NET, },
+ { .procname = "decnet", .ctl_name = NET_DECNET, },
+ { .procname = "conf", .ctl_name = NET_DECNET_CONF, },
+ { /* to be set */ },
+ { },
+ };
+

```

```

    t = kmemdup(&dn_dev_sysctl, sizeof(*t), GFP_KERNEL);
    if (t == NULL)
        return;

```

```

@@ -265,20 +247,16 @@ static void dn_dev_sysctl_register(struct net_device *dev, struct
dn_dev_parms *
    }

```

```

    if (dev) {
- t->dn_dev_dev[0].procname = dev->name;
- t->dn_dev_dev[0].ctl_name = dev->ifindex;
+ dn_ctl_path[DN_CTL_PATH_DEV].procname = dev->name;
+ dn_ctl_path[DN_CTL_PATH_DEV].ctl_name = dev->ifindex;
    } else {

```

```

- t->dn_dev_dev[0].procname = parms->name;
- t->dn_dev_dev[0].ctl_name = parms->ctl_name;
+ dn_ctl_path[DN_CTL_PATH_DEV].procname = parms->name;
+ dn_ctl_path[DN_CTL_PATH_DEV].ctl_name = parms->ctl_name;
}

- t->dn_dev_dev[0].child = t->dn_dev_vars;
- t->dn_dev_conf_dir[0].child = t->dn_dev_dev;
- t->dn_dev_proto_dir[0].child = t->dn_dev_conf_dir;
- t->dn_dev_root_dir[0].child = t->dn_dev_proto_dir;
t->dn_dev_vars[0].extra1 = (void *)dev;

- t->sysctl_header = register_sysctl_table(t->dn_dev_root_dir);
+ t->sysctl_header = register_sysctl_paths(dn_ctl_path, t->dn_dev_vars);
if (t->sysctl_header == NULL)
    kfree(t);
else
diff --git a/net/decnet/sysctl_net_decnet.c b/net/decnet/sysctl_net_decnet.c
index ae354a4..228067c 100644
--- a/net/decnet/sysctl_net_decnet.c
+++ b/net/decnet/sysctl_net_decnet.c
@@ -470,28 +470,15 @@ static ctl_table dn_table[] = {
    {0}
};

-static ctl_table dn_dir_table[] = {
- {
- .ctl_name = NET_DECNET,
- .procname = "decnet",
- .mode = 0555,
- .child = dn_table},
- {0}
-};
-
-static ctl_table dn_root_table[] = {
- {
- .ctl_name = CTL_NET,
- .procname = "net",
- .mode = 0555,
- .child = dn_dir_table
- },
- {0}
+static struct ctl_path dn_path[] = {
+ { .procname = "net", .ctl_name = CTL_NET, },
+ { .procname = "decnet", .ctl_name = NET_DECNET, },
+ { }
};

```

```
void dn_register_sysctl(void)
{
- dn_table_header = register_sysctl_table(dn_root_table);
+ dn_table_header = register_sysctl_paths(dn_path, dn_table);
}
```

```
void dn_unregister_sysctl(void)
```
