
Subject: [PATCH net-2.6.25 4/6][IPV4] Use ctl paths to register net/ipv4/ table

Posted by [Pavel Emelianov](#) on Sat, 01 Dec 2007 13:05:53 GMT

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This is the same as I did for the net/core/ table in the second patch in his series: use the paths and isolate the whole table in the .c file.

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```
---
diff --git a/include/net/ip.h b/include/net/ip.h
index 83fb9f1..7e1dd67 100644
--- a/include/net/ip.h
+++ b/include/net/ip.h
@@ -393,6 +393,4 @@ int ipv4_doint_and_flush_strategy(ctl_table *table, int __user *name, int
nlen,
extern int ip_misc_proc_init(void);
#endif

-extern struct ctl_table ipv4_table[];
-
#endif /* _IP_H */
diff --git a/net/ipv4/sysctl_net_ipv4.c b/net/ipv4/sysctl_net_ipv4.c
index 3546424..bfd0dec 100644
--- a/net/ipv4/sysctl_net_ipv4.c
+++ b/net/ipv4/sysctl_net_ipv4.c
@@ -13,6 +13,7 @@
#include <linux/igmp.h>
#include <linux/inetdevice.h>
#include <linux/seqlock.h>
+#include <linux/init.h>
#include <net/snmp.h>
#include <net/icmp.h>
#include <net/ip.h>
@@ -247,7 +248,7 @@ static int strategy_allowed_congestion_control(ctl_table *table, int __user
*nam

}

-ctl_table ipv4_table[] = {
+static struct ctl_table ipv4_table[] = {
{
    .ctl_name = NET_IPV4_TCP_TIMESTAMP,
    .procname = "tcp_timestamps",
@@ -878,3 +879,19 @@ ctl_table ipv4_table[] = {
},

```

```

    { .ctl_name = 0 }
};
+
+static __initdata struct ctl_path net_ipv4_path[] = {
+ { .procname = "net", .ctl_name = CTL_NET, },
+ { .procname = "ipv4", .ctl_name = NET_IPV4, },
+ { },
+};
+
+static __init int sysctl_ipv4_init(void)
+{
+ struct ctl_table_header *hdr;
+
+ hdr = register_sysctl_paths(net_ipv4_path, ipv4_table);
+ return hdr == NULL ? -ENOMEM : 0;
+}
+
+__initcall(sysctl_ipv4_init);
diff --git a/net/sysctl_net.c b/net/sysctl_net.c
index 747fc55..a4f0ed8 100644
--- a/net/sysctl_net.c
+++ b/net/sysctl_net.c
@@ -31,14 +31,6 @@
#endif

```

```

struct ctl_table net_table[] = {
#ifdef CONFIG_INET
- {
- .ctl_name = NET_IPV4,
- .procname = "ipv4",
- .mode = 0555,
- .child = ipv4_table
- },
#endif
#ifdef CONFIG_TR
{
    .ctl_name = NET_TR,
}
--

```

1.5.3.4