
Subject: [PATCH net-2.6.25 5/19] [IPV4] Check fib4_rules_init failure.

Posted by [den](#) on Wed, 19 Dec 2007 15:24:35 GMT

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This adds error paths into both versions of fib4_rules_init (with/without CONFIG_IP_MULTIPLE_TABLES) and returns error code to the caller.

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```
---
include/net/ip_fib.h | 2 +-
net/ipv4/fib_frontend.c | 18 ++++++++
net/ipv4/fib_rules.c | 14 ++++++
3 files changed, 28 insertions(+), 6 deletions(-)

diff --git a/include/net/ip_fib.h b/include/net/ip_fib.h
index f74cbb2..cbff18d 100644
--- a/include/net/ip_fib.h
+++ b/include/net/ip_fib.h
@@ -186,7 +186,7 @@ static inline void fib_select_default(const struct flowi *flp, struct fib_result
 }

#else /* CONFIG_IP_MULTIPLE_TABLES */
-extern void __init fib4_rules_init(void);
+extern int __init fib4_rules_init(void);

#ifdef CONFIG_NET_CLS_ROUTE
extern u32 fib_rules_tclass(struct fib_result *res);
diff --git a/net/ipv4/fib_frontend.c b/net/ipv4/fib_frontend.c
index b03c4c6..82d0e00 100644
--- a/net/ipv4/fib_frontend.c
+++ b/net/ipv4/fib_frontend.c
@@ -59,12 +59,24 @@ struct fib_table *ip_fib_main_table;
#define FIB_TABLE_HASHSZ 1
static struct hlist_head fib_table_hash[FIB_TABLE_HASHSZ];

-static void __init fib4_rules_init(void)
+static int __init fib4_rules_init(void)
{
    ip_fib_local_table = fib_hash_init(RT_TABLE_LOCAL);
-    hlist_add_head_rcu(&ip_fib_local_table->tb_hlist, &fib_table_hash[0]);
+    if (ip_fib_local_table == NULL)
+        return -ENOMEM;
+
    ip_fib_main_table = fib_hash_init(RT_TABLE_MAIN);
+    if (ip_fib_main_table == NULL)
+        goto fail;
+
+}
```

```

+ hlist_add_head_rcu(&ip_fib_local_table->tb_hlist, &fib_table_hash[0]);
+ hlist_add_head_rcu(&ip_fib_main_table->tb_hlist, &fib_table_hash[0]);
+ return 0;
+
+fail:
+ kfree(ip_fib_local_table);
+ ip_fib_local_table = NULL;
+ return -ENOMEM;
}
#else

```

```

@@ -941,7 +953,7 @@ void __init ip_fib_init(void)
for (i = 0; i < FIB_TABLE_HASHSZ; i++)
INIT_HLIST_HEAD(&fib_table_hash[i]);

```

```

- fib4_rules_init();
+ BUG_ON(fib4_rules_init());

```

```

register_netdevice_notifier(&fib_netdev_notifier);
register_inetaddr_notifier(&fib_inetaddr_notifier);
diff --git a/net/ipv4/fib_rules.c b/net/ipv4/fib_rules.c
index afe669d..0751734 100644

```

```

--- a/net/ipv4/fib_rules.c

```

```

+++ b/net/ipv4/fib_rules.c

```

```

@@ -311,8 +311,18 @@ static int __init fib_default_rules_init(void)
return 0;
}

```

```

-void __init fib4_rules_init(void)
+int __init fib4_rules_init()
{
- BUG_ON(fib_default_rules_init());
+ int err;
+
+ fib_rules_register(&init_net, &fib4_rules_ops);
+ err = fib_default_rules_init();
+ if (err < 0)
+ goto fail;
+ return 0;
+
+fail:
+ /* also cleans all rules already added */
+ fib_rules_unregister(&init_net, &fib4_rules_ops);
+ return err;
}

```

```

--

```

1.5.3.rc5