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Subject: [PATCH] Compact some ifdefs in the fib code  
Posted by [Pavel Emelianov](#) on Fri, 19 Oct 2007 14:12:26 GMT  
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There are places that check for CONFIG\_IP\_MULTIPLE\_TABLES twice in the same file, but the internals of these #ifdefs can be merged.

As a side effect - remove one ifdef from inside a function.

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

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```
diff --git a/include/net/ip_fib.h b/include/net/ip_fib.h
index 8cad777..ed514bf 100644
--- a/include/net/ip_fib.h
+++ b/include/net/ip_fib.h
@@ -185,6 +185,12 @@ 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);
+
+#ifdef CONFIG_NET_CLS_ROUTE
+extern u32 fib_rules_tclass(struct fib_result *res);
+#endif
+
#define ip_fib_local_table fib_get_table(RT_TABLE_LOCAL)
#define ip_fib_main_table fib_get_table(RT_TABLE_MAIN)

@@ -214,15 +220,6 @@ extern __be32 __fib_res_prefsrc(struct fib_result *res);
/* Exported by fib_hash.c */
extern struct fib_table *fib_hash_init(u32 id);

-#ifdef CONFIG_IP_MULTIPLE_TABLES
-extern void __init fib4_rules_init(void);
-
-#ifdef CONFIG_NET_CLS_ROUTE
-extern u32 fib_rules_tclass(struct fib_result *res);
-#endif
-
-#endif

static inline void fib_combine_itag(u32 *itag, struct fib_result *res)
{
#ifdef CONFIG_NET_CLS_ROUTE
```

```

diff --git a/net/ipv4/fib_frontend.c b/net/ipv4/fib_frontend.c
index 78b514b..f7f0e37 100644
--- a/net/ipv4/fib_frontend.c
+++ b/net/ipv4/fib_frontend.c
@@ -59,6 +59,13 @@ 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)
+{
+ ip_fib_local_table = fib_hash_init(RT_TABLE_LOCAL);
+ hlist_add_head_rcu(&ip_fib_local_table->tb_hlist, &fib_table_hash[0]);
+ ip_fib_main_table = fib_hash_init(RT_TABLE_MAIN);
+ hlist_add_head_rcu(&ip_fib_main_table->tb_hlist, &fib_table_hash[0]);
+}
#else

#define FIB_TABLE_HASHSZ 256
@@ -903,14 +910,8 @@ void __init ip_fib_init(void)

for (i = 0; i < FIB_TABLE_HASHSZ; i++)
INIT_HLIST_HEAD(&fib_table_hash[i]);
-#ifndef CONFIG_IP_MULTIPLE_TABLES
- ip_fib_local_table = fib_hash_init(RT_TABLE_LOCAL);
- hlist_add_head_rcu(&ip_fib_local_table->tb_hlist, &fib_table_hash[0]);
- ip_fib_main_table = fib_hash_init(RT_TABLE_MAIN);
- hlist_add_head_rcu(&ip_fib_main_table->tb_hlist, &fib_table_hash[0]);
-#else
+
fib4_rules_init();
-#endif

register_netdevice_notifier(&fib_netdev_notifier);
register_inetaddr_notifier(&fib_inetaddr_notifier);

```

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