
Subject: [PATCH] Clean the ip_sockglue.c from some ugly ifdefs
Posted by [Pavel Emelianov](#) on Thu, 01 Nov 2007 15:52:34 GMT
[View Forum Message](#) <> [Reply to Message](#)

The #ifdef CONFIG_IP_MROUTE is sometimes places inside the if-s, which looks completely bad. Similar ifdefs inside the functions looks a bit better, but they are also not recommended to be used.

Provide an ifdef-ed ip_mroute_opt() helper to cleanup the code.

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

```
diff --git a/include/linux/mroute.h b/include/linux/mroute.h
index 7da2cee..200fbb2 100644
--- a/include/linux/mroute.h
+++ b/include/linux/mroute.h
@@ -128,6 +128,18 @@ struct igmpmsg
#ifdef __KERNEL__
#include <net/sock.h>

+#ifdef CONFIG_IP_MROUTE
+static inline int ip_mroute_opt(int opt)
+{
+ return (opt >= MRT_BASE) && (op <= MRT_BASE + 10);
+}
+#else
+static inline int ip_mroute_opt(int opt)
+{
+ return 0;
+}
+#endif
+
extern int ip_mroute_setsockopt(struct sock *, int, char __user *, int);
extern int ip_mroute_getsockopt(struct sock *, int, char __user *, int __user *);
extern int ipmr_ioctl(struct sock *sk, int cmd, void __user *arg);
diff --git a/net/ipv4/ip_sockglue.c b/net/ipv4/ip_sockglue.c
index f51f20e..82817e5 100644
--- a/net/ipv4/ip_sockglue.c
+++ b/net/ipv4/ip_sockglue.c
@@ -437,10 +437,8 @@ static int do_ip_setsockopt(struct sock *sk, int level,

/* If optlen==0, it is equivalent to val == 0 */

-#ifdef CONFIG_IP_MROUTE
- if (optname >= MRT_BASE && optname <= (MRT_BASE + 10))
+ if (ip_mroute_opt(optname))
```

```

    return ip_mroute_setsockopt(sk,optname,optval,optlen);
-#endif

    err = 0;
    lock_sock(sk);
@@ -909,11 +907,9 @@ int ip_setsockopt(struct sock *sk, int level,
#ifdef CONFIG_NETFILTER
    /* we need to exclude all possible ENOPROTOOPTs except default case */
    if (err == -ENOPROTOOPT && optname != IP_HDRINCL &&
-   optname != IP_IPSEC_POLICY && optname != IP_XFRM_POLICY
-#ifdef CONFIG_IP_MROUTE
-   && (optname < MRT_BASE || optname > (MRT_BASE + 10))
-#endif
-   ) {
+   optname != IP_IPSEC_POLICY &&
+   optname != IP_XFRM_POLICY &&
+   !ip_mroute_opt(optname)) {
        lock_sock(sk);
        err = nf_setsockopt(sk, PF_INET, optname, optval, optlen);
        release_sock(sk);
@@ -935,11 +931,9 @@ int compat_ip_setsockopt(struct sock *sk, int level, int optname,
#ifdef CONFIG_NETFILTER
    /* we need to exclude all possible ENOPROTOOPTs except default case */
    if (err == -ENOPROTOOPT && optname != IP_HDRINCL &&
-   optname != IP_IPSEC_POLICY && optname != IP_XFRM_POLICY
-#ifdef CONFIG_IP_MROUTE
-   && (optname < MRT_BASE || optname > (MRT_BASE + 10))
-#endif
-   ) {
+   optname != IP_IPSEC_POLICY &&
+   optname != IP_XFRM_POLICY &&
+   !ip_mroute_opt(optname)) {
        lock_sock(sk);
        err = compat_nf_setsockopt(sk, PF_INET, optname,
            optval, optlen);
@@ -967,11 +961,8 @@ static int do_ip_getsockopt(struct sock *sk, int level, int optname,
    if (level != SOL_IP)
        return -EOPNOTSUPP;

-#ifdef CONFIG_IP_MROUTE
-   if (optname >= MRT_BASE && optname <= MRT_BASE+10) {
+   if (ip_mroute_opt(optname))
        return ip_mroute_getsockopt(sk,optname,optval,optlen);
-   }
-#endif

    if (get_user(len,optlen))
        return -EFAULT;

```

```

@@ -1171,11 +1162,8 @@ int ip_getsockopt(struct sock *sk, int level,
    err = do_ip_getsockopt(sk, level, optname, optval, optlen);
#ifdef CONFIG_NETFILTER
    /* we need to exclude all possible ENOPROTOOPTs except default case */
- if (err == -ENOPROTOOPT && optname != IP_PKTOPTIONS
-#ifdef CONFIG_IP_MROUTE
- && (optname < MRT_BASE || optname > MRT_BASE+10)
-#endif
- ) {
+ if (err == -ENOPROTOOPT && optname != IP_PKTOPTIONS &&
+ !ip_mroute_opt(optname)) {
    int len;

    if (get_user(len,optlen))
@@ -1200,11 +1188,8 @@ int compat_ip_getsockopt(struct sock *sk, int level, int optname,
    int err = do_ip_getsockopt(sk, level, optname, optval, optlen);
#ifdef CONFIG_NETFILTER
    /* we need to exclude all possible ENOPROTOOPTs except default case */
- if (err == -ENOPROTOOPT && optname != IP_PKTOPTIONS
-#ifdef CONFIG_IP_MROUTE
- && (optname < MRT_BASE || optname > MRT_BASE+10)
-#endif
- ) {
+ if (err == -ENOPROTOOPT && optname != IP_PKTOPTIONS &&
+ !ip_mroute_opt(optname)) {
    int len;

    if (get_user(len, optlen))

```

--

1.5.3.4