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Subject: [PATCH 3/4] Cleanup the xfrm4\_tunnel\_(un)register  
Posted by [Pavel Emelianov](#) on Fri, 09 Nov 2007 13:16:23 GMT  
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Both check for the family to select an appropriate tunnel list.  
Consolidate this check and make the for() loop more readable.

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

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diff --git a/net/ipv4/tunnel4.c b/net/ipv4/tunnel4.c
index 7938430..b662a9e 100644
--- a/net/ipv4/tunnel4.c
+++ b/net/ipv4/tunnel4.c
@@ -18,6 +18,11 @@ static struct xfrm_tunnel *tunnel4_handlers;
 static struct xfrm_tunnel *tunnel64_handlers;
 static DEFINE_MUTEX(tunnel4_mutex);

+static inline struct xfrm_tunnel **fam_handlers(unsigned short family)
+{
+ return (family == AF_INET) ? &tunnel4_handlers : &tunnel64_handlers;
+}
+
int xfrm4_tunnel_register(struct xfrm_tunnel *handler, unsigned short family)
{
    struct xfrm_tunnel **pprev;
@@ -26,8 +31,7 @@ int xfrm4_tunnel_register(struct xfrm_tunnel *handler, unsigned short
family)

    mutex_lock(&tunnel4_mutex);

- for (pprev = (family == AF_INET) ? &tunnel4_handlers : &tunnel64_handlers;
-      *pprev; pprev = &(*pprev)->next) {
+ for (pprev = fam_handlers(family); *pprev; pprev = &(*pprev)->next) {
     if ((*pprev)->priority > priority)
         break;
     if ((*pprev)->priority == priority)
@@ -54,8 +58,7 @@ int xfrm4_tunnel_deregister(struct xfrm_tunnel *handler, unsigned short
family)

    mutex_lock(&tunnel4_mutex);

- for (pprev = (family == AF_INET) ? &tunnel4_handlers : &tunnel64_handlers;
-      *pprev; pprev = &(*pprev)->next) {
+ for (pprev = fam_handlers(family); *pprev; pprev = &(*pprev)->next) {
     if (*pprev == handler) {
         *pprev = handler->next;
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ret = 0;
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1.5.3.4
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