Subject: [PATCH] [NETFILTER] ipt_SAME: add compat conversion functions
Posted by khorenko on Tue, 13 Nov 2007 12:40:16 GMT
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[NETFILTER]: ipt_SAME: add compat conversion functions

ipt_SAME should have the compat function cause its entry structure (ipt_same_info)
contains a pointer between data filled/checked in both kernel and userspace.

Signed-off-by: Konstantin Khorenko <khorenko@sw.ru>

Thank you,
 Konstantin Khorenko

SWsoft Virtuozzo/OpenVZ Linux kernel team

```
--- ./net/ipv4/netfilter/ipt_SAME.c.SAME 2007-11-06 13:55:16.000000000 +0300
+++ ./net/ipv4/netfilter/ipt_SAME.c 2007-11-09 16:50:38.000000000 +0300
@@ -152,6 +152,47 @@ same_target(struct sk_buff *skb,
  return nf_nat_setup_info(ct, &newrange, hooknum);
 }

+#ifdef CONFIG_COMPAT
+struct compat_ipt_same_info
+{
+ unsigned char info;
+ u_int32_t rangesize;
+ u_int32_t ipnum;
+ compat_uptr_t iparray;
+
+ /* hangs off end. */
+ struct nf_nat_range range[IPT_SAME_MAX_RANGE];
+};
+
+static void compat_from_user(void *dst, void *src)
+{
+ const struct compat_ipt_same_info *cl = src;
+ struct ipt_same_info l = {
+  .info  = cl->info,
+  .rangesize = cl->rangesize,
+  .ipnum  = 0,
+  .iparray = NULL,
+ };
+
+ memcpy(l.range, cl->range, sizeof(l.range));
+ memcpy(dst, &l, sizeof(l));
```

```
+}
+
+static int compat_to_user(void __user *dst, void *src)
+{
+ const struct ipt_same_info *l = src;
+ struct compat_ipt_same_info cl = {
+  .info  = l->info,
+  .rangesize = l->rangesize,
+  .ipnum  = 0,
+  .iparray = (compat_uptr_t)NULL,
+ };
+
+ memcpy(cl.range, l->range, sizeof(cl.range));
+ return copy_to_user(dst, &cl, sizeof(cl)) ? -EFAULT : 0;
+}
+#endif /* CONFIG_COMPAT */
+
 static struct xt_target same_reg __read_mostly = {
  .name  = "SAME",
  .family  = AF_INET,
@@ -161,6 +202,11 @@ static struct xt_target same_reg __read_
  .hooks  = (1 << NF_IP_PRE_ROUTING | 1 << NF_IP_POST_ROUTING),
  .checkentry = same_check,
  .destroy = same_destroy,
+#ifdef CONFIG_COMPAT
+ .compatsize = sizeof(struct compat_ipt_same_info),
+ .compat_from_user = compat_from_user,
+ .compat_to_user = compat_to_user,
+#endif
  .me  = THIS_MODULE,
 };
```