Subject: [PATCH] nf_sockopts list head cleanup
Posted by Alexey Dobriyan on Mon, 22 Oct 2007 12:19:05 GMT
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Code is using knowledge that nf_sockopt_ops::list list_head is first
field in structure by using casts. Switch to list_for_each_entry()
itetators while I am at it.

Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>
---

 net/netfilter/nf_sockopt.c | 12 ++++++--------
 1 file changed, 4 insertions(+), 8 deletions(-)

--- a/net/netfilter/nf_sockopt.c
+++ b/net/netfilter/nf_sockopt.c
@@ -23,14 +23,13 @@ static inline int overlap(int min1, int max1, int min2, int max2)
 /* Functions to register sockopt ranges (exclusive). */
 int nf_register_sockopt(struct nf_sockopt_ops *reg)
 {
- struct list_head *i;
+ struct nf_sockopt_ops *ops;
  int ret = 0;

  if (mutex_lock_interruptible(&nf_sockopt_mutex) != 0)
   return -EINTR;

- list_for_each(i, &nf_sockopts) {
- struct nf_sockopt_ops *ops = (struct nf_sockopt_ops *)i;
+ list_for_each_entry(ops, &nf_sockopts, list) {
   if (ops->pf == reg->pf
       && (overlap(ops->set_optmin, ops->set_optmax,
     reg->set_optmin, reg->set_optmax)
@@ -65,7 +64,6 @@ EXPORT_SYMBOL(nf_unregister_sockopt);
 static int nf_sockopt(struct sock *sk, int pf, int val,
         char __user *opt, int *len, int get)
 {
- struct list_head *i;
  struct nf_sockopt_ops *ops;
  int ret;

@@ -75,8 +73,7 @@ static int nf_sockopt(struct sock *sk, int pf, int val,
  if (mutex_lock_interruptible(&nf_sockopt_mutex) != 0)
   return -EINTR;

- list_for_each(i, &nf_sockopts) {
- ops = (struct nf_sockopt_ops *)i;
+ list_for_each_entry(ops, &nf_sockopts, list) {

```
   if (ops->pf == pf) {
    if (!try_module_get(ops->owner))
     goto out_nosup;
@@ -135,8 +132,7 @@ static int compat_nf_sockopt(struct sock *sk, int pf, int val,
  if (mutex_lock_interruptible(&nf_sockopt_mutex) != 0)
   return -EINTR;

- list_for_each(i, &nf_sockopts) {
-  ops = (struct nf_sockopt_ops *)i;
+ list_for_each_entry(ops, &nf_sockopts, list) {
   if (ops->pf == pf) {
    if (!try_module_get(ops->owner))
     goto out_nosup;
```

Subject: Re: [PATCH] nf_sockopts list head cleanup
Posted by Patrick McHardy on Tue, 23 Oct 2007 12:39:12 GMT
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Alexey Dobriyan wrote:
> Code is using knowledge that nf_sockopt_ops::list list_head is first
> field in structure by using casts. Switch to list_for_each_entry()
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>
>

Applied with a minor warning fix in the compat path, thanks Alexey.
