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Subject: [PATCH net-2.6.25 12/19] [NETNS] Show routing information from correct namespace (fib\_trie.c)

Posted by [den](#) on Wed, 19 Dec 2007 15:24:42 GMT

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This is the second part (for the CONFIG\_IP\_FIB\_TRIE case) of the patch #4, where we have created proc files in namespaces.

Now we can dump correct info in them.

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```
---
net/ipv4/fib_trie.c | 44 +++++++++++++++++++++++++++++++++++++-----
1 files changed, 32 insertions(+), 12 deletions(-)

diff --git a/net/ipv4/fib_trie.c b/net/ipv4/fib_trie.c
index 9526758..708faa9 100644
--- a/net/ipv4/fib_trie.c
+++ b/net/ipv4/fib_trie.c
@@ -1992,6 +1992,7 @@ struct fib_table *fib_hash_init(u32 id)
#ifdef CONFIG_PROC_FS
/* Depth first Trie walk iterator */
struct fib_trie_iter {
+ struct seq_net_private p;
  struct trie *trie_local, *trie_main;
  struct tnode *tnode;
  struct trie *trie;
@@ -2159,17 +2160,18 @@ static void trie_show_stats(struct seq_file *seq, struct trie_stat *stat)

static int fib_triestat_seq_show(struct seq_file *seq, void *v)
{
+ struct net *net = (struct net *)seq->private;
  struct trie *trie_local, *trie_main;
  struct trie_stat *stat;
  struct fib_table *tb;

  trie_local = NULL;
- tb = fib_get_table(&init_net, RT_TABLE_LOCAL);
+ tb = fib_get_table(net, RT_TABLE_LOCAL);
  if (tb)
    trie_local = (struct trie *) tb->tb_data;

  trie_main = NULL;
- tb = fib_get_table(&init_net, RT_TABLE_MAIN);
+ tb = fib_get_table(net, RT_TABLE_MAIN);
  if (tb)
    trie_main = (struct trie *) tb->tb_data;
```

@@ -2199,7 +2201,25 @@ static int fib\_triestat\_seq\_show(struct seq\_file \*seq, void \*v)

```
static int fib_triestat_seq_open(struct inode *inode, struct file *file)
```

```
{  
- return single_open(file, fib_triestat_seq_show, NULL);
```

```
+ int err;
```

```
+ struct net *net;
```

```
+
```

```
+ net = get_proc_net(inode);
```

```
+ if (net == NULL)
```

```
+ return -ENXIO;
```

```
+ err = single_open(file, fib_triestat_seq_show, net);
```

```
+ if (err < 0) {
```

```
+ put_net(net);
```

```
+ return err;
```

```
+ }
```

```
+ return 0;
```

```
+}
```

```
+
```

```
+static int fib_triestat_seq_release(struct inode *ino, struct file *f)
```

```
+{
```

```
+ struct seq_file *seq = f->private_data;
```

```
+ put_net(seq->private);
```

```
+ return single_release(ino, f);
```

```
}
```

```
static const struct file_operations fib_triestat_fops = {
```

@@ -2207,7 +2227,7 @@ static const struct file\_operations fib\_triestat\_fops = {

```
.open = fib_triestat_seq_open,
```

```
.read = seq_read,
```

```
.llseek = seq_lseek,
```

```
- .release = single_release,
```

```
+ .release = fib_triestat_seq_release,
```

```
};
```

```
static struct node *fib_trie_get_idx(struct fib_trie_iter *iter,
```

@@ -2236,12 +2256,12 @@ static void \*fib\_trie\_seq\_start(struct seq\_file \*seq, loff\_t \*pos)

```
struct fib_table *tb;
```

```
if (!iter->trie_local) {
```

```
- tb = fib_get_table(&init_net, RT_TABLE_LOCAL);
```

```
+ tb = fib_get_table(iter->p.net, RT_TABLE_LOCAL);
```

```
if (tb)
```

```
iter->trie_local = (struct trie *) tb->tb_data;
```

```
}
```

```
if (!iter->trie_main) {
```

```
- tb = fib_get_table(&init_net, RT_TABLE_MAIN);
```

```

+ tb = fib_get_table(iter->p.net, RT_TABLE_MAIN);
  if (tb)
    iter->trie_main = (struct trie *) tb->tb_data;
}
@@ -2385,8 +2405,8 @@ static const struct seq_operations fib_trie_seq_ops = {

static int fib_trie_seq_open(struct inode *inode, struct file *file)
{
- return seq_open_private(file, &fib_trie_seq_ops,
- sizeof(struct fib_trie_iter));
+ return seq_open_net(inode, file, &fib_trie_seq_ops,
+ sizeof(struct fib_trie_iter));
}

static const struct file_operations fib_trie_fops = {
@@ -2394,7 +2414,7 @@ static const struct file_operations fib_trie_fops = {
  .open  = fib_trie_seq_open,
  .read  = seq_read,
  .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = seq_release_net,
};

static unsigned fib_flag_trans(int type, __be32 mask, const struct fib_info *fi)
@@ -2489,8 +2509,8 @@ static const struct seq_operations fib_route_seq_ops = {

static int fib_route_seq_open(struct inode *inode, struct file *file)
{
- return seq_open_private(file, &fib_route_seq_ops,
- sizeof(struct fib_trie_iter));
+ return seq_open_net(inode, file, &fib_route_seq_ops,
+ sizeof(struct fib_trie_iter));
}

static const struct file_operations fib_route_fops = {
@@ -2498,7 +2518,7 @@ static const struct file_operations fib_route_fops = {
  .open  = fib_route_seq_open,
  .read  = seq_read,
  .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = seq_release_net,
};

int __net_init fib_proc_init(struct net *net)
--
1.5.3.rc5

```

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