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Subject: [patch 03/38][IPV6] inet6\_addr - isolate inet6 addresses from proc file  
Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:39 GMT

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Make /proc/net/if\_inet6 show only inet6 addresses belonging to the namespace.

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Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

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net/ipv6/addrconf.c | 48 ++++++-----  
1 file changed, 39 insertions(+), 9 deletions(-)

Index: linux-2.6-netns/net/ipv6/addrconf.c

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--- linux-2.6-netns.orig/net/ipv6/addrconf.c

+++ linux-2.6-netns/net/ipv6/addrconf.c

@@ -2699,6 +2699,7 @@ static void addrconf\_dad\_run(struct inet

#ifdef CONFIG\_PROC\_FS

struct if6\_iter\_state {

+ struct seq\_net\_private p;

int bucket;

};

@@ -2706,11 +2707,16 @@ static struct inet6\_ifaddr \*if6\_get\_firs

{

struct inet6\_ifaddr \*ifa = NULL;

struct if6\_iter\_state \*state = seq->private;

+ struct net \*net = state->p.net;

for (state->bucket = 0; state->bucket < IN6\_ADDR\_HSIZE; ++state->bucket) {

ifa = inet6\_addr\_lst[state->bucket];

- if (ifa)

- break;

+

+ while (ifa && ifa->idev->dev->nd\_net != net)

+ ifa = ifa->lst\_next;

+ if (!ifa)

+ continue;

+ break;

}

return ifa;

}

@@ -2718,13 +2724,22 @@ static struct inet6\_ifaddr \*if6\_get\_firs

static struct inet6\_ifaddr \*if6\_get\_next(struct seq\_file \*seq, struct inet6\_ifaddr \*ifa)

{

struct if6\_iter\_state \*state = seq->private;

```

+ struct net *net = state->p.net;

    ifa = ifa->lst_next;
try_again:
+ if (ifa) {
+ if (ifa->idev->dev->nd_net != net) {
+ ifa = ifa->lst_next;
+ goto try_again;
+ }
+ }
+
    if (!ifa && ++state->bucket < IN6_ADDR_HSIZE) {
        ifa = inet6_addr_lst[state->bucket];
        goto try_again;
    }
+
    return ifa;
}

@@ -2781,8 +2796,8 @@ static const struct seq_operations if6_s

static int if6_seq_open(struct inode *inode, struct file *file)
{
- return seq_open_private(file, &if6_seq_ops,
- sizeof(struct if6_iter_state));
+ return seq_open_net(inode, file, &if6_seq_ops,
+ sizeof(struct if6_iter_state));
}

static const struct file_operations if6_fops = {
@@ -2790,19 +2805,34 @@ static const struct file_operations if6_
    .open = if6_seq_open,
    .read = seq_read,
    .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = seq_release_net,
+};
+
+static int if6_proc_net_init(struct net *net)
+{
+ if (!proc_net_fops_create(net, "if_inet6", S_IRUGO, &if6_fops))
+     return -ENOMEM;
+     return 0;
+}
+
+static void if6_proc_net_exit(struct net *net)
+{
+     proc_net_remove(net, "if_inet6");

```

```

+}
+
+static struct pernet_operations if6_proc_net_ops = {
+    .init = if6_proc_net_init,
+    .exit = if6_proc_net_exit,
+};

int __init if6_proc_init(void)
{
- if (!proc_net_fops_create(&init_net, "if_inet6", S_IRUGO, &if6_fops))
- return -ENOMEM;
- return 0;
+ return register_pernet_subsys(&if6_proc_net_ops);
}

void if6_proc_exit(void)
{
- proc_net_remove(&init_net, "if_inet6");
+ unregister_pernet_subsys(&if6_proc_net_ops);
}
#endif /* CONFIG_PROC_FS */

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