
Subject: [patch 05/10][NETNS][IP6_FIB] make fib6_clean_all per namespace

Posted by [Daniel Lezcano](#) on Thu, 15 Nov 2007 14:01:48 GMT

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The function fib6_clean_all takes the network namespace as parameter. This is useful for example to flush the routes related to a specific network namespace.

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```
include/net/ip6_fib.h | 3 +-
net/ipv6/ip6_fib.c    | 7 ++++---
net/ipv6/route.c      | 10 ++++++-----
3 files changed, 12 insertions(+), 8 deletions(-)
```

Index: linux-2.6-netns/include/net/ip6_fib.h

=====

--- linux-2.6-netns.orig/include/net/ip6_fib.h

+++ linux-2.6-netns/include/net/ip6_fib.h

```
@@ -207,7 +207,8 @@ struct fib6_node *fib6_locate(struct fi
     struct in6_addr *daddr, int dst_len,
     struct in6_addr *saddr, int src_len);
```

```
-extern void fib6_clean_all(int (*func)(struct rt6_info *, void *arg),
+extern void fib6_clean_all(struct net *net,
+    int (*func)(struct rt6_info *, void *arg),
+    int prune, void *arg);
```

```
extern int fib6_add(struct fib6_node *root,
```

Index: linux-2.6-netns/net/ipv6/ip6_fib.c

=====

--- linux-2.6-netns.orig/net/ipv6/ip6_fib.c

+++ linux-2.6-netns/net/ipv6/ip6_fib.c

```
@@ -1349,7 +1349,7 @@ static void fib6_clean_tree(struct fib6_
     fib6_walk(&c.w);
 }
```

```
-void fib6_clean_all(int (*func)(struct rt6_info *, void *arg),
+void fib6_clean_all(struct net *net, int (*func)(struct rt6_info *, void *arg),
+    int prune, void *arg)
```

```
{
    struct fib6_table *table;
@@ -1359,7 +1359,7 @@ void fib6_clean_all(int (*func)(struct r
```

```
    rcu_read_lock();
    for (h = 0; h < FIB_TABLE_HASHSZ; h++) {
-    head = &init_net.fib_table_hash[h];
```

```
+ head = &net->fib_table_hash[h];
  hlist_for_each_entry_rcu(table, node, head, tb6_hlist) {
    write_lock_bh(&table->tb6_lock);
    fib6_clean_tree(&table->tb6_root, func, prune, arg);
@@ -1448,7 +1448,8 @@ void fib6_run_gc(unsigned long dummy)
  gc_args.more = 0;
```

```
  ndisc_dst_gc(&gc_args.more);
- fib6_clean_all(fib6_age, 0, NULL);
```

```
+
+ fib6_clean_all(&init_net, fib6_age, 0, NULL);
```

```
  if (gc_args.more)
    mod_timer(&ip6_fib_timer, jiffies + ip6_rt_gc_interval);
```

```
Index: linux-2.6-netns/net/ipv6/route.c
```

```
=====
```

```
--- linux-2.6-netns.orig/net/ipv6/route.c
```

```
+++ linux-2.6-netns/net/ipv6/route.c
```

```
@@ -1860,7 +1860,7 @@ static int fib6_ifdown(struct rt6_info *
```

```
void rt6_ifdown(struct net_device *dev)
{
- fib6_clean_all(fib6_ifdown, 0, dev);
+ fib6_clean_all(dev->nd_net, fib6_ifdown, 0, dev);
}
```

```
struct rt6_mtu_change_arg
@@ -1916,7 +1916,7 @@ void rt6_mtu_change(struct net_device *d
  .mtu = mtu,
};
```

```
- fib6_clean_all(rt6_mtu_change_route, 0, &arg);
+ fib6_clean_all(dev->nd_net, rt6_mtu_change_route, 0, &arg);
}
```

```
static const struct nla_policy rtm_ipv6_policy[RTA_MAX+1] = {
@@ -2307,13 +2307,15 @@ static int rt6_info_route(struct rt6_inf
```

```
static int ipv6_route_show(struct seq_file *m, void *v)
{
- fib6_clean_all(rt6_info_route, 0, m);
+ struct net *net = (struct net *)v;
+ fib6_clean_all(net, rt6_info_route, 0, m);
  return 0;
}
```

```
static int ipv6_route_open(struct inode *inode, struct file *file)
{
```

```
- return single_open(file, ipv6_route_show, NULL);  
+ struct net *net = get_proc_net(inode);  
+ return single_open(file, ipv6_route_show, net);  
}
```

```
static const struct file_operations ipv6_route_proc_fops = {
```

```
--
```

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