Subject: [patch 10/10][NETNS][IP6_FIB] make gc timer handle several network namespace
Posted by Daniel Lezcano on Thu, 15 Nov 2007 14:01:53 GMT
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Move the timer initialization at the network namespace creation
and store the namespace in the timer argument.

That enables multiple timer per network namespace to do garbage
collecting.

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 net/ipv6/ip6_fib.c | 33 ++++++++++++++++++++----------
 1 file changed, 17 insertions(+), 16 deletions(-)

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
@@ -1466,12 +1466,23 @@ static void fib6_gc_timer_cb(unsigned lo
 static int fib6_net_init(struct net *net)
 {
  int ret;
+ struct timer_list *timer;

  ret = -ENOMEM;
+ timer = kzalloc(sizeof(*timer), GFP_KERNEL);
+ if (!timer)
+ goto out;
+
+ timer->function = fib6_gc_timer_cb;
+ timer->expires = 0;
+ timer->data = (unsigned long)net;
+ timer->base = &boot_tvec_bases;
+ net->ip6_fib_timer = timer;
+
  net->fib_table_hash = kzalloc(sizeof(*net->fib_table_hash)*FIB_TABLE_HASHSZ,
         GFP_KERNEL);
  if (!net->fib_table_hash)
- goto out;
+ goto out_timer;

  net->fib6_main_tbl = kzalloc(sizeof(*net->fib6_main_tbl), GFP_KERNEL);
  if (!net->fib6_main_tbl)
@@ -1498,12 +1509,17 @@ static int fib6_net_init(struct net *net

```
 out_fib6_main_tbl:
  kfree(net->fib_table_hash);
+out_timer:
+ kfree(timer);
 out:
  return ret;
  }

 static void fib6_net_exit(struct net *net)
 {
+ del_timer(net->ip6_fib_timer);
+ kfree(net->ip6_fib_timer);
+
 #ifdef CONFIG_IPV6_MULTIPLE_TABLES
  kfree(net->fib6_local_tbl);
 #endif
@@ -1518,31 +1534,16 @@ static struct pernet_operations fib6_net

 void __init fib6_init(void)
 {
-  struct timer_list *timer;
-
  fib6_node_kmem = kmem_cache_create("fib6_nodes",
        sizeof(struct fib6_node),
        0, SLAB_HWCACHE_ALIGN|SLAB_PANIC,
        NULL);
-
- timer = kzalloc(sizeof(*timer), GFP_KERNEL);
- if (!timer)
-  panic("IPV6: failed to allocate the gc timer\n");
-
- timer->function = fib6_gc_timer_cb;
- timer->expires = 0;
- timer->data = (unsigned long)&init_net;
- timer->base = &boot_tvec_bases;
- init_net.ip6_fib_timer = timer;
-
  register_pernet_subsys(&fib6_net_ops);
        __rtnl_register(PF_INET6, RTM_GETROUTE, NULL, inet6_dump_fib);
 }

 void fib6_gc_cleanup(void)
 {
- del_timer(timer);
- kfree(timer);
  unregister_pernet_subsys(&fib6_net_ops);
  kmem_cache_destroy(fib6_node_kmem);
 }
```

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