Subject: [patch 22/38][IPV6] rt6_stats - dynamically allocate the rt6_stats
Posted by Daniel Lezcano on Mon, 03 Dec 2007 16:16:58 GMT
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This patch allocates the rt6_stats struct dynamically when
the fib6 is initialized. That provides the ability to create
several instances of this structure for the network namespaces.

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---
 net/ipv6/ip6_fib.c | 8 ++++++--
 1 file changed, 6 insertions(+), 2 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
@@ -48,8 +48,7 @@
 #define RT6_TRACE(x...) do { ; } while (0)
 #endif

-static struct rt6_statistics __rt6_stats;
-struct rt6_statistics *rt6_stats = &__rt6_stats;
+struct rt6_statistics *rt6_stats;

 static struct kmem_cache * fib6_node_kmem __read_mostly;

@@ -1544,6 +1543,10 @@ void __init fib6_init(void)
         sizeof(struct fib6_node),
         0, SLAB_HWCACHE_ALIGN|SLAB_PANIC,
         NULL);
+
+   rt6_stats = kzalloc(sizeof(*rt6_stats), GFP_KERNEL);
+   if (!rt6_stats)
+   panic("IPV6: failed to allocate rt6_stats.\n");

  register_pernet_subsys(&fib6_net_ops);
         __rtnl_register(PF_INET6, RTM_GETROUTE, NULL, inet6_dump_fib);
@@ -1552,5 +1555,6 @@ void __init fib6_init(void)
 void fib6_gc_cleanup(void)
 {
  unregister_pernet_subsys(&fib6_net_ops);
+ kfree(rt6_stats);
  kmem_cache_destroy(fib6_node_kmem);
 }

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