
Subject: [patch 19/38][IPV6] ip6_fib - make the ip6 fib gc timer handle several network namespaces

Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:55 GMT

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Move the timer initialization at the network namespace creation and store the network namespace in the timer argument.

That enables multiple timers (one per network namespace) to do garbage collecting.

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net/ipv6/ip6_fib.c | 32 ++++++-----

1 file changed, 17 insertions(+), 15 deletions(-)

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

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

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

@@ -1471,12 +1471,23 @@ 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)

@@ -1503,12 +1514,17 @@ 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
@@ -1523,31 +1539,17 @@ 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(init_net.ip6_fib_timer);
- kfree(init_net.ip6_fib_timer);
    unregister_pernet_subsys(&fib6_net_ops);
    kmem_cache_destroy(fib6_node_kmem);
}

```

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