
Subject: [patch 08/10][NETNS][IP6_FIB] dynamically allocate the gc timer

Posted by [Daniel Lezcano](#) on Thu, 15 Nov 2007 14:01:51 GMT

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The gc timer is dynamically allocated and initialized in the ip6 fib init function. There are no more references to a static global variable.

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net/ipv6/ip6_fib.c | 15 ++++++++-----

1 file changed, 11 insertions(+), 4 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

@@ -93,10 +93,7 @@ static int fib6_walk_continue(struct fib

static __u32 rt_sernum;

-static void fib6_gc_timer_cb(unsigned long arg);

-
-static DEFINE_TIMER(__ip6_fib_timer, fib6_gc_timer_cb, 0, (unsigned long)&init_net);
-static struct timer_list *ip6_fib_timer = &__ip6_fib_timer;
+static struct timer_list *ip6_fib_timer;

static struct fib6_walker_t fib6_walker_list = {
 .prev = &fib6_walker_list,

@@ -1528,6 +1525,15 @@ void __init fib6_init(void)
 0, SLAB_HWCACHE_ALIGN|SLAB_PANIC,
 NULL);

+ ip6_fib_timer = kzalloc(sizeof(*ip6_fib_timer), GFP_KERNEL);

+ if (!ip6_fib_timer)

+ panic("IPV6: failed to allocate the gc timer\n");

+

+ ip6_fib_timer->function = fib6_gc_timer_cb;

+ ip6_fib_timer->expires = 0;

+ ip6_fib_timer->data = (unsigned long)&init_net;

+ ip6_fib_timer->base = &boot_tvec_bases;

+

register_pernet_subsys(&fib6_net_ops);

__rtnl_register(PF_INET6, RTM_GETROUTE, NULL, inet6_dump_fib);

}

@@ -1535,6 +1541,7 @@ void __init fib6_init(void)

void fib6_gc_cleanup(void)

```
{
    del_timer(ip6_fib_timer);
+ kfree(ip6_fib_timer);
    unregister_pernet_subsys(&fib6_net_ops);
    kmem_cache_destroy(fib6_node_kmem);
}
```

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