
Subject: [patch 07/10][NETNS][IP6_FIB] make gc timer mindless changes

Posted by [Daniel Lezcano](#) on Thu, 15 Nov 2007 14:01:50 GMT

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The patch prepares to dynamically allocate the timer device.
It changes all reference to the global static variable to a
globally defined pointer to the global static variable.

That makes all the code to manage a pointer instead of a static
variable.

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net/ipv6/ip6_fib.c | 21 ++++++++-----
1 file changed, 11 insertions(+), 10 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

@@ -95,7 +95,8 @@ 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 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 fib6_walker_t fib6_walker_list = {

.prev = &fib6_walker_list,

@@ -666,15 +667,15 @@ static int fib6_add_rt2node(struct fib6_

static __inline__ void fib6_start_gc(struct rt6_info *rt)

{

- if (ip6_fib_timer.expires == 0 &&

+ if (ip6_fib_timer->expires == 0 &&

(rt->rt6i_flags & (RTF_EXPIRES|RTF_CACHE)))

- mod_timer(&ip6_fib_timer, jiffies + ip6_rt_gc_interval);

+ mod_timer(ip6_fib_timer, jiffies + ip6_rt_gc_interval);

}

void fib6_force_start_gc(void)

{

- if (ip6_fib_timer.expires == 0)

- mod_timer(&ip6_fib_timer, jiffies + ip6_rt_gc_interval);

+ if (ip6_fib_timer->expires == 0)

+ mod_timer(ip6_fib_timer, jiffies + ip6_rt_gc_interval);

```

}

/*
@@ -1441,7 +1442,7 @@ void fib6_run_gc(unsigned long expires,
} else {
    local_bh_disable();
    if (!spin_trylock(&fib6_gc_lock)) {
-   mod_timer(&ip6_fib_timer, jiffies + HZ);
+   mod_timer(ip6_fib_timer, jiffies + HZ);
    local_bh_enable();
    return;
}
@@ -1454,10 +1455,10 @@ void fib6_run_gc(unsigned long expires,
    fib6_clean_all(net, fib6_age, 0, NULL);

    if (gc_args.more)
-   mod_timer(&ip6_fib_timer, jiffies + ip6_rt_gc_interval);
+   mod_timer(ip6_fib_timer, jiffies + ip6_rt_gc_interval);
    else {
-   del_timer(&ip6_fib_timer);
-   ip6_fib_timer.expires = 0;
+   del_timer(ip6_fib_timer);
+   ip6_fib_timer->expires = 0;
    }
    spin_unlock_bh(&fib6_gc_lock);
}
@@ -1533,7 +1534,7 @@ void __init fib6_init(void)

void fib6_gc_cleanup(void)
{
-   del_timer(&ip6_fib_timer);
+   del_timer(ip6_fib_timer);
    unregister_pernet_subsys(&fib6_net_ops);
    kmem_cache_destroy(fib6_node_kmem);
}

--

```

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