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Subject: [patch 16/38][IPV6] ip6\_fib - make ip6 fib gc timer mindless changes

Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:52 GMT

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The patch prepares to dynamically allocate the ip6\_fib\_timer timer.  
It changes all reference to the global static variable to a  
globally defined pointer to the global static variable.

That makes all the code use 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

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--- 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);

}

```

/*
@@ -1446,7 +1447,7 @@ 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;
}
@@ -1459,10 +1460,10 @@ 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);
}
@@ -1538,7 +1539,7 @@ 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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Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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