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Subject: [patch 17/38][IPV6] ip6\_fib - dynamically allocate the ip6 fib gc timer

Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:53 GMT

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The ip6\_fib\_timer 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

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--- 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,
@@ -1533,6 +1530,15 @@ 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);
}
@@ -1540,6 +1546,7 @@ 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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