
Subject: [patch 21/38][IPv6] rt6_stats - make mindless changes for rt6_stats
Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:57 GMT
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Change the global reference to the rt6_stats variable to a pointer. These are the mindless changes to bring dynamic allocation to the rt6_stats structure.

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include/net/ipv6.h | 2 +-
net/ipv6/ip6_fib.c | 13 ++++++-----
net/ipv6/route.c | 8 ++++----
3 files changed, 12 insertions(+), 11 deletions(-)

Index: linux-2.6-netns/include/net/ipv6.h

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--- linux-2.6-netns.orig/include/net/ipv6.h
+++ linux-2.6-netns/include/net/ipv6.h
@@ -620,7 +620,7 @@ extern void ipv6_misc_proc_exit(void);
extern int snmp6_register_dev(struct inet6_dev *idev);
extern int snmp6_unregister_dev(struct inet6_dev *idev);

-extern struct rt6_statistics rt6_stats;
+extern struct rt6_statistics *rt6_stats;
#else
static inline int snmp6_register_dev(struct inet6_dev *idev)
{

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
@@ -48,7 +48,8 @@
#define RT6_TRACE(x...) do { ; } while (0)
#endif

-struct rt6_statistics rt6_stats;
+static struct rt6_statistics __rt6_stats;
+struct rt6_statistics *rt6_stats = &__rt6_stats;

static struct kmem_cache * fib6_node_kmem __read_mostly;

@@ -650,10 +651,10 @@ static int fib6_add_rt2node(struct fib6_
rt->rt6i_node = fn;
atomic_inc(&rt->rt6i_ref);
inet6_rt_notify(RTM_NEWROUTE, rt, info);
- rt6_stats.fib_rt_entries++;

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+ rt6_stats->fib_rt_entries++;

    if ((fn->fn_flags & RTN_RTINFO) == 0) {
-   rt6_stats.fib_route_nodes++;
+   rt6_stats->fib_route_nodes++;
        fn->fn_flags |= RTN_RTINFO;
    }

@@ -1088,8 +1089,8 @@ static void fib6_del_route(struct fib6_n
/* Unlink it */
*rtp = rt->u.dst.rt6_next;
rt->rt6i_node = NULL;
- rt6_stats.fib_rt_entries--;
- rt6_stats.fib_discarded_routes++;
+ rt6_stats->fib_rt_entries--;
+ rt6_stats->fib_discarded_routes++;

/* Reset round-robin state, if necessary */
if (fn->rr_ptr == rt)
@@ -1115,7 +1116,7 @@ static void fib6_del_route(struct fib6_n
/* If it was last route, expunge its radix tree node */
if (fn->leaf == NULL) {
    fn->fn_flags &= ~RTN_RTINFO;
-   rt6_stats.fib_route_nodes--;
+   rt6_stats->fib_route_nodes--;
    fn = fib6_repair_tree(fn);
}

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

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=====
--- linux-2.6-netns.orig/net/ipv6/route.c
+++ linux-2.6-netns/net/ipv6/route.c
@@ -2350,11 +2350,11 @@ static const struct file_operations ipv6
static int rt6_stats_seq_show(struct seq_file *seq, void *v)
{
    seq_printf(seq, "%04x %04x %04x %04x %04x %04x %04x\n",
-   rt6_stats.fib_nodes, rt6_stats.fib_route_nodes,
-   rt6_stats.fib_rt_alloc, rt6_stats.fib_rt_entries,
-   rt6_stats.fib_rt_cache,
+   rt6_stats->fib_nodes, rt6_stats->fib_route_nodes,
+   rt6_stats->fib_rt_alloc, rt6_stats->fib_rt_entries,
+   rt6_stats->fib_rt_cache,
    atomic_read(&ipv6_dst_ops.entries),
-   rt6_stats.fib_discarded_routes);
+   rt6_stats->fib_discarded_routes);

    return 0;
}

```

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