
Subject: [PATCH net-2.6.25 1/3][ROUTE] Collect proc-related functions together
Posted by [Pavel Emelianov](#) on Wed, 05 Dec 2007 17:04:16 GMT
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The net/ipv4/route.c file declares some entries for proc to dump some routing info. The reading functions are scattered over this file - collect them together.

Besides, remove a useless IP_RT_ACCT_CPU macro.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

```
diff --git a/net/ipv4/route.c b/net/ipv4/route.c
index 134cab5..cc5b730 100644
--- a/net/ipv4/route.c
+++ b/net/ipv4/route.c
@@ -481,6 +481,45 @@ static const struct file_operations rt_cpu_seq_fops = {
    .release = seq_release,
};

#ifdef CONFIG_NET_CLS_ROUTE
+static int ip_rt_acct_read(char *buffer, char **start, off_t offset,
+    int length, int *eof, void *data)
+{
+    unsigned int i;
+
+    if ((offset & 3) || (length & 3))
+        return -EIO;
+
+    if (offset >= sizeof(struct ip_rt_acct) * 256) {
+        *eof = 1;
+        return 0;
+    }
+
+    if (offset + length >= sizeof(struct ip_rt_acct) * 256) {
+        length = sizeof(struct ip_rt_acct) * 256 - offset;
+        *eof = 1;
+    }
+
+    offset /= sizeof(u32);
+
+    if (length > 0) {
+        u32 *dst = (u32 *) buffer;
+
+        *start = buffer;
+        memset(dst, 0, length);
+    }
+}
```

```
+
+   for_each_possible_cpu(i) {
+       unsigned int j;
+       u32 *src;
+
+       src = ((u32 *) per_cpu_ptr(ip_rt_acct, i)) + offset;
+       for (j = 0; j < length/4; j++)
+           dst[j] += src[j];
+   }
+ }
+}
+return length;
+}
+#endif
#endif /* CONFIG_PROC_FS */

static __inline__ void rt_free(struct rtable *rt)
@@ -2895,48 +2934,6 @@ ctl_table ipv4_route_table[] = {

#ifdef CONFIG_NET_CLS_ROUTE
struct ip_rt_acct *ip_rt_acct __read_mostly;
-
-/* IP route accounting ptr for this logical cpu number. */
-#define IP_RT_ACCT_CPU(cpu) (per_cpu_ptr(ip_rt_acct, cpu))
-
-#ifndef CONFIG_PROC_FS
-static int ip_rt_acct_read(char *buffer, char **start, off_t offset,
-    int length, int *eof, void *data)
-{
-    unsigned int i;
-
-    if ((offset & 3) || (length & 3))
-        return -EIO;
-
-    if (offset >= sizeof(struct ip_rt_acct) * 256) {
-        *eof = 1;
-        return 0;
-    }
-
-    if (offset + length >= sizeof(struct ip_rt_acct) * 256) {
-        length = sizeof(struct ip_rt_acct) * 256 - offset;
-        *eof = 1;
-    }
-
-    offset /= sizeof(u32);
-
-    if (length > 0) {
-        u32 *dst = (u32 *) buffer;
```

```

- *start = buffer;
- memset(dst, 0, length);
-
- for_each_possible_cpu(i) {
-     unsigned int j;
-     u32 *src = ((u32 *) IP_RT_ACCT_CPU(i)) + offset;
-
-     for (j = 0; j < length/4; j++)
-         dst[j] += src[j];
- }
- }
- return length;
- }
-#endif /* CONFIG_PROC_FS */
#endif /* CONFIG_NET_CLS_ROUTE */

```

```

static __initdata unsigned long rhash_entries;
--

```

1.5.3.4
