
Subject: [PATCH 1/2 (resend)] Clean up the kill_someting_info
Posted by [Pavel Emelianov](#) on Mon, 04 Feb 2008 13:02:02 GMT
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This is the first step (of two) in removing the kill_pgrp_info.

All the users of this function are in kernel/signal.c, but all they need is to call __kill_pgrp_info() with the tasklist_lock read-locked.

Fortunately, one of its users is the kill_something_info(), which already needs this lock in one of its branches, so clean these branches up and call the __kill_pgrp_info() directly.

Based on Oleg's view of how this function should look.

Changes from v1:

- * Fixed double rcu_read_lock() in the if (pid > 0) branch.
This caused udev die from segfault on FC3, as noticed by Andrew.

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kernel/signal.c | 26 ++++++-----
1 files changed, 15 insertions(+), 11 deletions(-)

```
diff --git a/kernel/signal.c b/kernel/signal.c
index cc45a6b..a805c74 100644
--- a/kernel/signal.c
+++ b/kernel/signal.c
@@ -1134,14 +1134,22 @@ EXPORT_SYMBOL_GPL(kill_pid_info_as_uid);
 static int kill_something_info(int sig, struct siginfo *info, int pid)
 {
     int ret;
-    rCU_read_lock();
-    if (!pid) {
-        ret = kill_pgrp_info(sig, info, task_pgrp(current));
-    } else if (pid == -1) {
-        +
-        + if (pid > 0) {
-            rCU_read_lock();
-            ret = kill_pid_info(sig, info, find_vpid(pid));
-            rCU_read_unlock();
-        }
-        +
-        + read_lock(&tasklist_lock);
```

```

+ if (pid != -1) {
+   ret = __kill_pgrp_info(sig, info,
+     pid ? find_vpid(-pid) : task_pgrp(current));
+ } else {
+   int retval = 0, count = 0;
+   struct task_struct * p;

- read_lock(&tasklist_lock);
for_each_process(p) {
  if (p->pid > 1 && !same_thread_group(p, current)) {
    int err = group_send_sig_info(sig, info, p);
@@ @ -1150,14 +1158,10 @@ static int kill_something_info(int sig, struct siginfo *info, int pid)
    retval = err;
  }
}
- read_unlock(&tasklist_lock);
ret = count ? retval : -ESRCH;
- } else if (pid < 0) {
-   ret = kill_pgrp_info(sig, info, find_vpid(-pid));
- } else {
-   ret = kill_pid_info(sig, info, find_vpid(pid));
}
- rCU_read_unlock();
+ read_unlock(&tasklist_lock);
+
return ret;
}

--
```

1.5.3.4
