
Subject: [PATCH 3/4] Clean up the kill_something_info
Posted by [Pavel Emelianov](#) on Mon, 28 Jan 2008 15:16:35 GMT
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This is the first stop (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.

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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 280bccb..ae9f6ba 100644
--- a/kernel/signal.c
+++ b/kernel/signal.c
@@ -1133,14 +1133,22 @@ 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_lock();
+        return ret;
+    }
+
+    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);
@@ -1149,14 +1157,10 @@ 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;
}

```

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1.5.3.4
