Subject: [PATCH 3/4] Clean up the kill_someting_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;
 }

--
1.5.3.4
```