
Subject: [RFC][PATCH] fork: Don't special case CLONE_NEWPID for process or sessions

Posted by [ebiederm](#) on Sat, 27 Oct 2007 01:49:48 GMT

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Given that the kernel supports sys_setsid we don't need a special case in fork if we want to set: session == pgrp == pid.

The historical (although not 2.6) linux behavior has been to start the init with session == pgrp == 0 which is effectively what removing this special case will do.

Is there any reason why we want/need this special case in fork? Or can we remove it and save some code, make copy_process easier to read easier to maintain, and possibly a little faster?

I know it is a little weird belong to a process groups that isn't visible in your pid namespace, but if there are no good reasons why it shouldn't work.

I think making this change makes the interface more flexible, and general.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

kernel/fork.c | 18 +++++-----

1 files changed, 5 insertions(+), 13 deletions(-)

diff --git a/kernel/fork.c b/kernel/fork.c

index dda9dfa..b0de799 100644

--- a/kernel/fork.c

+++ b/kernel/fork.c

```
@ @ -1292,20 +1292,12 @ @ static struct task_struct *copy_process(unsigned long clone_flags,
    if (thread_group_leader(p)) {
        if (clone_flags & CLONE_NEWPID) {
            p->nsproxy->pid_ns->child_reaper = p;
-       p->signal->tty = NULL;
-       set_task_pgrp(p, p->pid);
-       set_task_session(p, p->pid);
-       attach_pid(p, PIDTYPE_PGID, pid);
-       attach_pid(p, PIDTYPE_SID, pid);
-   } else {
-       p->signal->tty = current->signal->tty;
-       set_task_pgrp(p, task_pgrp_nr(current));
-       set_task_session(p, task_session_nr(current));
-       attach_pid(p, PIDTYPE_PGID,
-           task_pgrp(current));
-       attach_pid(p, PIDTYPE_SID,
```

```
- task_session(current));
}
+ p->signal->tty = current->signal->tty;
+ set_task_pgrp(p, task_pgrp_nr(current));
+ set_task_session(p, task_session_nr(current));
+ attach_pid(p, PIDTYPE_PGID, task_pgrp(current));
+ attach_pid(p, PIDTYPE_SID, task_session(current));

list_add_tail_rcu(&p->tasks, &init_task.tasks);
__get_cpu_var(process_counts)++;
--
1.5.3.rc6.17.g1911
```

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