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

Posted by [Pavel Emelianov](#) on Thu, 01 Nov 2007 09:28:23 GMT

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Eric W. Biederman wrote:

Sorry for the late answer, I have just noticed that I forgot to answer on this patch.

> 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.

Hm... I overlooked this fact. Looks like the namespace's init will have them set to 1.

> Is there any reason why we want/need this special case in fork? Or

Mainly to address the issue I describe below.

> 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.

This is not good to have such a situation as the init will have the ability to kill the tasks from the namespace he can't see, e.g. his parent and the processes in that group.

> 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 ddafdfa..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)++;

```

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