
Subject: Re: [RFC][PATCH 09/14] Save leaders struct pid before detach_pid()
Posted by [ebiederm](#) on Wed, 21 Mar 2007 07:31:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

sukadev@us.ibm.com writes:

```
> From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
> Subject: [RFC][PATCH 09/14] Save leaders struct pid before detach_pid()
>
> Save the struct pid of the thread group leader before detaching
> our pid. See comments in the code below for more details.
>
> Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>
> ---
> fs/exec.c | 17 ++++++++
> 1 file changed, 16 insertions(+), 1 deletion(-)
>
> Index: lx26-21-rc3-mm2/fs/exec.c
> =====
> --- lx26-21-rc3-mm2.orig/fs/exec.c 2007-03-20 15:55:52.000000000 -0700
> +++ lx26-21-rc3-mm2/fs/exec.c 2007-03-20 17:17:38.000000000 -0700
> @@ -578,6 +578,7 @@ static int de_thread(struct task_struct
> struct sighand_struct *newsighand, *oldsighand = tsk->sighand;
> spinlock_t *lock = &oldsighand->siglock;
> struct task_struct *leader = NULL;
> + struct pid *leader_pid;
> int count;
>
> /*
> @@ -698,10 +699,24 @@ static int de_thread(struct task_struct
> * The old leader becomes a thread of the this thread group.
> * Note: The old leader also uses this pid until release_task
> * is called. Odd but simple and correct.
> + * Note: Support for multiple pid namespaces implies that there
> + * can be multiple processes with a given pid_t value,
> + * and so, find_pid() needs/uses a notion of "current"
> + * pid namespace to select the appropriate process to
> + * return.
> + *
> + * Since the current pid namespace of a process is stored
> + * in its pid->pid_nrs list, if we detach/free our struct
> + * pid, we would have no way of finding our current pid
> + * namespace and so no way of finding the leader pid.
> + *
> + * To work around, find the leader pid, before detaching
> + * our pid from the task.
> */
> + leader_pid = find_pid(leader->pid);
```

```
> detach_pid(tsk, PIDTYPE_PID);  
> tsk->pid = leader->pid;  
> - attach_pid(tsk, PIDTYPE_PID, find_pid(tsk->pid));  
> + attach_pid(tsk, PIDTYPE_PID, leader_pid);
```

How about just:

```
attach_pid(tsk, PIDTYPE_PID, task_pid(leader));  
> transfer_pid(leader, tsk, PIDTYPE_PGID);  
> transfer_pid(leader, tsk, PIDTYPE_SID);  
> list_replace_rcu(&leader->tasks, &tsk->tasks);
```

Eric

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
