Subject: Re: [PATCH][usercr]: Ghost tasks must be detached Posted by Louis Rilling on Thu, 10 Feb 2011 18:04:33 GMT

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On 10/02/11 9:54 -0800, Sukadev Bhattiprolu wrote:
> Louis Rilling [Louis.Rilling@kerlabs.com] wrote:
> | > I can reproduce a crash with 2.6.32 - where if container-init terminates
> | > before a detached child, we get a crash when the detached child calls
> | > proc flush mnt(). I suspected it was because do wait thread() skipped
> | > over detached tasks (in 2.6.32).
> | >
> | > The same test case does not crash on 2.6.37 - which includes the above commit.
> | > The removes the check for detached tasks, my initial guess is that the above
> | > commit, may have contributed to _fixing_ the crash in 2.6.37.
> | Hm, I don't see how this commit changed things for detached tasks, unless ptrace
> I is involved. Detached tasks go atomically
> | from ->exit_state == 0 to ->exit_state == EXIT_DEAD in exit_notify(),
> | because tracehook notify death() returns DEATH REAP for all not ptraced detached
> | tasks.
> |
> | What do you think has changed precisely?
> Well, one of the changes in the commit is this:
> @ @ -1551,14 +1554,9 @ @ static int do_wait_thread(struct wait_opts *wo, struct task_struct
*tsk)
       struct task struct *p;
>
>
       list_for_each_entry(p, &tsk->children, sibling) {
            * Do not consider detached threads.
            if (!task_detached(p)) {
                 int ret = wait_consider_task(wo, 0, p);
                 if (ret)
                      return ret;
            int ret = wait_consider_task(wo, 0, p);
            if (ret)
                  return ret;
       }
>
>
       return 0;
>
>
> If it was a detached task, do wait thread() skipped over it. In the C/R
> kernel we were setting the ->exit signal to -1 for a "ghost" process.
```

- > I assumed that the container-init exited without waiting for the "ghost"
- > and we were getting the crash in proc_flush_mnt() when the ghost exited.

The point is that wait_consider_task() skips detached tasks as soon as they are not ptraced. So removing the check in do_wait_thread() should not have changed the behavior. Am I missing something?

Thanks,

Louis

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