## Subject: Re: [PATCH][usercr]: Ghost tasks must be detached Posted by Sukadev Bhattiprolu on Mon, 21 Feb 2011 20:40:58 GMT

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Louis Rilling [Louis.Rilling@kerlabs.com] wrote:
 > But in 2.6.32 i.e RHEL5, tsk->signal is set to NULL in __exit_signal().
 > So. I am trying to rule out the following scenario:
 >
 > Child (may not be a ghost) Parent
 > - exit_notify(): is EXIT_DEAD
 > - release task():
   drops task_list_lock
       - itself proceeds to exit.
 >
      - enters release_task()
      - sets own->signal = NULL
        (in 2.6.32, exit signal())
 >
 >
 > - enters exit checkpoint()
 > - __wake_up_parent()
 > access parents->signal NULL ptr
 > Not sure if holding task_list_lock here is needed or will help.
 Giving my 2 cents since I've been Cc'ed.
Thanks, appreciate the input :-)
 AFAICS, holding tasklist_lock prevents __exit_signal() from setting
 parent->signal to NULL in your back. So something like this should be safe:
 read_lock(&tasklist_lock);
 if (current->parent->signal)
 __wake_up_parent(...);
 read_unlock(&tasklist_lock);
Yes, checking the parent->signal with task list lock would work.
 I haven't looked at the context, but of course this also requires that some
 get_task_struct() on current->parent has been done somewhere else before current
 has passed <u>exit_signal()</u>.
 By the way, instead of checking current->parent->signal,
 current->parent->exit_state would look cleaner to me. current->parent is not
 supposed to wait on ->wait childexit after calling do exit(), right?
                                 ^^^^
```

Hmm, do you mean exit\_notify() here?

If so, yes checking the exit\_state is cleaner.

If the parent's exit\_state is set, then it can't be waiting for the ghost, so no need to wake\_up\_parent(). If exit state is not set, then it is safe to wake\_up\_parent() (parent->signal would not yet have been cleared for instance).

The one case where a parent in do\_exit() could still wait for the child is the container-init which waits on wait chldexit in do exit() -> zap\_pid\_ns\_processes() - but even in that case the \_\_wake\_up\_parent() call would be safe.

Sukadev

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