Subject: Re: [PATCH] kthread: Spontaneous exit support Posted by Oleg Nesterov on Mon, 23 Apr 2007 16:58:10 GMT

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On 04/23, Christoph Hellwig wrote:

>

> On Sun, Apr 22, 2007 at 09:12:55PM -0600, Eric W. Biederman wrote:

> >

- > > This patch implements the kthread helper functions kthread_start
- > > and kthread_end which make it simple to support a kernel thread
- > > that may decided to exit on it's own before we request it to.
- >> It is still assumed that eventually we will get around to requesting
- > > that the kernel thread stop.

>

- > I don't think having to parallel APIs is a good idea, people will
- > get utterly confused which one to use. Better always grab a reference
- > in kthread_create and drop it in kthread_stop. For normal thread
- > no change in behaviour and only slightly more code in the slowpath.

>

- > Of course it will need an audit for half-assed kthread conversion
- > first to avoid task_struct reference count leaks.

In that case it is better to grab a reference in kthread(). This also close the race when a new thread is woken (freezer) and exits before kthread_create() does get_task_struct().

- > In addition to that kthrad_end implementation look wrong. When
- > the kthread has exited prematurely no one will call complete
- > on kthread stop info.done before it's been setup.

This is not true anymore, see another patch from Eric

kthread-enhance-kthread_stop-to-abort-interruptible-sleeps.patch

Oleg.

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