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Subject: Re: [PATCH] vt: Rework the console spawning variables.  
Posted by [Oleg Nesterov](#) on Mon, 11 Sep 2006 01:05:34 GMT  
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On 09/10, Eric W. Biederman wrote:

>  
> Ok. I think I see the where the confusion is. We were looking  
> at different parts of the puzzle. But I we need to resolve this  
> to make certain I didn't do something clever and racy.

Yes, I think we misunderstood each other :)

> As for the rest of your suggestion it would not be hard to be able to  
> follow a struct pid pointer in an rcu safe way, and we do in the pid  
> hash table. In other contexts so far I always have other variables  
> that need to be updated in concert, so there isn't a point in coming  
> up with a lockless implementation. I believe vt\_pid is the only  
> case that I have run across where this is a problem and I have  
> at least preliminary patches for every place where signals are  
> sent.  
>  
> Updating this old code is painful.

No, no, we shouldn't change the old code, it is fine.

Just in case, to avoid any possible confusion.

put\_pid(pid) has the following restrictions. The caller should ensure  
that any other possible reference to this pid "owns" it (did get\_pid()).

So we can add a new helper, put\_pid\_rcu(). It is ok if this pid is used  
in parallel under rcu\_read\_lock() without bumping pid->count. Contrary,  
the only restriction those users must not call get\_pid(pid).

But yes, you are right, I don't see an immediate usage of put\_pid\_rcu().

Oleg.

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