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Subject: Re: [PATCH] Isolate some explicit usage of task->tgid  
Posted by [Oleg Nesterov](#) on Fri, 17 Aug 2007 14:45:41 GMT  
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On 08/17, Pavel Emelyanov wrote:

>  
> Actually the p->tgid == pid has to be changed to has\_group\_leader\_pid(),  
> but Oleg pointed out that this is the same and thread\_group\_leader()  
> is more preferable.

No, no, sorry for confusion! I was not clear. I meant that thread\_group\_leader() is imho better for posix timers, but

> @@ -865,8 +865,8 @@ static int de\_thread(struct task\_struct  
>  
> write\_lock\_irq(&tasklist\_lock);  
>  
> - BUG\_ON(leader->tgid != tsk->tgid);  
> - BUG\_ON(tsk->pid == tsk->tgid);  
> + BUG\_ON(!same\_thread\_group(leader, tsk));  
> + BUG\_ON(thread\_group\_leader(tsk));

This should be has\_group\_leader\_pid(), BUG\_ON() really checks that we didn't confuse ->tgid's.

> /\*  
> \* An exec() starts a new thread group with the  
> \* TGID of the previous thread group. Rehash the  
> diff --git a/fs/proc/base.c b/fs/proc/base.c  
> index e3009ab..31e7dfe 100644  
> --- a/fs/proc/base.c  
> +++ b/fs/proc/base.c  
> @@ -2288,7 +2288,7 @@ retry:  
> \* found doesn't happen to be a thread group leader.  
> \* As we don't care in the case of readdir.  
> \*/  
> - if (!task || !has\_group\_leader\_pid(task))  
> + if (!task || !thread\_group\_leader(task))

And this \_must\_ be has\_group\_leader\_pid(), this was actually the reason to introduce the "has\_group\_leader\_pid()" helper.

Otherwise I think the patch is fine, and the new helper is really useful.

Oleg.

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