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Subject: Re: [patch -mm] update mq\_notify to use a struct pid  
Posted by [Oleg Nesterov](#) on Mon, 11 Sep 2006 15:48:33 GMT  
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On 09/11, Cedric Le Goater wrote:

>  
> Eric W. Biederman wrote:  
> > Cedric Le Goater <clg@fr.ibm.com> writes:  
> >  
> >> message queues can signal a process waiting for a message.  
> >>  
> >> this patch replaces the pid\_t value with a struct pid to avoid pid wrap  
> >> around problems.  
> >>  
> >> Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>  
> >> Cc: Eric Biederman <ebiederm@xmission.com>  
> >> Cc: Andrew Morton <akpm@osdl.org>  
> >> Cc: containers@lists.osdl.org  
> >  
> > Signed-off-by: Eric Biederman <ebiederm@xmission.com>  
> >  
> > I was just about to send out this patch in a couple more hours.  
>  
> Well, you did the same with the usb/devio.c and friends :)  
>  
> > So expect the fact we wrote the same code is a good sign :)  
>  
> How does oleg feel about it ? I've seen some long thread on possible race  
> conditions with put\_pid() and solutions with rcu. I didn't quite get all of  
> it ... it will need another run for me.

I assume you are talking about this patch:

<http://marc.theaimsgroup.com/?l=linux-mm-commits&m=115773820415171>

I think it's ok, info->notify\_owner is always used under info->lock.

This is simple. If, for example, mqqueue\_read\_file() didn't take info->lock, then we have a problem: pid\_nr() may read a freed memory in case when \_\_do\_notify()->put\_pid() happens at the same time.

In this context info->notify\_owner is a usual refcounted object, no special attention is needed.

Oleg.

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Containers mailing list  
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