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Subject: Re: [PATCH 19/20] Changes to show virtual ids to user  
Posted by [serue](#) on Thu, 16 Aug 2007 12:13:54 GMT  
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Quoting Andrew Morton ([akpm@linux-foundation.org](mailto:akpm@linux-foundation.org)):

> On Fri, 10 Aug 2007 15:48:28 +0400  
> [xemul@openvz.org](mailto:xemul@openvz.org) wrote:  
>  
> > This is the largest patch in the set. Make all (I hope) the places where  
> > the pid is shown to or get from user operate on the virtual pids.  
> >  
> > The idea is:  
> > - all in-kernel data structures must store either struct pid itself  
> > or the pid's global nr, obtained with pid\_nr() call;  
> > - when seeking the task from kernel code with the stored id one  
> > should use find\_task\_by\_pid() call that works with global pids;  
> > - when showing pid's numerical value to the user the virtual one  
> > should be used, but however when one shows task's pid outside this  
> > task's namespace the global one is to be used;  
> > - when getting the pid from userspace one need to consider this as  
> > the virtual one and use appropriate task/pid-searching functions.  
> >  
> > ...  
> >  
> > - si.si\_pid = current->pid;  
> > + si.si\_pid = task\_pid\_vnr(current);  
>  
> This is going to be an ongoing maintenance problem: people will sneak  
> new references to current->pid into the tree and nobody will notice.  
>  
> It'd be best to rename task\_struct.pid to something else to catch such  
> problems and to force people to use the right accessors. Is that feasible?

It's certainly feasible, and something we'd previously done for instance  
in <http://marc.info/?l=linux-kernel&m=113751118609597&w=2>

> Generally this is a tactic which should be used whenever things like this  
> are virtualised.

Ok, it's a big invasive patchset, but there's no reason we can't do it.

thanks,  
-serge

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Containers mailing list  
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<https://lists.linux-foundation.org/mailman/listinfo/containers>

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