
Subject: Re: process_group()
Posted by [ebiederm](#) on Sun, 21 Jan 2007 02:59:46 GMT
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Sukadev Bhattiprolu <sukadev@us.ibm.com> writes:

```
> We currently have:
>
>
> static inline pid_t process_group(struct task_struct *tsk)
> {
>     return tsk->signal->pgrp;
> }
> and
>
> static inline struct pid *task_pgrp(struct task_struct *task)
> {
>     return task->group_leader->pids[PIDTYPE_PGID].pid;
> }
>
> and we are replacing process_group() with task_pgrp() and eventually
> plan to remove process_group().
>
> But there are several places in the kernel where we interact with
> user space using a pid_t (obvious being sys_setpgid(), sys_getpgid()
> do_task_stat(), do_wait() etc).
>
> In all these places, process_group(p) would simply be replaced by
> pid_nr(task_pgrp(p)). Rather than do that same replacement in many
> places, can we keep the interface and change the implmenation to:
>
> static inline pid_t process_group(struct task_struct *tsk)
> {
>     return pid_nr(task_pgrp(tsk));
> }
>
> i.e our ultimate goal is not really to remove process_group() but
> actually to remove the caching of pid_t in signal->pgrp right ?
>
> The above disussion is also valid for process_session()/task_session().
```

Close. Our ultimate goal is to make it so that when you talk within the kernel you use a struct pid not a pid_t value. Attacking the cached pid_t values is merely a way finding those places.

So fixing thing like the pid_t value passed as credentials in unix domain sockets is a lot more important than fixing any use of process_session that just goes to user space.

The reason it is important is because different processes may be in different pid namespaces and raw pid_t values just won't make sense while struct pid references are pid namespace independent.

Eric

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