Subject: Re: [RFC][PATCH] Pid namespaces vs locks interaction Posted by Brad Boyer on Sat, 08 Dec 2007 22:21:19 GMT

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On Thu, Dec 06, 2007 at 09:51:30AM -0600, Serge E. Hallyn wrote:
> Quoting Vitaliy Gusev (vgusev@openvz.org):
>> fl pid is used by nfs, fuse and qfs2. For instance nfs keeps in fl pid some
> > unique id to identify locking process between hosts - it is not a process
> > pid.
>
> Ok, but so the struct user_flock->fl_pid is being set to the task's
> virtual pid, while the struct kernel flock->fl pid is being set to
> task->tgid for nfsd use.
>
> Why can't nfs just generate a uniqueid from the struct pid when it
> needs it?
> Fuse just seems to copy the pid to report it to userspace, so it would
> just copy pid vnr(kernel flock->pid) into user flock->fl pid.
>
> Anyway I haven't looked at all the uses of struct fl pid, but you
> can always get the pidnr back from the struct pid if needed so there
> should be no problem.
```

Perhaps we could add a sysid field like some unix systems have. Here is the flock structure documentation from Sun:

The flock structure contains at least the following elements:

Using the sysid could show that the pid field refers to a separate namespace, and might also be useful for NFS to show that the lock is really held by a process on a different system. This would also be something we could export to user space in a way that some programs are already written to expect and handle properly.

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