Subject: Re: [RFC][PATCH] Do not set /proc inode->pid for non-pid-related inodes Posted by serue on Tue, 20 Mar 2007 16:00:57 GMT

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Quoting Eric W. Biederman (ebiederm@xmission.com):
> "Serge E. Hallyn" <serue@us.ibm.com> writes:
>
> > Quoting Eric W. Biederman (ebiederm@xmission.com):
> >> Dave Hansen <hansendc@us.ibm.com> writes:
>>> On Mon, 2007-03-19 at 20:04 -0600, Eric W. Biederman wrote:
>>> >> I would also
>>> > like to see how we perform the appropriate lookups by pid namespace.
>>> What do you mean?
> >>
>>> proc_pid_readdir ... next_tgid().
>> next_tgid() is simple enough - we can always use current->pid_ns to find
> > the next pidnr.
> No. We cannot use current->pid ns. We must get it from the mount or
> something in the mount.
Actually I think Dave has it coming from superblock data.
> Using current to set the default pid_ns to mount is fine. But if
> we use current to select our files we have a moderately serious problem.
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- > >> The only hitch, as mentioned earlier, is how do we find the first task.
- >> Currently task 1 is statically stored as the first inode, and as Dave
- > > mentioned we can't do that now, because we dont' know of any one task
- > > which will outlive the pid_ns.
- > Outlive is the wrong concept. Ideally we want something that will
- > live as long as there are processes in the pid ns.

And there is no such thing.

- > As I thought about this some more there are some problems for holding
- > a reference to a pid ns for a long period of time. Currently struct pid
- > is designed so you can hang onto it forever. struct pid_namespace isn't.
- > So we have some very interesting semantic questions of what happens when
- > the pid namespace exits.
- > Since we distinguish mounts by their pid namespace this looks like
- > something we need to sort through.

Yup.

- >>> While I'm not categorically opposed to supporting things like that it
 >>> but it is something for which we need to tread very carefully because
 >>> it is an extension of current semantics. I can't think of any weird
 >> semantics right now but for something user visible we will have to
 >>> support indefinitely I don't see a reason to rush into it either.
 >>
 >> Except that unless we mandate that pid1 in any namespace can't exit, and
 > put that feature off until later, we can't not address it.
- > What if we mandate that pid1 is the last process to exit?

I think people have complained about that in the past for application containers, but I really don't see where it hurts anything.

Cedric, Herbert, did one of you think it would be bad?

- > Problems actually only show up in this context if other pids live > substantially longer than pid1.
- > substantially longer than plut.
 > > True but we are getting close. And it is about time we worked up
 > > patches for that so our conversations can become less theoretical.
- >> Yes I really hope a patchset goes out today.
- Sounds good. I expect it will take a couple of rounds of review,before we have all of the little things nailed down but starting thatprocess is a hopeful sign.

I'm hoping some of the earlier patches can be acked this time so we can get to discussing the more interesting parts :)

But I'm afraid it might be no earlier than tomorrow that the patches go out. Will try.

thanks, -serge

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