## Subject: Re: [RFC][PATCH] Do not set /proc inode->pid for non-pid-related inodes Posted by serue on Tue, 20 Mar 2007 14:58:12 GMT

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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:
> >> Dave Hansen <hansendc@us.ibm.com> writes:
>>> Regardless I would like to see a little farther down on
>>> how we test to see if the pid namespace is alive and how we
>>> make these functions do nothing if it has died.
> >
>> That shouldn't be too hard. We have access to the superblock pretty
> > much everywhere, and we now store the pid_namespace in there (with some
> > patches I posted earlier).
> Sounds right. I don't think my original version had that. Which
> changes the rules a little bit.
> >> 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 tqid() is simple enough - we can always use current->pid ns to find
the next pidnr.
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.
>>> Basically I want to see how we finish up multiple namespace support
> >> for /proc before we start with the micro optimizations.
> >
> > Serge was tracking down some weird /proc issues and noticed that we
>> expect a pid nr==1 for the pid namespace as long as it has a /proc
> > around. That is an assumption doesn't always hold now.
> Maybe. It really depends on how we define a namespace exiting.
> That must be in the lxc tree.
> There should be no code in the -mm or in Linus's tree that has
> that property.
```

## True.

- > 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.

- >>> I'm fairly certain this patch causes us to do the wrong thing when
- >>> the pid namespace exits, and I don't see much gain except for the
- > >> death of find\_get\_pid.

- >> In the default, mainline case, it shouldn't be a problem at all. We
- > > don't have the init pid namespace exiting.

- > 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.

- >> Shouldn't the lifetime of things under a /proc mount be tied to the life
- >> of the mount, and not to the pid\_namespace it is tied to? It seems
- > > relatively sane to me to have a /proc empty of all processes, but still
- > > have /proc/cpuinfo even if all of its processes are gone.

- > That is what is implemented. When the pid namespace goes away there
- > are no more pid directories, and the /proc/self symlink goes away.
- > But everything else remains.

>

- > If you look proc\_root\_readdir is not affected when the pid namespace
- > goes away. Just proc\_pid\_readdir.

>

- > Everything in fs/proc/base.c is about pid files in one way or another.
- >> pid delete dentry() looks like the remaining place that really cares.
- >> It would be pretty easy to have it check the pid namespace.

>

- > Sure although it also needs the pid check for files that have it as
- > the process can go away sooner.
- > Eric

- > Containers mailing list
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