Subject: Re: Which of the virtualization approaches is more suitable for kernel? Posted by ebiederm on Mon, 27 Feb 2006 21:56:37 GMT

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Dave Hansen haveblue@us.ibm.com> writes:

- > On Mon, 2006-02-27 at 14:14 -0700, Eric W. Biederman wrote:
- >> I like the namespace nomenclature. (It can be shorted to _space or _ns).
- >> In part because it shortens well, and in part because it emphasizes that
- >> we are *just* dealing with the names.

- > When I was looking at this, I was pretending to be just somebody looking
- > at sysv code, with no knowledge of containers or namespaces.

- > For a person like that, I think names like _space or _ns are pretty much
- > not an option, unless those terms become as integral to the kernel as
- > things like kobjects.

To be clear I was talking name suffixes. So ipc_space certainly conveys something, and even ipc ns may be ok.

- >> You split the resolution at just ipc msgs. When I really think it should
- >> be everything ipcs deals with.
- > This was just the first patch. :)

:)

Just wanted to make certain we agreed on the scope.

>> Performing the assignment inside the tasklist lock is not something we >> want to do in do_fork().

- > Any particular reason why? There seem to be a number of things done in
- > there that aren't _strictly_ needed under the tasklist_lock. Where
- > would you do it?

Well all of the other things we can share or not share are already outside of the tasklist lock.

We may not be quite minimal but we actually are fairly close to minimal inside the tasklist lock.

- >> So it looks like a good start. There are a lot of details yet to be filled
- >> in, proc, sysctl, cleanup on namespace release. (We can still provide
- >> the create destroy methods even if we don't hook the up).

> Yeah, I saved shm for last because it has the largest number of outside

> interactions. My current thoughts are that we'll need _contexts or > _namespaces associated with /proc mounts as well.

Yes. I think the easy way to handle this is to have a symlink from /proc/sysvipc to /proc/self/sysvipc. And then we have a per process reporting area.

That preserves all of the old programs but enables us to get the information out.

>> I think in this case I would put the actual namespace structure >> definition in util.h, and just put a struct ipc_ns in sched.h. > > Ahhh, as in > struct ipc_ns; > And just keep a pointer from the task? Yeah, that does keep it quite > isolated.

Yep.

Eric