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Subject: Re: Pid namespaces problems

Posted by [Pavel Emelianov](#) on Thu, 08 Nov 2007 10:40:37 GMT

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Daniel Lezcano wrote:

> Pavel Emelianov wrote:

>> Daniel Lezcano wrote:

>>> Cedric Le Goater wrote:

>>>>> - There are several architectures with their own signal functions for

>>>>> other OS compatibility that have are using \_pid and not \_vpid

>>>>> variants of functions. (irix and solaris)

>>>>> arch/mips/kernel/irixsig.c:irix\_waitsys

>>>>> arch/mips/kernel/sysirix.c:irix\_setpgrp

>>>>> arch/sparc64/solaris/misc.c:solaris\_procids

>>>>> Ok. Looks like your list is the same as mine. That's good to hear

>>>>> that I haven't missed anything important.

>>>>> We've also talked about af\_unix credentials.

>>>>>

>>>>> So, I see that you're about to take a closer look at the pid

>>>>> namespaces. If so, then what time can we expect the net namespace

>>>>> activity to go on? Or (if you don't mind) can we start merging

>>>>> the patches to David as soon as he opens his 2.6.25 merge window?

>>>>> I think daniel and benjamin are also getting ready for the 2.6.25

>>>>> merge window.

>>>>> Yes. It can be cool if we can sync up Benjamin, Pavel, Denis, Eric and I

>>>>> with the different parts to be posted.

>>>>> Yup. Team work will give us a chance to get in to the 2.6.25 with

>>>>> the core virtualization. By core I mean unix, netlinux, ipv4 and ipv6.

>>>>>

>>>>> Yeah, if we can push these protocols in time, that will be \*very very\*

>>>>> cool :)

>>>>>

>>>>> When you talk about ipv4/ipv6 do you include tcp/udp ?

>>>>>

>>>>> Netfilters virtualization is a complex task :)

>>>>>

>>>>> Benjamin and I we began to look

>>>>> at ipv4. This is a big part, perhaps we can split that into several

>>>>> subset and dispatch them, except if Pavel and Denis already rebase ipv4

>>>>> for net-2.6, in this case feel free to send them out.

>>>>> Well, actually we have almost moved to the net-2.6 with the ipv4

>>>>> set.

>>>>>

>>>>> Excellent !

>>>>> Did you took the different patches I sent for udplite and multicast ?

Not yet, sorry. But we will look at them as soon as we finish with the existing netns tree.

> If you rebased netns49 to net-2.6 and you plan to keep synced with the  
> Dave Miller tree, perhaps it is time to switch the git tree.  
> It can be cool if you can put a git tree at openvz.

Sure, but right now we don't have a git repo with it :( We just have a series of patches, some of them are fixes, some not. We are going to re-split them and publish to git. I think that the next week the git.openvz.org will have that repo.

What about your ipv6? Do you have a git repo with it?

>> There are only some minor (I hope they are minor ;)) things.

>

> Perhaps, we can help here.

Yes, of course. When we publish the git repo we'll try to provide a TODO list so that everyone can participate.

>> So we would be glad to go on with ipv4 further. What's up with the  
>> ipv6 patches, Daniel? You said that you and Benjamin make some  
>> big progress in this area, no?

>

> Yes, for the moment we reach the addrconf stuff, so we have routing  
> table, ip6\_fib, fib6\_rules, ndisc and addrconf per namespaces.

> The patches sent by Alexey Dobriyan making /proc/net/ipv6\_route to the  
> seq\_file interface has made our life easier.

:) We plan to make some cleanups in the networking code that make sense even now, but are useful for namespaces.

> IMHO this part of ipv6 is the most difficult, the different protocols  
> relying on it will be much more easy to implement.

>

> We are actually facing two problems:

>

> \* the first one is the locking of the network namespace list by  
> rtnl\_lock, so from the timer callback we can not browse the network  
> namespace list to check the age of the routes. It is a problem I would  
> like to talk with Denis if he has time

Sure. I will kick him in case he missed it accidentally :)

> \* the loopback refcounting is not correctly handled in ipv6. This  
> protocol do not expect to have the loopback to be unregistered, so there  
> is some problem with the addr\_ifdown function when exiting the network  
> namespace

Hm! This is one of the issues we can send to David right now. Do you have any patches? If not, I can take care of it if you don't mind.

> Regards.  
> -- Daniel  
>

Thanks,  
Pavel

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