Subject: Re: [PATCH] pidns: Place under CONFIG_EXPERIMENTAL (take 2) Posted by Adrian Bunk on Sat, 27 Oct 2007 02:04:08 GMT View Forum Message <> Reply to Message

On Fri, Oct 26, 2007 at 07:31:04PM -0600, Eric W. Biederman wrote: > Adrian Bunk <bunk@kernel.org> writes: > > CONFIG_EXPERIMENTAL is a weak hint that some code might not (yet) be in > > a perfect state, but it does not have any semantics regarding > > userspace ABIs. > > Code that might not (yet) be in a perfect state sums it up pretty > well. There is not plan or expectation to change magic numbers or > things like that but the behavior of the code may change as bug and > such are fixed. > > > A dependency on BROKEN seems more appropriate. > > Since you can't select that it seems a little strong. > > ... > > One of the things we talked about at the kernel summit is how > almost inevitably when new user space interfaces are introduced > there are problems. Someone over looks something, something > gets changed to get through the review something like that. There was > discussion but no consensus on how do introduce something like that > but still allow our selves the ability to fix it. Keeping the > code under CONFIG EXPERIMENTAL is the best suggest I have seen > so far. Even if it is slightly expanding the definition of > CONFIG EXPERIMENTAL. > > Every place the kernel uses pids is a huge scope. It is very > easy to miss something with a scope that wide. So the engineer > in me says chances of us missing something are pretty huge. > Especially since I know we have bugs in -rc1. > > If it turns out that making multiple pid namespaces work is > hopeless we can always change the dependency to BROKEN later. No, we can't after 2.6.24 got released. Let me make an example: - looking at the timelines, e.g. Ubuntu 8.04 LTS is likely to ship with 2.6.24 - this experimental feature might be enabled there - this Ubuntu release with this kernel will be supported and used for five years

> As for ABI and behavioral characteristics currently that is

> largely well defined. You are supposed to get the exact

> same thing as you would on the system if you only had a

> single pid namespace. The places where we have questionable

> semantics is in the intersections between namespaces.

>

> That is not an area I am willing to stand up and say we got

> it perfect the first time, I'm going to support our behavior

> quirks forever if I can find soon enough. Very few applications

> will care, and the differences might really matter at some point.

>

> So does any one have any better suggestions on how to deal

> with features that are enough work you aren't going to get them

> perfect the first time. You need the code merged or else you

> can not complete the feature (too many dependencies through out the

> code). You want early adopters to start playing with the feature

> so you can get feed back and you can test to make certain everything

> is going ok. You want to retain the ability to fix implementation

> details even if those details are user visible, for a time until

> things seem as good as they can reasonably get.

>

Roughly that sounds like CONFIG_EXPERIMENTAL to me. But I would
be happy to hear if someone has a better idea.

There is a difference between "complete the feature" and "early adopters to start playing with the feature" on the one side, and making something available in a released kernel on the other side.

For development and playing with it it can depend on BROKEN (perhaps with the dependency removed through the first -rc kernels), but as soon as it's available in a -final kernel the ABI is fixed.

> Eric

cu Adrian

"Is there not promise of rain?" Ling Tan asked suddenly out of the darkness. There had been need of rain for many days. "Only a promise," Lao Er said. Pearl S. Buck - Dragon Seed

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