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Subject: Re: [PATCH 0/9] namespaces: Introduction  
Posted by [Andrew Morton](#) on Fri, 19 May 2006 15:13:34 GMT  
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Herbert Poetzl <herbert@13thfloor.at> wrote:

>  
> let me  
> give a simple example here:

Examples are useful.

> "pid virtualization"  
>  
> - Linux-VServer doesn't really need that right now.  
> we are perfectly fine with "pid isolation" here, we  
> only "virtualize" the init pid to make pstree happy  
>  
> - Snapshot/Restart and Migration will require "full"  
> pid virtualization (that's where Eric and OpenVZ  
> are heading towards)

snapshot/restart/migration worry me. If they require complete serialisation of complex kernel data structures then we have a problem, because it means that any time anyone changes such a structure they need to update (and test) the serialisation.

This may be a show-stopper, in which case maybe we only need to virtualise pid #1.

> - OpenSSI and \*Mosix require system wide pid spaces  
> which probably could be implemented with virtual  
> pid spaces as well  
>  
> - many security addons provide something called pid  
> randomization, and I think they could probably  
> benefit from a virtual pid space, too

ok.

Anyway. Thanks, guys. It sound like most of this work will be nicely separable so we can think about each bit as it comes along.

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