Subject: Re: Multiple instances of devpts Posted by hpa on Sat, 12 Apr 2008 19:24:32 GMT

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## Eric W. Biederman wrote:

>>

- >> /dev/ptmx can be a symlink ptmx -> pts/ptmx, and we add a ptmx instance
- >> inside the devpts filesystem. Each devpts filesystem is responsible for
- >> its own pool of ptys, with own numbering, etc.

>>

- >> This does mean that entries in /dev/pts are more than just plain device
- >> nodes, which they are now (you can cp -a a device node from /dev/pts
- >> into another filesystem and it will still "just work"), but I doubt this
- >> actually matters to anyone. If anyone cares, now I guess would be a
- >> good time to speak up.

>

- > Agreed. That is another legitimate path. And if all you care about is
- > isolation and not dealing with the general class of problems with the
- > global device number to device mapping that is sane. I know we have
- > several other virtual devices that we tend to care about but ptys are
- > the real world pain point.

>

Thinking about it further, allowing this restriction would also allow a whole lot of cleanups inside the pty setup, since it would eliminate the need to do a separate lookup to find the corresponding devpts entry in pty\_open(). The benefit here comes from the closer coupling between the pty and the devpts filesystem and isn't at all related to namespaces, but it's a very nice side benefit.

-hpa

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