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Subject: Re: [PATCH] kthread: saa7134-tvaudio.c  
Posted by [ebiederm](#) on Wed, 30 Aug 2006 12:39:49 GMT  
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ebiederm@xmission.com (Eric W. Biederman) writes:

> Andrew Morton <akpm@osdl.org> writes:  
>  
>> So in general, yes, the driver should be converted to the kthread API -  
>> this is a requirement for virtualisation, but I forget why, and that's the  
>> "standard" way of doing it.  
>  
> With the kthread api new kernel threads are started as children of keventd  
> in well defined circumstances. If you don't do this kernel threads  
> can wind up sharing weird parts of a parent process's resources and  
> locking resources in the kernel long past the time when they are  
> actually used by anything a user space process can kill.  
>  
> We have actually witnessed this problem with the kernels filesystem mount  
> namespace. Mostly daemonize in the kernel unshares everything that  
> could be a problem but the problem is sufficiently subtle it makes  
> more sense to the change kernel threads. So these weird and subtle  
> dependencies go away.  
>  
> So in essence the container work needs the new kthread api for the  
> same reasons everyone else does it is just more pronounced in that  
> case.

That plus the obvious bit. For the pid namespace we have to declare war on people storing a pid\_t values. Either converting them to struct pid \* or removing them entirely. Doing the kernel\_thread to kthread conversion removes them entirely.

Eric

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[Containers@lists.osdl.org](mailto:Containers@lists.osdl.org)  
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