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Subject: Re: [RFC][PATCH] rename 'struct pid'  
Posted by [dev](#) on Wed, 11 Apr 2007 07:59:40 GMT  
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Dave Hansen wrote:

> On Tue, 2007-04-10 at 22:52 -0600, Eric W. Biederman wrote:  
>  
>> Dave Hansen <hansenc@us.ibm.com> writes:  
>>  
>>>> A pid (pid\_t or  
>>>> struct pid) isn't just an identifier it is a handle to processes.  
>>>> struct pid just does so more directly because it is inside the kernel.  
>>>  
>>> Let's face it, "pid" has a meaning. It's a number. It's what you  
>>> kill(1). The meaning has been there for a long, long time. 'struct  
>>> pid' is a completely different concept, and it's certainly more than  
>>> "just a number".  
>>  
>> Yes. "pid" has a meaning. The meaning is old and well established.  
>> That meaning is not just a number, just like a file descriptor is not  
>> just a number.  
>  
>  
> That's a great example. Userspace fds are to 'struct file' as pids are  
> to 'struct pid', right?  
>  
> I actually think 'struct file' is a pretty good name. Think of what  
> do\_sys\_open() might look like if we called 'struct file' 'struct fd'  
> instead and 'fdp' instead of 'filp'.  
>  
> We end up with lines like:  
>  
> fd\_install(fd, fdp);  
>  
> Which makes it confusing which fd we're dealing with or what the 'fd\_'  
> in the name refers to, the 'fd' or the 'fdp'. It makes quite a bit of  
> sense to have 'fd' and 'struct file' named quite distinctly.

Totally agree with Dave.

Current code looks like a mess of word 'pid'.

Eric, why do you object so much? it doesn't change any functionality at all  
just makes code a bit more readable/clear.

Dave, taskref sounds a bit too much generic for me...

But I can't provide some better name :/

pid - number

pref (or tref) - process (task) ref, e.g. pid(filp->f\_owner.pref)  
pref\_struct - former pid\_struct, e.g. struct pref\_struct pref;  
?

Thanks,  
Kirill

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Containers mailing list  
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