Subject: Re: [RFC PATCH 0/5] Resend - Use procfs to change a syscall behavior Posted by Pavel Machek on Tue, 08 Jul 2008 21:58:21 GMT

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>>> An alternative to this solution consists in defining a new field in the
>>>> task structure (let's call it next_syscall_data) that, if set, would change
>>>> the behavior of next syscall to be called. The sys_fork_with_id() previously
>>>> cited can be replaced by
>>>> 1) set next syscall data to a target upid nr
>>>>> (all fork).
>>>>
>>> ...bloat task struct and
>>>>
>>>> A new file is created in procfs: /proc/self/task/<my_tid>/next_syscall_data.
>>>> This makes it possible to avoid races between several threads belonging to
>>>> the same process.
>>>>
>>> ...introducing this kind of uglyness.
>>>>
>>> Actually, there were proposals for sys indirect(), which is slightly
>>> less ugly, but IIRC we ended up with adding syscalls, too.
>>>
>> Silly question...
>>>
>> Oren, would you object to defining sys_fork_with_id(),
>> sys_msgget_with_id(), and sys_semget_with_id()?
>>>
>>> Eric, Pavel (Emelyanov), Dave, do you have preferences?
>>>
>>> For the cases Nadia has implemented here I'd be tempted to side with
>> Pavel Machek, but once we get to things like open() and socket(), (a)
>>> the # new syscalls starts to jump, and (b) the per-syscall api starts to
>>> seem a lot more cumbersome.
> You should not need to modify open/socket. You can already select fd
> > by creatively using open/dup/close...
> That's what we do right now in cryo. And if we end up patching up every
> API with separate syscalls, then we wouldn't create open with id(). But
> so long as the next id were to exist, exploiting it in open is nigh on
> trivial and much nicer.
```

Ok, so ignore previous email. You know how unix works.

I believe you should just introduce syscalls you need. Yes, introducing new syscalls is hard/expensive, but changing existing syscalls is simply bad idea.

So what new syscalls do you _really_ need? Not open_this_fd, nor socket_this_fd.

Pavel

(english) http://www.livejournal.com/~pavelmachek (cesky, pictures) http://atrey.karlin.mff.cuni.cz/~pavel/picture/horses/blog.html

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