
Subject: Re: Extending syscalls
Posted by [hpa](#) on Thu, 17 Jan 2008 19:26:23 GMT
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Jonathan Corbet wrote:

>
> Heh, indeed. But we do seem to have a recurring problem of people
> wanting to extend sys_foo() beyond the confines of its original API.
> I've observed a few ways of doing that:
>
> - create sys_foo2() (or sys_foo64(), or sys_foat(), or sys_pfoo(),
> or...) and add the new stuff there.
>
> The first approach has traditionally been the most popular. If we have
> a consensus that this is the way to extend system calls in the future,
> it would be nice to set that down somewhere. We could avoid a lot of
> API blind alleys that way.
>

I would argue it is the right approach. It lets the kernel system call entry dispatch directly to the system call for the "new" case, and to a compatibility thunk for the "old" case. It has the following desirable properties:

- No overhead for the "new" case.
- Minimal overhead for the "old" case.
- Easily dealt with by tools like strace that examine system calls.

-hpa

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