

Linus,

Not a problem and fully agree with you.
Just had to better review patch before sending.

Do you have any other ideas/comments on this?
I will send additional IPC/filesystems virtualization patches a bit later.

Kirill

> On Fri, 3 Feb 2006, Kirill Korotaev wrote:
>> This patch introduces some abstract container/VPS kernel structure and tiny
>> amount of operations on it.
>
> Please don't use things like "vps_t".
>
> It's a _mistake_ to use typedef for structures and pointers. When you see
> a
>
> vps_t a;
>
> in the source, what does it mean?
>
> In contrast, if it says
>
> struct virtual_container *a;
>
> you can actually tell what "a" is.
>
> Lots of people think that typedefs "help readability". Not so. They are
> useful only for
>
> (a) totally opaque objects (where the typedef is actively used to _hide_
> what the object is).
>
> Example: "pte_t" etc opaque objects that you can only access using
> the proper accessor functions.
>
> NOTE! Opaqueness and "accessor functions" are not good in themselves.
> The reason we have them for things like pte_t etc is that there
> really is absolutely _zero_ portably accessible information there.
>
> (b) Clear integer types, where the abstraction _helps_ avoid confusion
> whether it is "int" or "long".

>
> u8/u16/u32 are perfectly fine typedefs.
>
> NOTE! Again - there needs to be a `_reason_` for this. If something is
> "unsigned long", then there's no reason to do
>
> typedef long myflags_t;
>
> but if there is a clear reason for why it under certain circumstances
> might be an "unsigned int" and under other configurations might be
> "unsigned long", then by all means go ahead and use a typedef.
>
> (c) when you use sparse to literally create a `_new_` type for
> type-checking.
>
> Maybe there are other cases too, but the rule should basically be to NEVER
> EVER use a typedef unless you can clearly match one of those rules.
>
> In general, a pointer, or a struct that has elements that can reasonably
> be directly accessed should `_never_` be a typedef.
>
> Linus
>
