
Subject: Re: [PATCH] Introduce a handy list_first_entry macro
Posted by [Randy Dunlap](#) on Tue, 17 Apr 2007 17:29:45 GMT
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On Tue, 17 Apr 2007 15:18:56 +0400 Pavel Emelianov wrote:

```
> There are many places in the kernel where the construction like
>
>   foo = list_entry(head->next, struct foo_struct, list);
>
> are used.
> The code might look more descriptive and neat if using the macro
>
>   list_first_entry(head, type, member) \
>       list_entry((head)->next, type, member)
>
> Here is the macro itself and the examples of its usage in the
> generic code. If it will turn out to be useful, I can prepare
> the set of patches to inject in into arch-specific code, drivers,
> networking, etc.
>
> Signed-off-by: Pavel Emelianov <xemul@openvz.org>
> Signed-off-by: Kirill Korotaev <dev@openvz.org>
>
> ---
> diff --git a/include/linux/list.h b/include/linux/list.h
> index fd59659..71318fc 100644
> --- a/include/linux/list.h
> +++ b/include/linux/list.h
> @@ -425,6 +425,9 @@ static inline void list_splice_init_rcu(
> #define list_entry(ptr, type, member) \
>   container_of(ptr, type, member)
>
> +#define list_first_entry(ptr, type, member) \
> + list_entry((ptr)->next, type, member)
> +
```

Please provide kernel-doc for that like the rest of list.h has.

```
> /**
>  * list_for_each - iterate over a list
>  * @pos: the &struct list_head to use as a loop cursor.
```

~Randy

*** Remember to use Documentation/SubmitChecklist when testing your code ***
