Subject: Re: [PATCH] Introduce a handy list_first_entry macro Posted by Zach Brown on Tue, 17 Apr 2007 17:11:44 GMT View Forum Message <> Reply to Message

On Tue, Apr 17, 2007 at 03:18:56PM +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)

> - dquot = list_entry(dirty->next, struct dquot, dq_dirty);

> + dquot = list_first_entry(dirty, struct dquot, dq_dirty);

I think it's more than just descriptive and neat. A common sneaky bug is to accidentally pass &list->next into list_entry() instead of list->next. This is easy to do because one is used to typing &list in list_empty(), etc. So by following ->next in the macro we make the list argument consistent in list_empty() and list_first_entry() and hopefully reduce the risk of making that mistake.

I like it.

- Z

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