
Subject: Re: [ckrm-tech] [RFC][PATCH] UBC: user resource beancounters
Posted by [Kyle Moffett](#) on Thu, 24 Aug 2006 23:55:11 GMT

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On Aug 24, 2006, at 19:48:28, Chandra Seetharaman wrote:

> On Thu, 2006-08-24 at 12:10 +0100, Alan Cox wrote:

>> All you need is

>>

>> struct wombat_controller

>> {

>> struct user_beancounter counter;

>> void (*wombat_pest_control)(struct wombat *w);

>> atomic_t wombat_population;

>> int (*wombat_destructor)(struct wombat *w);

>> };

>

> This may not solve the problem, as

> - we won't be able get the controller data structure given the

> beancounter data structure.

Of course you can! This is what we do for linked lists too. Here's an example of how to get a pointer to your wombat_controller given the user_beancounter pointer:

```
struct wombat_controller *wombat = containerof  
(ptr_to_user_beancounter, struct wombat_controller, counter);
```

The containerof(PTR, TYPE, MEMBER) returns a pointer to the parent object of type "TYPE" whose member "MEMBER" has address "PTR".

Cheers,
Kyle Moffett
