
Subject: Re: [RFC][PATCH 4/7] RSS accounting hooks over the code
Posted by [Dave Hansen](#) on Mon, 12 Mar 2007 17:33:16 GMT
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On Mon, 2007-03-12 at 20:07 +0300, Kirill Korotaev wrote:
> > On Mon, 2007-03-12 at 19:23 +0300, Kirill Korotaev wrote:
> >> For these you essentially need per-container page->_mapcount counter,
> >> otherwise you can't detect whether rss group still has the page in question being mapped
> >> in its processes' address spaces or not.
> >
> > What do you mean by this? You can always tell whether a process has a
> > particular page mapped. Could you explain the issue a bit more. I'm
> > not sure I get it.
> When we do charge/uncharge we have to answer on another question:
> "whether *any* task from the *container* has this page mapped", not the
> "whether *this* task has this page mapped".

That's a bit more clear. ;)

OK, just so I make sure I'm getting your argument here. It would be too expensive to go looking through all of the rmap data for `_any_` other task that might be sharing the charge (in the same container) with the current task that is doing the unmapping.

The requirements you're presenting so far appear to be:

1. The first user of a page in a container must be charged
2. The second user of a page in a container must not be charged
3. A container using a page must take a diminished charge when another container is already using the page.
4. Additional fields in data structures (including 'struct page') are permitted

What have I missed? What are your requirements for performance?

I'm not quite sure how the page->container stuff fits in here, though. page->container would appear to be strictly assigning one page to one container, but I know that beancounters can do partial page charges. Care to fill me in?

-- Dave

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