Subject: Re: [PATCH 2/8] Add container pointer on struct page
Posted by xemul on Fri, 13 Apr 2007 14:48:00 GMT
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Jean-Pierre Dion wrote:
> Hi Pavel,
>
> I have been implied in the work for the
> memory controller of res groups a few months ago.
>
> I see that you propose to modify the struct
> page to point to rss container struct.
> This has made some debate because of the struct
> page size increase, but this allows a quicker
> scan to reclaim pages (I mean having per-container
> lists of active/inactive pages).
> We (here at Bull and others) proposed this implementation
> for res groups and I am interested in knowing
> if this has a chance of being accepted today (hope so).

So do I :) I'm not the one who makes the final decision ;)

> I know this uses memory for internal management
> and increases a lot the memory size used for
> a large memory configuration, but in that case
> we have lot of memory, so where is the issue ?
> We tested this on a 28 GB server and it worked.

Thank you for additional testing on enterprise servers!
Hope this will be a good argument in favour of the patches.

> Also we can use larger page size to reduce
> the overhead, and I believe this makes sense
> on large servers with big memory.
>
> So we balance between using more memory internally
> and so getting faster access to pages for reclaim,
> or do nothing. ;-)

That's right. I made some small testing which showed
that moving this pointer in a mirrored array saves less
than 0.1% of performance on 4CPU i386 node. I don't know
how this will be on enterprise hardware, but I do believe
that the results will be the same (or even better).

>
> jean-pierre
>

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> -
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