
Subject: Re: [RFC] mm-controller

Posted by [Vaidyanathan Srinivas](#) on Fri, 22 Jun 2007 16:35:19 GMT

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Peter Zijlstra wrote:

> On Thu, 2007-06-21 at 16:33 +0530, Balbir Singh wrote:

>> Peter Zijlstra wrote:

[snip]

> Not quite sure on 2, from reading the pagecache controller, I got the
> impression that enforcing both limits got you into trouble. Merging the
> limits would rid us of that issue, no?
>

Hi Peter,

Setting both limits in pagecache controller (v4) will work correct in principle. What I intended in the comment is performance issues and wrong type of page being reclaimed. We are working on the issues and will fix them in future versions. You can set any combination of limits and the reclaim will work to keep the page utilization below limits.

When RSS limit is hit, ANON pages are pushed to swapcache. We would need to limit swapcache (using pagecache_limit) to force a write out to disk.

Merging both limits will eliminate the issue, however we would need individual limits for pagecache and RSS for better control. There are use cases for pagecache_limit alone without RSS_limit like the case of database application using direct IO, backup applications and streaming applications that does not make good use of pagecache.

Thank you for the review and new design proposal.

--Vaidy

[snip]
