
Subject: Re: [RFC][PATCH] another swap controller for cgroup
Posted by [Daisuke Nishimura](#) on Tue, 25 Mar 2008 12:35:44 GMT
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YAMAMOTO Takashi wrote:

>> YAMAMOTO Takashi wrote:

>>> hi,

>>>>

>>>>> Daisuke Nishimura wrote:

>>>>>> Hi, Yamamoto-san.

>>>>>>

>>>>>> I'm reviewing and testing your patch now.

>>>>>>

>>>>> In building kernel infinitely(in a cgroup of

>>>>> memory.limit=64M and swap.limit=128M, with swappiness=100),

>>>>> almost all of the swap (1GB) is consumed as swap cache

>>>>> after a day or so.

>>>>> As a result, processes are occasionally OOM-killed even when

>>>>> the swap.usage of the group doesn't exceed the limit.

>>>>>

>>>>> I don't know why the swap cache uses up swap space.

>>>>> I will test whether a similar issue happens without your patch.

>>>>> Do you have any thoughts?

>>> my patch tends to yield more swap cache because it makes try_to_unmap

>>> fail and shrink_page_list leaves swap cache in that case.

>>> i'm not sure how it causes 1GB swap cache, tho.

>>>

>> Agree.

>>

>> I suspected that the cause of this problem was the behavior

>> of shrink_page_list as you said, so I thought one of Rik's

>> split-lru patchset:

>>

>> <http://lkml.org/lkml/2008/3/4/492>

>> [patch 04/20] free swap space on swap-in/activation

>>

>> would reduce the usage of swap cache to half of the total swap.

>> But it didn't help, so I think there may be some other causes.

>

> do you mean you tested with the patch in the url?

> i don't think remove_exclusive_swap_page works for us

> because our page has more references than it expects.

> ie. ptes, cache, isolate_page

>

umm... you are right.

I missed the fact that isolate_page increases page count.

Thanks,
Daisuke Nishimura.

Containers mailing list
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<https://lists.linux-foundation.org/mailman/listinfo/containers>
