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Subject: Re: [RFC][PATCH] another swap controller for cgroup

Posted by [yamamoto](#) on Tue, 25 Mar 2008 08:57:23 GMT

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> 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

(unless your tree has another change for remove\_exclusive\_swap\_page.

i haven't checked other patches in the patchset.)

YAMAMOTO Takashi

>  
>  
> Thanks,  
> Daisuke Nishimura.

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Containers mailing list  
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