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Subject: Re: [PATCH -mm 5/5] swapcgroup (v3): implement force\_empty  
Posted by [Daisuke Nishimura](#) on Fri, 04 Jul 2008 07:56:05 GMT  
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On Fri, 4 Jul 2008 16:48:28 +0900 (JST), yamamoto@valinux.co.jp (YAMAMOTO Takashi) wrote:

> > Hi, Yamamoto-san.

> >

> > Thank you for your comment.

> >

> > On Fri, 4 Jul 2008 15:54:31 +0900 (JST), yamamoto@valinux.co.jp (YAMAMOTO Takashi) wrote:

> > > hi,

> > >

> > > > +/\*

> > > > + \* uncharge all the entries that are charged to the group.

> > > > + \*/

> > > > +void \_\_swap\_cgroup\_force\_empty(struct mem\_cgroup \*mem)

> > > > +{

> > > > + struct swap\_info\_struct \*p;

> > > > + int type;

> > > > +

> > > > + spin\_lock(&swap\_lock);

> > > > + for (type = swap\_list.head; type >= 0; type = swap\_info[type].next) {

> > > > + p = swap\_info + type;

> > > > +

> > > > + if ((p->flags & SWP\_ACTIVE) == SWP\_ACTIVE) {

> > > > + unsigned int i = 0;

> > > > +

> > > > + spin\_unlock(&swap\_lock);

> > >

> > > what prevents the device from being swapoff'ed while you drop swap\_lock?

> > >

> > Nothing.

> >

> > After searching the entry to be uncharged(find\_next\_to\_unuse below),

> > I recheck under swap\_lock whether the entry is charged to the group.

> > Even if the device is swapoff'ed, swap\_off must have uncharged the entry,

> > so I don't think it's needed anyway.

> >

> > > YAMAMOTO Takashi

> > >

> > > > + while ((i = find\_next\_to\_unuse(p, i, mem)) != 0) {

> > > > + spin\_lock(&swap\_lock);

> > > > + if (p->swap\_map[i] && p->memcg[i] == mem)

> > Ah, I think it should be added !p->swap\_map to check the device has not

> > been swapoff'ed.

>

> find\_next\_to\_unuse seems to have fragile assumptions and  
> can dereference p->swap\_map as well.  
>  
You're right.  
Thank you for pointing it out!

I'll consider more.

Thanks,  
Daisuke Nishimura.

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

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