Subject: Re: [PATCH -mm 5/5] swapcgroup (v3): implement force_empty Posted by vamamoto on Fri, 04 Jul 2008 07:48:28 GMT

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> 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
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can dereference p->swap map as well.

YAMAMOTO Takashi

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> 
> 
> Thanks,
> Daisuke Nishimura.
> 
> > + swap_cgroup_uncharge(p, i);
> > + spin_unlock(&swap_lock);
> > + }
> > + spin_lock(&swap_lock);
> > + }
> > + spin_unlock(&swap_lock);
> > + }
> > + spin_unlock(&swap_lock);
> > + }
> > + spin_unlock(&swap_lock);
> > + 
> > + spin_unlock(&swap_lock);
> > + 
> > + return;
> > > + 
> > #endif
```

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