Subject: Re: [RFC/PATCH] cgroup swap subsystem
Posted by Hirokazu Takahashi on Wed, 05 Mar 2008 21:51:53 GMT
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Hi,

> > #ifdef CONFIG_CGROUP_MEM_CONT
> > +/*
> > + * A page_cgroup page is associated with every page descriptor. The
> > + * page_cgroup helps us identify information about the cgroup
> > + */
> > +struct page_cgroup {
> > + struct list_head lru; /* per cgroup LRU list */
> > + struct page *page;
> > + struct mem_cgroup *mem_cgroup;
> > +#ifdef CONFIG_CGROUP_SWAP_LIMIT
> > + struct mm_struct *pc_mm;
> > +#endif
> > + atomic_t ref_cnt; /* Helpful when pages move b/w */
> > + /* mapped and cached states */
> > + int flags;
> > +};
> >
> As first impression, I don't like to increase size of this...but have no alternative
> idea.

If you really want to make the swap space subsystem and the memory subsystem
work independently each other, you can possibly introduce a new data
structure that binds pages in the swapcache and swap_cgroup.
It would be enough since only a small part of the pages are in the swapcache.

Thanks,
Hirokazu Takahashi.