```
Subject: Re: [PATCH 2/4] Block I/O tracking
Posted by Hirokazu Takahashi on Tue, 18 Mar 2008 11:34:22 GMT
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Hi,
> > Hi,
> >
> > This patch implements the bio cgroup on the memory cgroup.
> >
> Signed-off-by: Hirokazu Takahashi <taka@valinux.co.jp>
> >
> >
>> --- linux-2.6.25-rc5.pagecgroup2/include/linux/memcontrol.h 2008-03-18 12:45:14.000000000
+0900
>>+++ linux-2.6.25-rc5-mm1/include/linux/memcontrol.h 2008-03-18 12:55:59.000000000 +0900
>> @ @ -54,6 +54,10 @ @ struct page cgroup {
>> struct list_head Iru; /* per cgroup LRU list */
>> struct mem cgroup *mem cgroup;
>> #endif /* CONFIG CGROUP MEM RES CTLR */
> > +#ifdef CONFIG CGROUP BIO
>> + struct list head blist; /* for bio cgroup page list */
> + struct bio_cgroup *bio_cgroup;
> > +#endif
>
> Hmm, definition like this
> ==
> enum {
> #ifdef CONFIG CGROUP MEM RES CTLR
> MEM_RES_CTLR,
> #endif
> #ifdef CONFIG_CGROURP_BIO
> BIO CTLR,
> #endif
> NR_VM_CTRL,
> };
>
> void *cgroups[NR VM CGROUP];
> ==
> Can save another #ifdefs ?
```

I guess the following code can be possible if you really want to remove the #ifdefs here. But the both of them look overkill.

#ifdef CONFIG_CGROUP_MEM_RES_CTLR
#define MEM_CONTROL \
 struct list_head lru; \
 struct mem_cgroup *mem_cgroup \

#else #define MEM CONTROL #endif #define BIO_CONTROL \ struct list_head blist; \ struct bio_cgroup *bio_cgroup \ #else #define BIO CONTROL #endif struct page_cgroup { MEM_CONTROL; **BIO_CONTROL**; struct page *page; int ref_cnt; int flags; };

> And, blist seems to be just used for force_empty.

> Do you really need this ? no alternative ?

I selected this approach because it was the simplest way for the first implementation.

I've been also thinking about what you pointed.

If you don't mind taking a long time to remove a bio cgroup, it will be the easiest way that you can scan all pages to find the pages which belong to the cgroup and delete them. It may be enough since you may say it will rarely happen. But it might cause some trouble on machines with huge memory.

So I'm actually looking for anther way if we could release them lazily. But I don't think I have to hurry to work on this issue now.

> Thanks,

> -Kame

Thank you, Hirokazu Takahashi.

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