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Subject: Re: [RFC 2/4] memcg: high-low watermark  
Posted by [KAMEZAWA Hiroyuki](#) on Tue, 27 May 2008 09:42:15 GMT  
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On Tue, 27 May 2008 15:51:40 +0800

Li Zefan <lizf@cn.fujitsu.com> wrote:

```
> KAMEZAWA Hiroyuki wrote:  
> > Add high/low watermarks to res_counter.  
> > *This patch itself has no behavior changes to memory resource controller.  
> >  
> > Changelog: very old one -> this one (v1)  
> > - watarmark_state is removed and all state check is done under lock.  
> > - changed res_counter_charge() interface. The only user is memory  
> >   resource controller. Anyway, returning -ENOMEM here is a bit starnge.  
> > - Added watermark enable/disable flag for someone don't want watermarks.  
> > - Restarted against 2.6.25-mm1.  
> > - some subsystem which doesn't want high-low watermark can work without it.  
> >  
> > Signed-off-by: KAMEZAWA Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com>  
> > From: YAMAMOTO Takashi <yamamoto@valinux.co.jp>  
> >  
> > ---  
> > include/linux/res_counter.h | 41 ++++++-----  
> > kernel/res_counter.c      | 66 ++++++-----  
> > mm/memcontrol.c          |  2 -  
> > 3 files changed, 99 insertions(+), 10 deletions(-)  
> >  
> > Index: mm-2.6.26-rc2-mm1/include/linux/res_counter.h  
> > ======  
> > --- mm-2.6.26-rc2-mm1.orig/include/linux/res_counter.h  
> > +++ mm-2.6.26-rc2-mm1/include/linux/res_counter.h  
> > @@ -16,6 +16,16 @@  
> > #include <linux/cgroup.h>  
> >  
> > /*  
> > + * status of resource coutner's usage.  
> > + */  
> > +enum res_state {  
> > + RES_BELOW_LOW, /* usage < lwmark */  
>  
> It seems it's 'usage <= lwmark'  
>  
> > + RES_BELOW_HIGH, /* lwmark < usage < hwmark */  
>  
> and 'lwmark < usage <= hwmark'  
>  
> > + RES_BELOW_LIMIT, /* hwmark < usage < limit. */
```

>  
> and 'hwmark < usage <= limit'  
>

Thank you. I'll fix.

-Kame

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