
Subject: Re: [RFC 2/4] memcg: high-low watermark
Posted by [Li Zefan](#) on Tue, 27 May 2008 07:51:40 GMT
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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)  
> - watermark_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 strange.  
> - 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 counter'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'

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