
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 < lwmrk */
```

It seems it's 'usage <= lwmrk'

```
> + RES_BELOW_HIGH, /* lwmrk < usage < hwmrk */
```

and 'lwmrk < usage <= hwmrk'

```
> + RES_BELOW_LIMIT, /* hwmrk < usage < limit. */
```

and 'hwmrk < usage <= limit'

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