
Subject: Re: [PATCH][RFC] dirty balancing for cgroups
Posted by [Peter Zijlstra](#) on Mon, 14 Jul 2008 13:37:17 GMT
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On Wed, 2008-07-09 at 15:00 +0900, YAMAMOTO Takashi wrote:

> hi,
>
> the following patch is a simple implementation of
> dirty balancing for cgroups. any comments?
>
> it depends on the following fix:
> <http://lkml.org/lkml/2008/7/8/428>
>
> YAMAMOTO Takashi
>
>
> Signed-off-by: YAMAMOTO Takashi <yamamoto@valinux.co.jp>
> ---

Yamamoto-san,

```
> @@ -408,7 +412,11 @@ get_dirty_limits(long *pbackground, long *pdirty, long *pbdi_dirty,  
>  
> *pbdi_dirty = bdi_dirty;  
> clip_bdi_dirty_limit(bdi, dirty, pbdi_dirty);  
> - task_dirty_limit(current, pbdi_dirty);  
> + task_dirty = *pbdi_dirty;  
> + task_dirty_limit(current, &task_dirty);  
> + cgroup_dirty = *pbdi_dirty;  
> + memdirtylimitcgroup_dirty_limit(current, &cgroup_dirty);  
> + *pbdi_dirty = min(task_dirty, cgroup_dirty);  
> }  
> }
```

I think this is wrong - is basically breaks task dirty throttling within groups. You'd need a multiplicative operation, something like:

$$\text{bdi_dirty} = \text{dirty} * p(\text{bdi}) * p(\text{cgroup}) * (1 - p(\text{task}))$$

However then we still have problems... see the next email further down the thread.

Containers mailing list
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