Subject: Re: [PATCH v4 11/11] memcg: check memcg dirty limits in page writeback Posted by Wu Fengguang on Sun, 31 Oct 2010 20:03:41 GMT

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```
On Sat, Oct 30, 2010 at 12:06:33AM +0800, Greg Thelen wrote:
> KAMEZAWA Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com> writes:
>
> > On Fri, 29 Oct 2010 00:09:14 -0700
> > Greg Thelen < gthelen@google.com > wrote:
> >
> >> If the current process is in a non-root memcg, then
>>> balance dirty pages() will consider the memcg dirty limits
>>> as well as the system-wide limits. This allows different
>>> cgroups to have distinct dirty limits which trigger direct
>>> and background writeback at different levels.
> >>
> >> Signed-off-by: Andrea Righi <arighi@develer.com>
> >> Signed-off-by: Greg Thelen <gthelen@google.com>
> > Acked-by: KAMEZAWA Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com>
```

The "check both memcg&global dirty limit" looks much more sane than the V3 implementation. Although it still has misbehaviors in some cases, it's generally a good new feature to have.

Acked-by: Wu Fengguang <fengguang.wu@intel.com>

- >> Ideally, I think some comments in the code for "why we need double-check system's > > dirty limit and memcg's dirty limit" will be appreciated. > I will add to the balance dirty pages() comment. It will read: > /* > * balance_dirty_pages() must be called by processes which are generating dirty > * data. It looks at the number of dirty pages in the machine and will force
- > * the caller to perform writeback if the system is over `vm_dirty_ratio'.

To be exact, it tries to throttle the dirty speed so that vm_dirty_ratio is not exceeded. In fact balance_dirty_pages() starts throttling the dirtier slightly below vm dirty ratio.

- > * If we're over `background_thresh' then the writeback threads are woken to
- > * perform some writeout. The current task may have per-memcg dirty
- > * limits, which are also checked.

> */

Containers mailing list

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