Subject: Re: [PATCH v5 04/14] kmem accounting basic infrastructure Posted by akpm on Wed, 17 Oct 2012 22:12:07 GMT

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On Tue, 16 Oct 2012 14:16:41 +0400 Glauber Costa <glommer@parallels.com> wrote:

- > This patch adds the basic infrastructure for the accounting of kernel
- > memory. To control that, the following files are created:
- > * memory.kmem.usage_in_bytes
- > * memory.kmem.limit in bytes
- > * memory.kmem.failcnt

>

gargh. "failcnt" is not a word. Who was it who first thought that omitting voewls from words improves anything?

Sigh. That pooch is already screwed and there's nothing we can do about it now.

- > * memory.kmem.max_usage_in_bytes
- > They have the same meaning of their user memory counterparts. They
- > reflect the state of the "kmem" res_counter.
- > Per cgroup kmem memory accounting is not enabled until a limit is set
- > for the group. Once the limit is set the accounting cannot be disabled
- > for that group. This means that after the patch is applied, no
- > behavioral changes exists for whoever is still using memcg to control
- > their memory usage, until memory.kmem.limit_in_bytes is set for the
- > first time.

>

>

- > We always account to both user and kernel resource_counters. This
- > effectively means that an independent kernel limit is in place when the
- > limit is set to a lower value than the user memory. A equal or higher
- > value means that the user limit will always hit first, meaning that kmem
- > is effectively unlimited.
- > People who want to track kernel memory but not limit it, can set this
- > limit to a very high number (like RESOURCE MAX 1page that no one
- > will ever hit, or equal to the user memory)
- > > ...

>

- > ...
- > +/* internal only representation about the status of kmem accounting. */ > +enum {
- > + KMEM_ACCOUNTED_ACTIVE = 0, /* accounted by this cgroup itself */

```
> +};
> +
> +#define KMEM_ACCOUNTED_MASK (1 << KMEM_ACCOUNTED_ACTIVE)
> +
> +#ifdef CONFIG_MEMCG_KMEM
> +static void memcg_kmem_set_active(struct mem_cgroup *memcg)
> +{
> + set_bit(KMEM_ACCOUNTED_ACTIVE, &memcg->kmem_accounted);
> +}
> +#endif
I don't think memcg_kmem_set_active() really needs to exist. It has a
```

I don't think memcg_kmem_set_active() really needs to exist. It has a single caller and is unlikely to get any additional callers, so just open-code it there?