
Subject: Re: [-mm PATCH 6/9] Memory controller add per container LRU and reclaim (v4)

Posted by [Dhaval Giani](#) on Mon, 30 Jul 2007 13:37:58 GMT

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Hi Balbir,

```
> diff -puN mm/memcontrol.c~mem-control-lru-and-reclaim mm/memcontrol.c
> --- linux-2.6.23-rc1-mm1/mm/memcontrol.c~mem-control-lru-and-reclaim 2007-07-28
01:12:50.000000000 +0530
> +++ linux-2.6.23-rc1-mm1-balbir/mm/memcontrol.c 2007-07-28 01:12:50.000000000 +0530
```

```
> /*
>  * The memory controller data structure. The memory controller controls both
> @@ -51,6 +54,10 @@ struct mem_container {
>  */
> struct list_head active_list;
> struct list_head inactive_list;
> + /*
> +  * spin_lock to protect the per container LRU
> +  */
> + spinlock_t lru_lock;
> };
```

The spinlock is not annotated by lockdep. The following patch should do it.

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Signed-off-by: Gautham Shenoy R <ego@in.ibm.com>

Index: linux-2.6.23-rc1/mm/memcontrol.c

```
=====
--- linux-2.6.23-rc1.orig/mm/memcontrol.c 2007-07-30 17:27:24.000000000 +0530
+++ linux-2.6.23-rc1/mm/memcontrol.c 2007-07-30 18:43:40.000000000 +0530
@@ -501,6 +501,9 @@
```

```
static struct mem_container init_mem_container;

+/* lockdep should know about lru_lock */
+static struct lock_class_key lru_lock_key;
+
static struct container_subsys_state *
mem_container_create(struct container_subsys *ss, struct container *cont)
{
@@ -519,6 +522,7 @@
INIT_LIST_HEAD(&mem->active_list);
INIT_LIST_HEAD(&mem->inactive_list);
```

```
    spin_lock_init(&mem->lru_lock);  
+ lockdep_set_class(&mem->lru_lock, &lru_lock_key);  
    mem->control_type = MEM_CONTAINER_TYPE_ALL;  
    return &mem->css;  
}
```

--

regards,
Dhaval

I would like to change the world but they don't give me the source code!

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
