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

Posted by [Gautham R Shenoy](#) on Mon, 30 Jul 2007 14:28:18 GMT

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On Mon, Jul 30, 2007 at 07:07:58PM +0530, Dhaval Giani wrote:

> 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.

>

> Signed-off-by: Dhaval Giani <dhaval@linux.vnet.ibm.com>

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

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Gautham R Shenoy

>

>

> 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!
```

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Gautham R Shenoy  
Linux Technology Center  
IBM India.

"Freedom comes with a price tag of responsibility, which is still a bargain,  
because Freedom is priceless!"

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

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