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Subject: [PATCH] cgroup: use read lock to guard find\_existing\_css\_set()

Posted by [Li Zefan](#) on Wed, 23 Apr 2008 03:04:36 GMT

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The function does not modify anything (except the temporary css template), so it's sufficient to hold read lock.

Signed-off-by: Li Zefan <lizf@cn.fujitsu.com>

---

kernel/cgroup.c | 4 +--

1 files changed, 2 insertions(+), 2 deletions(-)

diff --git a/kernel/cgroup.c b/kernel/cgroup.c

index 2727f92..e9eb5da 100644

--- a/kernel/cgroup.c

+++ b/kernel/cgroup.c

@@ -406,11 +406,11 @@ static struct css\_set \*find\_css\_set(

/\* First see if we already have a cgroup group that matches  
\* the desired set \*/

- write\_lock(&css\_set\_lock);

+ read\_lock(&css\_set\_lock);

res = find\_existing\_css\_set(oldcgrp, cgrp, template);

if (res)

get\_css\_set(res);

- write\_unlock(&css\_set\_lock);

+ read\_unlock(&css\_set\_lock);

if (res)

return res;

-- 1.5.4.rc3

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Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

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Subject: Re: [PATCH] cgroup: use read lock to guard find\_existing\_css\_set()

Posted by [Paul Menage](#) on Wed, 23 Apr 2008 06:48:28 GMT

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On Tue, Apr 22, 2008 at 8:04 PM, Li Zefan <lizf@cn.fujitsu.com> wrote:

> The function does not modify anything (except the temporary

> css template), so it's sufficient to hold read lock.

>

> Signed-off-by: Li Zefan <lizf@cn.fujitsu.com>

Acked-by: Paul Menage <menage@google.com>

Thanks.

```
> ---
> kernel/cgroup.c | 4 +---
> 1 files changed, 2 insertions(+), 2 deletions(-)
>
> diff --git a/kernel/cgroup.c b/kernel/cgroup.c
> index 2727f92..e9eb5da 100644
> --- a/kernel/cgroup.c
> +++ b/kernel/cgroup.c
> @@ -406,11 +406,11 @@ static struct css_set *find_css_set(
>
>     /* First see if we already have a cgroup group that matches
>      * the desired set */
> -    write_lock(&css_set_lock);
> +    read_lock(&css_set_lock);
>     res = find_existing_css_set(oldcgrp, cgrp, template);
>     if (res)
>         get_css_set(res);
> -    write_unlock(&css_set_lock);
> +    read_unlock(&css_set_lock);
>
>     if (res)
>         return res;
> -- 1.5.4.rc3
>
>
```

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Subject: Re: [PATCH] cgroup: use read lock to guard find\_existing\_css\_set()

Posted by [Balbir Singh](#) on Wed, 23 Apr 2008 06:48:50 GMT

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Li Zefan wrote:

> The function does not modify anything (except the temporary  
> css template), so it's sufficient to hold read lock.

>

> Signed-off-by: Li Zefan <lizf@cn.fujitsu.com>

> ---

> kernel/cgroup.c | 4 +---

> 1 files changed, 2 insertions(+), 2 deletions(-)

>

```

> diff --git a/kernel/cgroup.c b/kernel/cgroup.c
> index 2727f92..e9eb5da 100644
> --- a/kernel/cgroup.c
> +++ b/kernel/cgroup.c
> @@ -406,11 +406,11 @@ static struct css_set *find_css_set(
>
> /* First see if we already have a cgroup group that matches
>  * the desired set */
> - write_lock(&css_set_lock);
> + read_lock(&css_set_lock);
> res = find_existing_css_set(oldcg, cgrp, template);
> if (res)
>     get_css_set(res);
> - write_unlock(&css_set_lock);
> + read_unlock(&css_set_lock);
>
> if (res)
>     return res;

```

Looks good to me. Did you run lockdep?

--

Warm Regards,  
 Balbir Singh  
 Linux Technology Center  
 IBM, ISTL

---

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

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Subject: Re: [PATCH] cgroup: use read lock to guard find\_existing\_css\_set()  
 Posted by [Li Zefan](#) on Thu, 24 Apr 2008 01:00:52 GMT  
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Balbir Singh wrote:

```

> Li Zefan wrote:
>> The function does not modify anything (except the temporary
>> css template), so it's sufficient to hold read lock.
>>
>> Signed-off-by: Li Zefan <lizf@cn.fujitsu.com>
>> ---
>> kernel/cgroup.c | 4 ++--
>> 1 files changed, 2 insertions(+), 2 deletions(-)
>>

```

```
>> diff --git a/kernel/cgroup.c b/kernel/cgroup.c
>> index 2727f92..e9eb5da 100644
>> --- a/kernel/cgroup.c
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>>
>> /* First see if we already have a cgroup group that matches
>>  * the desired set */
>> - write_lock(&css_set_lock);
>> + read_lock(&css_set_lock);
>> res = find_existing_css_set(oldcgrp, cgrp, template);
>> if (res)
>>     get_css_set(res);
>> - write_unlock(&css_set_lock);
>> + read_unlock(&css_set_lock);
>>
>> if (res)
>>     return res;
>
> Looks good to me. Did you run lockdep?
>
```

No, I found this when reading the code, but I do have done some test.

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