
Subject: Re: [RFC][only for review] memory controller bacground reclaim [1/5]
spinlock fix in res_counter.m

Posted by Pavel Emelianov on Wed, 28 Nov 2007 11:08:31 GMT

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KAMEZAWA Hiroyuki wrote:

```
> spinlock is necessary when someone changes res_counter value.  
> splited out from YAMAMOTO's background page reclaim for memory cgroup set.  
>  
> Signed-off-by: KAMEZAWA Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com>  
> From: YAMAMOTO Takashi <yamamoto@valinux.co.jp>  
>  
>  
> kernel/res_counter.c | 5 +---  
> 1 file changed, 3 insertions(+), 2 deletions(-)  
>  
> Index: linux-2.6.24-rc3-mm1/kernel/res_counter.c  
> ======  
> --- linux-2.6.24-rc3-mm1.orig/kernel/res_counter.c 2007-11-27 14:07:44.000000000 +0900  
> +++ linux-2.6.24-rc3-mm1/kernel/res_counter.c 2007-11-27 14:09:40.000000000 +0900  
> @@ -98,7 +98,7 @@  
> {  
>     int ret;  
>     char *buf, *end;  
> -    unsigned long long tmp, *val;  
> +    unsigned long long flags, tmp, *val;
```

Flags for irqsavve should be unsigned long. No?

```
>     buf = kmalloc(nbytes + 1, GFP_KERNEL);  
>     ret = -ENOMEM;  
> @@ -121,9 +121,10 @@  
>     if (*end != '\0')  
>         goto out_free;  
>     }  
> -  
> + spin_lock_irqsave(&counter->lock, flags);  
>     val = res_counter_member(counter, member);  
>     *val = tmp;  
> + spin_unlock_irqrestore(&counter->lock, flags);  
>     ret = nbytes;  
>     out_free:  
>     kfree(buf);  
>  
>
```

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