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

Posted by [KAMEZAWA Hiroyuki](#) on Wed, 28 Nov 2007 08:51:35 GMT

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spinlock is necessary when someone changes res_counter value.

splited out from YAMAMOTO's background page reclaim for memory cgroup set.

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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;

    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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