
Subject: Re: [RFC/PATCH] cgroup swap subsystem
Posted by [KAMEZAWA Hiroyuki](#) on Wed, 05 Mar 2008 07:01:54 GMT
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On Wed, 05 Mar 2008 14:59:05 +0900
Daisuke Nishimura <nishimura@mxp.nes.nec.co.jp> wrote:

```
> +int swap_cgroup_charge(struct page *page,  
> + struct swap_info_struct *si,  
> + unsigned long offset)  
> +{  
> + int ret;  
> + struct page_cgroup *pc;  
> + struct mm_struct *mm;  
> + struct swap_cgroup *swap;  
> +  
> + BUG_ON(!page);  
> +  
> + /*  
> + * Pages to be swapped out should have been charged by memory cgroup,  
> + * but very rarely, pc would be NULL (pc is not reliable without lock,  
> + * so I should fix here).  
> + * In such cases, we charge the init_mm now.  
> + */  
> + pc = page_get_page_cgroup(page);  
> + if (WARN_ON(!pc))  
> + mm = &init_mm;  
> + else  
> + mm = pc->pc_mm;  
> + BUG_ON(!mm);  
> +  
> + rcu_read_lock();  
> + swap = rcu_dereference(mm->swap_cgroup);  
> + rcu_read_unlock();  
> + BUG_ON(!swap);  
> +  
> + ret = res_counter_charge(&swap->res, PAGE_SIZE);  
> + if (!ret) {  
> + css_get(&swap->css);  
> + si->swap_cgroup[offset] = swap;  
> + }  
> +
```

I think it's better to reclaim swap_entry used for SwapCache but not in Harddisk before failure.

Thanks,
-Kame

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