
Subject: [PATCH] memory cgroup enhancements [3/5] record pc is on active list
Posted by [KAMEZAWA Hiroyuki](#) on Tue, 16 Oct 2007 10:26:13 GMT
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Remember page_cgroup is on active_list or not in page_cgroup->flags.

Against 2.6.23-mm1.

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mm/memcontrol.c | 12 ++++++----
1 file changed, 8 insertions(+), 4 deletions(-)

Index: devel-2.6.23-mm1/mm/memcontrol.c

```
=====
--- devel-2.6.23-mm1.orig/mm/memcontrol.c
+++ devel-2.6.23-mm1/mm/memcontrol.c
@@ -85,6 +85,7 @@ struct page_cgroup {
     /* mapped and cached states */
     int flags;
#define PCGF_PAGECACHE (0x1) /* charged as page-cache */
+#define PCGF_ACTIVE (0x2) /* this is on cgroup's active list */
};

enum {
@@ -208,10 +209,13 @@ clear_page_cgroup(struct page *page, str

static void __mem_cgroup_move_lists(struct page_cgroup *pc, bool active)
{
- if (active)
+ if (active) {
+ pc->flags |= PCGF_ACTIVE;
list_move(&pc->lru, &pc->mem_cgroup->active_list);
- else
+ } else {
+ pc->flags &= ~PCGF_ACTIVE;
list_move(&pc->lru, &pc->mem_cgroup->inactive_list);
+ }
}

int task_in_mem_cgroup(struct task_struct *task, const struct mem_cgroup *mem)
@@ -421,9 +425,9 @@ noreclaim:
pc->mem_cgroup = mem;
pc->page = page;
if (is_cache)
- pc->flags = PCGF_PAGECACHE;
+ pc->flags = PCGF_PAGECACHE | PCGF_ACTIVE;
```

```
else
- pc->flags = 0;
+ pc->flags = PCGF_ACTIVE;
if (page_cgroup_assign_new_page_cgroup(page, pc)) {
/*
 * an another charge is added to this page already.
```

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