
Subject: [RFC][for -mm] memory cgroup enhancements take3 [4/9] remember active

Posted by [KAMEZAWA Hiroyuki](#) on Tue, 30 Oct 2007 11:17:36 GMT

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Remember page_cgroup is on active_list or not in page_cgroup->flags.

Against 2.6.23-mm1.

Changelov v2->v3

- renamed #define PCGF_ACTIVE to PAGE_CGROUP_FLAG_ACTIVE.

Changelog v1->v2

- moved #define to out-side of struct definition

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mm/memcontrol.c | 10 ++++++---
1 file changed, 7 insertions(+), 3 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

@@ -86,6 +86,7 @@ struct page_cgroup {
 int flags;

};

#define PAGE_CGROUP_FLAG_CACHE (0x1) /* charged as cache */

+#define PAGE_CGROUP_FLAG_ACTIVE (0x2) /* page is active in this cgroup */

enum {

MEM_CGROUP_TYPE_UNSPEC = 0,

@@ -213,10 +214,13 @@ 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 |= PAGE_CGROUP_FLAG_ACTIVE;

list_move(&pc->lru, &pc->mem_cgroup->active_list);

- else

+ } else {

+ pc->flags &= ~PAGE_CGROUP_FLAG_ACTIVE;

list_move(&pc->lru, &pc->mem_cgroup->inactive_list);

+ }

}

int task_in_mem_cgroup(struct task_struct *task, const struct mem_cgroup *mem)

```
@@ -425,7 +429,7 @@ noreclaim:
    atomic_set(&pc->ref_cnt, 1);
    pc->mem_cgroup = mem;
    pc->page = page;
- pc->flags = 0;
+ pc->flags = PAGE_CGROUP_FLAG_ACTIVE;
  if (ctype == MEM_CGROUP_CHARGE_TYPE_CACHE)
    pc->flags |= PAGE_CGROUP_FLAG_CACHE;
  if (page_cgroup_assign_new_page_cgroup(page, pc)) {
```

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