
Subject: [RFC][PATCH] memory cgroup enhancements updated [4/10] record page cgroup on active list

Posted by [KAMEZAWA Hiroyuki](#) on Fri, 19 Oct 2007 09:31:48 GMT

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

Against 2.6.23-mm1.

Changelog v1->v2

- moved #define to out-side of struct definition

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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

@@ -86,6 +86,7 @@ struct page_cgroup {

int flags;

};

#define PCGF_PAGECACHE (0x1) /* charged as page-cache */

+#define PCGF_ACTIVE (0x2) /* page_cgroup is on active list */

enum {

MEM_CGROUP_TYPE_UNSPEC = 0,

@@ -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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