
Subject: [RFC][for -mm] memory controller enhancements for NUMA [1/10] record
nid/zid on page_cgroup

Posted by [KAMEZAWA Hiroyuki](#) on Wed, 14 Nov 2007 08:41:31 GMT

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This patch adds nid/zoneid value to page cgroup.

This helps per-zone accounting for memory cgroup and reclaim routine.

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mm/memcontrol.c | 6 ++++++
1 file changed, 6 insertions(+)

Index: linux-2.6.24-rc2-mm1/mm/memcontrol.c

```
=====
--- linux-2.6.24-rc2-mm1.orig/mm/memcontrol.c
+++ linux-2.6.24-rc2-mm1/mm/memcontrol.c
@@ -131,6 +131,8 @@ struct page_cgroup {
    atomic_t ref_cnt; /* Helpful when pages move b/w */
    /* mapped and cached states */
    int flags;
+ short nid;
+ short zid;
};
#define PAGE_CGROUP_FLAG_CACHE (0x1) /* charged as cache */
#define PAGE_CGROUP_FLAG_ACTIVE (0x2) /* page is active in this cgroup */
@@ -216,6 +218,10 @@ void page_assign_page_cgroup(struct page
    VM_BUG_ON(!page_cgroup_locked(page));
    locked = (page->page_cgroup & PAGE_CGROUP_LOCK);
    page->page_cgroup = ((unsigned long)pc | locked);
+ if (pc) {
+ pc->nid = page_to_nid(page);
+ pc->zid = page_zonenum(page);
+ }
}

struct page_cgroup *page_get_page_cgroup(struct page *page)
```

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