

---

Subject: [RFC][-mm] [2/2] Simple stats for memory resource controller

Posted by [Balaji Rao](#) on Wed, 26 Mar 2008 18:18:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

This patch implements trivial statistics for the memory resource controller.

Signed-off-by: Balaji Rao <[balajirao@gmail.com](mailto:balajirao@gmail.com)>

CC: Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)>

CC: Dhaval Giani <[dhaval@linux.vnet.ibm.com](mailto:dhaval@linux.vnet.ibm.com)>

```
diff --git a/mm/memcontrol.c b/mm/memcontrol.c
index eb681a6..84f3fe5 100644
--- a/mm/memcontrol.c
+++ b/mm/memcontrol.c
@@ -45,6 +45,8 @@ enum mem_cgroup_stat_index {
 */
 MEM_CGROUP_STAT_CACHE, /* # of pages charged as cache */
 MEM_CGROUP_STAT_RSS, /* # of pages charged as rss */
+ MEM_CGROUP_STAT_PGIN_COUNT, /* # of pages paged in */
+ MEM_CGROUP_STAT_PGOOUT_COUNT, /* # of pages paged out */

 MEM_CGROUP_STAT_NSTATS,
};
@@ -196,6 +198,13 @@ static void mem_cgroup_charge_statistics(struct mem_cgroup *mem,
int flags,
    __mem_cgroup_stat_add_safe(stat, MEM_CGROUP_STAT_CACHE, val);
    else
        __mem_cgroup_stat_add_safe(stat, MEM_CGROUP_STAT_RSS, val);
+
+ if (charge)
+     __mem_cgroup_stat_add_safe(stat,
+     MEM_CGROUP_STAT_PGIN_COUNT, 1);
+ else
+     __mem_cgroup_stat_add_safe(stat,
+     MEM_CGROUP_STAT_PGOOUT_COUNT, 1);
}

static struct mem_cgroup_per_zone *
@@ -886,6 +895,8 @@ static const struct mem_cgroup_stat_desc {
} mem_cgroup_stat_desc[] = {
[MEM_CGROUP_STAT_CACHE] = { "cache", PAGE_SIZE, },
[MEM_CGROUP_STAT_RSS] = { "rss", PAGE_SIZE, },
+ [MEM_CGROUP_STAT_PGIN_COUNT] = {"page_in_count", 1, },
+ [MEM_CGROUP_STAT_PGOOUT_COUNT] = {"page_out_count", 1, },
};

static int mem_control_stat_show(struct cgroup *cont, struct cftype *cft,
```

---

Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

---