
Subject: [RFC][PATCH] memory controller per zone patches take 2 [4/10] calculate mapped ratio for memory cgroup

Posted by KAMEZAWA Hiroyuki on Fri, 16 Nov 2007 10:17:43 GMT

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Define function for calculating mapped_ratio in memory cgroup.

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```
include/linux/memcontrol.h | 11 ++++++++  
mm/memcontrol.c          | 13 +++++++  
2 files changed, 23 insertions(+), 1 deletion(-)
```

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  
@@ -423,6 +423,19 @@ void mem_cgroup_move_lists(struct page_c  
    spin_unlock(&mem->lru_lock);  
}  
  
+/*  
+ * Calculate mapped_ratio under memory controller.  
+ */  
+int mem_cgroup_calc_mapped_ratio(struct mem_cgroup *mem)  
{  
+ s64 total, rss;  
+  
+ /* usage is recorded in bytes */  
+ total = mem->res.usage >> PAGE_SHIFT;  
+ rss = mem_cgroup_read_stat(&mem->stat, MEM_CGROUP_STAT_RSS);  
+ return (rss * 100) / total;  
+}  
+  
+unsigned long mem_cgroup_isolate_pages(unsigned long nr_to_scan,  
+    struct list_head *dst,  
+    unsigned long *scanned, int order,  
Index: linux-2.6.24-rc2-mm1/include/linux/memcontrol.h  
=====--- linux-2.6.24-rc2-mm1.orig/include/linux/memcontrol.h  
+++ linux-2.6.24-rc2-mm1/include/linux/memcontrol.h  
@@ -61,6 +61,12 @@ extern int mem_cgroup_prepare_migration(  
extern void mem_cgroup_end_migration(struct page *page);  
extern void mem_cgroup_page_migration(struct page *page, struct page *newpage);  
  
+/*  
+ * For memory reclaim.  
+ */
```

```
+extern int mem_cgroup_calc_mapped_ratio(struct mem_cgroup *mem);
+
+
#else /* CONFIG_CGROUP_MEM_CONT */
static inline void mm_init_cgroup(struct mm_struct *mm,
        struct task_struct *p)
@@ -132,7 +138,10 @@ mem_cgroup_page_migration(struct page *p
{
}

-
+static inline int mem_cgroup_calc_mapped_ratio(struct mem_cgroup *mem)
+{
+    return 0;
+}
#endif /* CONFIG_CGROUP_MEM_CONT */

#endif /* _LINUX_MEMCONTROL_H */
```

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Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
