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Subject: [RFC][PATCH] memory cgroup enhancements updated [6/10] memory.stat interface

Posted by [KAMEZAWA Hiroyuki](#) on Fri, 19 Oct 2007 09:33:08 GMT

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Show accounted information of memory cgroup by memory.stat file

Changelog v1->v2

- dropped Charge/Uncharge entry.

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mm/memcontrol.c | 52 +++  
1 file changed, 52 insertions(+)

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

@@ -28,6 +28,7 @@

#include <linux/swap.h>

#include <linux/spinlock.h>

#include <linux/fs.h>

+#include <linux/seq\_file.h>

#include <asm/uaccess.h>

@@ -841,6 +842,53 @@ static ssize\_t mem\_force\_empty\_read(stru  
{

+static const struct mem\_cgroup\_stat\_desc {

+ const char \*msg;

+ u64 unit;

+} mem\_cgroup\_stat\_desc[] = {

+ [MEM\_CGROUP\_STAT\_PAGECACHE] = { "page\_cache", PAGE\_SIZE, },

+ [MEM\_CGROUP\_STAT\_RSS] = { "rss", PAGE\_SIZE, },

+ [MEM\_CGROUP\_STAT\_ACTIVE] = { "active", PAGE\_SIZE, },

+ [MEM\_CGROUP\_STAT\_INACTIVE] = { "inactive", PAGE\_SIZE, },

+};

+

+static int mem\_control\_stat\_show(struct seq\_file \*m, void \*arg)

+{

+ struct cgroup \*cont = m->private;

+ struct mem\_cgroup \*mem\_cont = mem\_cgroup\_from\_cont(cont);

+ struct mem\_cgroup\_stat \*stat = &mem\_cont->stat;

+ int i;

```

+
+ for (i = 0; i < ARRAY_SIZE(stat->cpustat[0].count); i++) {
+   unsigned int cpu;
+   s64 val;
+
+   val = 0;
+   for (cpu = 0; cpu < NR_CPUS; cpu++)
+     val += stat->cpustat[cpu].count[i];
+   val *= mem_cgroup_stat_desc[i].unit;
+   seq_printf(m, "%s %lld\n", mem_cgroup_stat_desc[i].msg, val);
+ }
+ return 0;
+}
+
+static const struct file_operations mem_control_stat_file_operations = {
+ .read = seq_read,
+ .llseek = seq_lseek,
+ .release = single_release,
+};
+
+static int mem_control_stat_open(struct inode *unused, struct file *file)
+{
+ /* XXX __d_cont */
+ struct cgroup *cont = file->f_dentry->d_parent->d_fsdata;
+
+ file->f_op = &mem_control_stat_file_operations;
+ return single_open(file, mem_control_stat_show, cont);
+}
+
+
+
+static struct cftype mem_cgroup_files[] = {
+ {
+   .name = "usage_in_bytes",
+   @@ -868,6 +916,10 @@ static struct cftype mem_cgroup_files[]
+   .write = mem_force_empty_write,
+   .read = mem_force_empty_read,
+ },
+ {
+   .name = "stat",
+   .open = mem_control_stat_open,
+ },
+ };
+
+static struct mem_cgroup init_mem_cgroup;

```

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Containers mailing list

