Subject: [RFC][PATCH 3/7] CGroup API: Use cgroup map for memcontrol stats file
Posted by Paul Menage on Fri, 15 Feb 2008 20:44:21 GMT
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Remove the seq_file boilerplate used to construct the memcontrol stats
map, and instead use the new map representation for cgroup control
files

Signed-off-by: Paul Menage <menage@google.com>

---
 mm/memcontrol.c | 30 ++++++------------------------
 1 file changed, 6 insertions(+), 24 deletions(-)

Index: cgroupmap-2.6.24-mm1/mm/memcontrol.c
===
--- cgroupmap-2.6.24-mm1.orig/mm/memcontrol.c
+++ cgroupmap-2.6.24-mm1/mm/memcontrol.c
@@ -974,9 +974,9 @@ static const struct mem_cgroup_stat_desc
  [MEM_CGROUP_STAT_RSS] = { "rss", PAGE_SIZE, },
 };

-static int mem_control_stat_show(struct seq_file *m, void *arg)
+static int mem_control_stat_show(struct cgroup *cont, struct cftype *cft,
+   struct cgroup_map_cb *cb)
 {
- 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;
@@ -986,8 +986,7 @@ static int mem_control_stat_show(struct

   val = mem_cgroup_read_stat(stat, i);
   val *= mem_cgroup_stat_desc[i].unit;
- seq_printf(m, "%s %lld\n", mem_cgroup_stat_desc[i].msg,
-    (long long)val);
+ cb->fill(cb, mem_cgroup_stat_desc[i].msg, val);
  }
  /* showing # of active pages */
  {
@@ -997,29 +996,12 @@ static int mem_control_stat_show(struct
       MEM_CGROUP_ZSTAT_INACTIVE);
   active = mem_cgroup_get_all_zonestat(mem_cont,
       MEM_CGROUP_ZSTAT_ACTIVE);
- seq_printf(m, "active %ld\n", (active) * PAGE_SIZE);
- seq_printf(m, "inactive %ld\n", (inactive) * PAGE_SIZE);
+ cb->fill(cb, "active", (active) * PAGE_SIZE);
+ cb->fill(cb, "inactive", (inactive) * PAGE_SIZE);

```
  }
  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",
@@ -1044,7 +1026,7 @@ static struct cftype mem_cgroup_files[]
  },
  {
   .name = "stat",
-  .open = mem_control_stat_open,
+  .read_map = mem_control_stat_show,
  },
 };


--
```

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