Subject: [PATCH v5 7/8] Display current tcp memory allocation in kmem cgroup
Posted by Glauber Costa on Tue, 04 Oct 2011 12:17:59 GMT
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This patch introduces kmem.tcp_current_memory file, living in the
kmem_cgroup filesystem. It is a simple read-only file that displays the
amount of kernel memory currently consumed by the cgroup.

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 Documentation/cgroups/memory.txt | 1 +
 mm/memcontrol.c | 11 ++++++++++
 2 files changed, 12 insertions(+), 0 deletions(-)

diff --git a/Documentation/cgroups/memory.txt b/Documentation/cgroups/memory.txt
index c1db134..00f1a88 100644
--- a/Documentation/cgroups/memory.txt
+++ b/Documentation/cgroups/memory.txt
@@ -79,6 +79,7 @@ Brief summary of control files.
  memory.independent_kmem_limit # select whether or not kernel memory limits are
       independent of user limits
  memory.kmem.tcp.limit_in_bytes # set/show hard limit for tcp buf memory
+ memory.kmem.tcp.usage_in_bytes # show current tcp buf memory allocation

 1. History

diff --git a/mm/memcontrol.c b/mm/memcontrol.c
index 6fb14bb..f178a64 100644
--- a/mm/memcontrol.c
+++ b/mm/memcontrol.c
@@ -465,12 +465,23 @@ static u64 tcp_read_limit(struct cgroup *cgrp, struct cftype *cft)
  return memcg->tcp.tcp_max_memory << PAGE_SHIFT;
 }

+static u64 tcp_usage_in_bytes(struct cgroup *cgrp, struct cftype *cft)
+{
+ struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);
+
+ return atomic_long_read(&memcg->tcp.tcp_memory_allocated) << PAGE_SHIFT;
+}
+
 static struct cftype tcp_files[] = {
  {
   .name = "kmem.tcp.limit_in_bytes",
   .write_u64 = tcp_write_limit,

```
   .read_u64 = tcp_read_limit,
  },
+ {
+  .name = "kmem.tcp.usage_in_bytes",
+  .read_u64 = tcp_usage_in_bytes,
+ },
 };

 static void tcp_create_cgroup(struct mem_cgroup *cg, struct cgroup_subsys *ss)
--
1.7.6
```