Subject: [PATCH 1/2] Add the max_usage member on the res_counter
Posted by Pavel Emelianov on Fri, 07 Mar 2008 15:30:55 GMT
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This is a very usefull feature. E.g. one may set the
limit to "unlimited" value and check for the memory
requirements of a new container.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

---
include/linux/res_counter.h | 5 +++++
kernel/res_counter.c | 4 ++++
mm/memcontrol.c | 5 +++++
3 files changed, 14 insertions(+), 0 deletions(-)

```
diff --git a/include/linux/res_counter.h b/include/linux/res_counter.h
index 8cb1ecd..2c4deb5 100644
--- a/include/linux/res_counter.h
+++ b/include/linux/res_counter.h
@@ -25,6 +25,10 @@ struct res_counter {
   */
  unsigned long long usage;
  /*
+  * the maximal value of the usage from the counter creation
+  */
+ unsigned long long max_usage;
+ /*
   * the limit that usage cannot exceed
   */
  unsigned long long limit;
@@ -67,6 +71,7 @@ ssize_t res_counter_write(struct res_counter *counter, int member,

 enum {
  RES_USAGE,
+ RES_MAX_USAGE,
  RES_LIMIT,
  RES_FAILCNT,
 };
diff --git a/kernel/res_counter.c b/kernel/res_counter.c
index 791ff2b..f1f20c2 100644
--- a/kernel/res_counter.c
+++ b/kernel/res_counter.c
@@ -27,6 +27,8 @@ int res_counter_charge_locked(struct res_counter *counter, unsigned long
val)
  }

  counter->usage += val;
```

```
+ if (counter->usage > counter->max_usage)
+  counter->max_usage = counter->usage;
  return 0;
 }

@@ -65,6 +67,8 @@ res_counter_member(struct res_counter *counter, int member)
  switch (member) {
  case RES_USAGE:
   return &counter->usage;
+ case RES_MAX_USAGE:
+  return &counter->max_usage;
  case RES_LIMIT:
   return &counter->limit;
  case RES_FAILCNT:
diff --git a/mm/memcontrol.c b/mm/memcontrol.c
index 2d59163..e5c741a 100644
--- a/mm/memcontrol.c
+++ b/mm/memcontrol.c
@@ -911,6 +911,11 @@ static struct cftype mem_cgroup_files[] = {
   .read_u64 = mem_cgroup_read,
  },
  {
+  .name = "max_usage_in_bytes",
+  .private = RES_MAX_USAGE,
+  .read_u64 = mem_cgroup_read,
+ },
+ {
   .name = "limit_in_bytes",
   .private = RES_LIMIT,
   .write = mem_cgroup_write,
--
1.5.3.4
```

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