
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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Containers@lists.linux-foundation.org

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