Subject: [PATCH v4 03/14] memcg: change defines to an enum
Posted by Glauber Costa on Mon, 08 Oct 2012 10:06:09 GMT
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This is just a cleanup patch for clarity of expression. In earlier
submissions, people asked it to be in a separate patch, so here it is.

[v2: use named enum as type throughout the file as well]

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---
mm/memcontrol.c | 26 ++++++++++++++++++----------
1 file changed, 16 insertions(+), 10 deletions(-)

```
diff --git a/mm/memcontrol.c b/mm/memcontrol.c
index 7a9652a..71d259e 100644
--- a/mm/memcontrol.c
+++ b/mm/memcontrol.c
@@ -386,9 +386,12 @@ enum charge_type {
 };

 /* for encoding cft->private value on file */
-#define _MEM   (0)
-#define _MEMSWAP  (1)
-#define _OOM_TYPE  (2)
+enum res_type {
+ _MEM,
+ _MEMSWAP,
+ _OOM_TYPE,
+};
+
 #define MEMFILE_PRIVATE(x, val) ((x) << 16 | (val))
 #define MEMFILE_TYPE(val) ((val) >> 16 & 0xffff)
 #define MEMFILE_ATTR(val) ((val) & 0xffff)
@@ -3915,7 +3918,8 @@ static ssize_t mem_cgroup_read(struct cgroup *cont, struct cftype *cft,
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cont);
  char str[64];
  u64 val;
- int type, name, len;
+ int name, len;
+ enum res_type type;

  type = MEMFILE_TYPE(cft->private);
  name = MEMFILE_ATTR(cft->private);
@@ -3951,7 +3955,8 @@ static int mem_cgroup_write(struct cgroup *cont, struct cftype *cft,
```

```
        const char *buffer)
 {
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cont);
- int type, name;
+ enum res_type type;
+ int name;
  unsigned long long val;
  int ret;

@@ -4027,7 +4032,8 @@ out:
 static int mem_cgroup_reset(struct cgroup *cont, unsigned int event)
 {
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cont);
- int type, name;
+ int name;
+ enum res_type type;

  type = MEMFILE_TYPE(event);
  name = MEMFILE_ATTR(event);
@@ -4363,7 +4369,7 @@ static int mem_cgroup_usage_register_event(struct cgroup *cgrp,
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);
  struct mem_cgroup_thresholds *thresholds;
  struct mem_cgroup_threshold_ary *new;
- int type = MEMFILE_TYPE(cft->private);
+ enum res_type type = MEMFILE_TYPE(cft->private);
  u64 threshold, usage;
  int i, size, ret;

@@ -4446,7 +4452,7 @@ static void mem_cgroup_usage_unregister_event(struct cgroup *cgrp,
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);
  struct mem_cgroup_thresholds *thresholds;
  struct mem_cgroup_threshold_ary *new;
- int type = MEMFILE_TYPE(cft->private);
+ enum res_type type = MEMFILE_TYPE(cft->private);
  u64 usage;
  int i, j, size;

@@ -4524,7 +4530,7 @@ static int mem_cgroup_oom_register_event(struct cgroup *cgrp,
 {
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);
  struct mem_cgroup_eventfd_list *event;
- int type = MEMFILE_TYPE(cft->private);
+ enum res_type type = MEMFILE_TYPE(cft->private);

  BUG_ON(type != _OOM_TYPE);
  event = kmalloc(sizeof(*event), GFP_KERNEL);
@@ -4549,7 +4555,7 @@ static void mem_cgroup_oom_unregister_event(struct cgroup *cgrp,
 {
```

```
  struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);
  struct mem_cgroup_eventfd_list *ev, *tmp;
- int type = MEMFILE_TYPE(cft->private);
+ enum res_type type = MEMFILE_TYPE(cft->private);

  BUG_ON(type != _OOM_TYPE);

--
1.7.11.4
```