Subject: [PATCH 4/8] CGroup Files: Move notify_on_release file to separate write handler
Posted by Paul Menage on Fri, 20 Jun 2008 23:44:02 GMT
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This patch moves the write handler for the cgroups notify_on_release
file into a separate handler. This handler requires no cgroups locking
since it relies on atomic bitops for synchronization.

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

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 kernel/cgroup.c | 21 ++++++++++++++--------
 1 file changed, 13 insertions(+), 8 deletions(-)

Index: cws-2.6.26-rc5-mm3/kernel/cgroup.c
===
--- cws-2.6.26-rc5-mm3.orig/kernel/cgroup.c
+++ cws-2.6.26-rc5-mm3/kernel/cgroup.c
@@ -1471,13 +1471,6 @@ static ssize_t cgroup_common_file_write(
  case FILE_TASKLIST:
   retval = attach_task_by_pid(cgrp, buffer);
   break;
- case FILE_NOTIFY_ON_RELEASE:
- clear_bit(CGRP_RELEASABLE, &cgrp->flags);
- if (simple_strtoul(buffer, NULL, 10) != 0)
-   set_bit(CGRP_NOTIFY_ON_RELEASE, &cgrp->flags);
- else
-   clear_bit(CGRP_NOTIFY_ON_RELEASE, &cgrp->flags);
- break;
  default:
   retval = -EINVAL;
   goto out2;
@@ -2248,6 +2241,18 @@ static u64 cgroup_read_notify_on_release
  return notify_on_release(cgrp);
 }

+static int cgroup_write_notify_on_release(struct cgroup *cgrp,
+   struct cftype *cft,
+   u64 val)
+{
+ clear_bit(CGRP_RELEASABLE, &cgrp->flags);
+ if (val)
+ set_bit(CGRP_NOTIFY_ON_RELEASE, &cgrp->flags);
+ else
+ clear_bit(CGRP_NOTIFY_ON_RELEASE, &cgrp->flags);
+ return 0;
+}

```
+
 /*
  * for the common functions, 'private' gives the type of file
  */
@@ -2264,7 +2269,7 @@ static struct cftype files[] = {
  {
   .name = "notify_on_release",
   .read_u64 = cgroup_read_notify_on_release,
-  .write = cgroup_common_file_write,
+  .write_u64 = cgroup_write_notify_on_release,
   .private = FILE_NOTIFY_ON_RELEASE,
  },
 };

--
```

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