
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>

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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