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Subject: [RFC][PATCH] memory cgroup enhancements updated [8/10] add pre\_destroy handler

Posted by [KAMEZAWA Hiroyuki](#) on Fri, 19 Oct 2007 09:35:44 GMT

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My main purpose of this patch is for memory controller..

This patch adds a handler "pre\_destroy" to cgroup\_subsys. It is called before cgroup\_rmdir() checks all subsys's refcnt.

I think this is useful for subsyses which have some extra refs even if there are no tasks in cgroup.

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```
include/linux/cgroup.h | 1 +
kernel/cgroup.c        | 7 +++++++
2 files changed, 8 insertions(+)
```

Index: devel-2.6.23-mm1/include/linux/cgroup.h

```
=====
--- devel-2.6.23-mm1.orig/include/linux/cgroup.h
+++ devel-2.6.23-mm1/include/linux/cgroup.h
@@ -233,6 +233,7 @@ int cgroup_is_descendant(const struct cg
 struct cgroup_subsys {
     struct cgroup_subsys_state *(*create)(struct cgroup_subsys *ss,
     struct cgroup *cont);
+ void (*pre_destroy)(struct cgroup_subsys *ss, struct cgroup *cont);
 void (*destroy)(struct cgroup_subsys *ss, struct cgroup *cont);
 int (*can_attach)(struct cgroup_subsys *ss,
     struct cgroup *cont, struct task_struct *tsk);
```

Index: devel-2.6.23-mm1/kernel/cgroup.c

```
=====
--- devel-2.6.23-mm1.orig/kernel/cgroup.c
+++ devel-2.6.23-mm1/kernel/cgroup.c
@@ -2158,6 +2158,13 @@ static int cgroup_rmdir(struct inode *un
     parent = cont->parent;
     root = cont->root;
     sb = root->sb;
+ /*
+  * Notify subsyses that rmdir() request comes.
+  */
+ for_each_subsys(root, ss) {
+ if ((cont->subsys[ss->subsys_id]) && ss->pre_destroy)
+ ss->pre_destroy(ss, cont);
+ }

     if (cgroup_has_css_refs(cont)) {
```

```
mutex_unlock(&cgroup_mutex);
```

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