Subject: Re: [PATCH -mm 2/3] cgroup: simplify init_subsys() Posted by Paul Menage on Thu, 03 Apr 2008 17:41:00 GMT View Forum Message <> Reply to Message

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On Wed, Apr 2, 2008 at 10:53 PM, Li Zefan < lizf@cn.fujitsu.com> wrote:
> We are at system boot and there is only 1 cgroup group (i,e,
> init_css_set), so we don't need to run through the css_set
> linked list. Neither do we need to run through the task list,
> since no processes have been created yet.
>
>
 Also referring to a comment in cgroup.h:
>
 struct css_set
 {
>
>
>
       * Set of subsystem states, one for each subsystem. This array
>
       * is immutable after creation apart from the init css set
>
       * during subsystem registration (at boot time).
>
>
      struct cgroup subsys state *subsys[CGROUP SUBSYS COUNT];
>
> }
> Signed-off-by: Li Zefan < lizf@cn.fujitsu.com>
Reviewed-by: Paul Menage <menage@google.com>
Looks good, thanks.
> Documentation/cgroups.txt | 3 +--
> kernel/cgroup.c
                        | 35 +++++++
  2 files changed, 10 insertions(+), 28 deletions(-)
>
> diff --git a/Documentation/cgroups.txt b/Documentation/cgroups.txt
> index 31d12e2..c298a66 100644
> --- a/Documentation/cgroups.txt
> +++ b/Documentation/cgroups.txt
 @@ -500,8 +500,7 @@ post-attachment activity that requires memory allocations or blocking.
  void fork(struct cgroup_subsy *ss, struct task_struct *task)
> -Called when a task is forked into a cgroup. Also called during
> -registration for all existing tasks.
> +Called when a task is forked into a cgroup.
  void exit(struct cgroup subsys *ss, struct task struct *task)
```

```
>
>
> diff --git a/kernel/cgroup.c b/kernel/cgroup.c
> index f79e60d..250e28e 100644
> --- a/kernel/cgroup.c
> +++ b/kernel/cgroup.c
> @ @ -2471,7 +2471,6 @ @ static int cgroup_rmdir(struct inode *unused_dir, struct dentry
*dentry)
>
  static void __init cgroup_init_subsys(struct cgroup_subsys *ss)
>
       struct cgroup_subsys_state *css;
>
       struct list_head *I;
>
>
       printk(KERN_INFO "Initializing cgroup subsys %s\n", ss->name);
  @@ -2482,35 +2481,19 @@ static void __init cgroup_init_subsys(struct cgroup_subsys *ss)
>
       BUG ON(IS ERR(css));
>
       init_cgroup_css(css, ss, dummytop);
>
>
       /* Update all cgroup groups to contain a subsys
        /* Update the init_css_set to contain a subsys
> +
       * pointer to this state - since the subsystem is
        * newly registered, all tasks and hence all cgroup
        * groups are in the subsystem's top cgroup. */
       write lock(&css set lock);
       I = &init css set.list;
       do {
            struct css set *cq =
                  list_entry(l, struct css_set, list);
            cg->subsys[ss->subsys_id] = dummytop->subsys[ss->subsys_id];
            I = I - \text{next}:
       } while (I != &init_css_set.list);
       write unlock(&css set lock);
>
       /* If this subsystem requested that it be notified with fork
        * events, we should send it one now for every process in the
        * system */
       if (ss->fork) {
            struct task_struct *g, *p;
            read_lock(&tasklist_lock);
            do_each_thread(g, p) {
                  ss->fork(ss, p);
            } while each thread(q, p);
```

```
read_unlock(&tasklist_lock);
       }
        * newly registered, all tasks and hence the
        * init_css_set is in the subsystem's top cgroup. */
        init_css_set.subsys[ss->subsys_id] = dummytop->subsys[ss->subsys_id];
>
      need_forkexit_callback |= ss->fork || ss->exit;
>
        /* At system boot, before all subsystems have been
        * registered, no tasks have been forked, so we don't
        * need to invoke fork callbacks here. */
        BUG_ON(!list_empty(&init_task.tasks));
       ss->active = 1;
>
  }
>
> 1.5.4.rc3
```

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