## Subject: [PATCH] Simplify /proc/cgroups Posted by menage on Thu, 18 Oct 2007 02:56:36 GMT

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This patch simplifies /proc/cgroups by removing pointers and some debugging information, and simply presenting a list of subsystems, which hierarchy they are part of (if any) and the number of cgroups created for that subsystem. Hierarchy id is determined by the bitmask of subsystem ids attached to that hierarchy.

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Several people have commented that /proc/cgroups is too confusing or contains strange information. Here's an attempt to simplify it. New typical output looks like:

```
#subsys_name hierarchy num_cgroups
cpuset 1 2
cpuacct 10 1
debug 0 1
ns 10 1
memory 0 1
cpu 0 1
```

Maybe there should be more tabs so that the columns line up better? But then it'll be out of line if people create subsystems with longer names ...

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

```
--- container-2.6.23-mm1.orig/kernel/cgroup.c
```

```
+++ container-2.6.23-mm1/kernel/cgroup.c
@@ -2403,31 +2403,14 @@ static int proc_cgroupstats_show(struct int i;
```

struct cgroupfs\_root \*root;

- + seq\_puts(m, "#subsys\_name\thierarchy\tnum\_cgroups\n"); mutex\_lock(&cgroup\_mutex);
- seq\_puts(m, "Hierarchies:\n");
- for\_each\_root(root) {
- struct cgroup\_subsys \*ss;
- int first = 1;
- seg printf(m, "%p: bits=%lx cgroups=%d (", root,

```
root->subsys_bits, root->number_of_cgroups);
- for each subsys(root, ss) {
- seq_printf(m, "%s%s", first ? "" : ", ", ss->name);
  first = false;
- seq_putc(m, ')');
- if (root->sb) {
  seq_printf(m, " s_active=%d",
     atomic_read(&root->sb->s_active));
- }
seq_putc(m, '\n');
- }
- seq_puts(m, "Subsystems:\n");
 for (i = 0; i < CGROUP_SUBSYS_COUNT; i++) {
 struct cgroup_subsys *ss = subsys[i];
seq_printf(m, "%d: name=%s hierarchy=%p\n",
    i, ss->name, ss->root);
+ seq_printf(m, "%s\t%d\t%d\n",
    ss->name, ss->root->subsys_bits,
+
     ss->root->number_of_cgroups);
- seg_printf(m, "Control Group groups: %d\n", css_set_count);
 mutex_unlock(&cgroup_mutex);
 return 0;
}
```

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