
Subject: [PATCH 3/3] make 'none' field a flag
Posted by [Glauber Costa](#) on Sun, 11 Dec 2011 14:45:38 GMT
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There is no reason to have a flags field, and then a separate bool field just to indicate if 'none' subsystem were explicitly requested.

Make it a flag

Signed-off-by: Glauber Costa <glommer@parallels.com>

kernel/cgroup.c | 20 ++++++++-----
1 files changed, 12 insertions(+), 8 deletions(-)

diff --git a/kernel/cgroup.c b/kernel/cgroup.c

index fa405ee..e700abe 100644

--- a/kernel/cgroup.c

+++ b/kernel/cgroup.c

@@ -232,6 +232,7 @@ inline int cgroup_is_removed(const struct cgroup *cgrp)

```
enum {  
    ROOT_NOPREFIX, /* mounted subsystems have no named prefix */  
    ROOT_CLONE_CHILDREN, /* mounted subsystems starts with clone_children */  
+ ROOT_NOSUBSYS, /* explicitly asked for 'none' subsystems */  
};
```

static int cgroup_is_releasable(const struct cgroup *cgrp)

@@ -1064,13 +1065,16 @@ struct cgroup_sb_opts {

```
    unsigned long flags;  
    char *release_agent;  
    char *name;  
- /* User explicitly requested empty subsystem */  
- bool none;
```

```
    struct cgroupfs_root *new_root;
```

```
};
```

+static inline int opts_no_subsys(const struct cgroup_sb_opts *opts)

```
+{  
+ return test_bit(ROOT_NOSUBSYS, &opts->flags);  
+}  
+  
+/*
```

```
 * Convert a hierarchy specifier into a bitmask of subsystems and flags. Call  
 * with cgroup_mutex held to protect the subsys[] array. This function takes
```

@@ -1098,7 +1102,7 @@ static int parse_cgroupfs_options(char *data, struct cgroup_sb_opts *opts)

```

    return -EINVAL;
    if (!strcmp(token, "none")) {
        /* Explicitly have no subsystems */
        - opts->none = true;
        + set_bit(ROOT_NOSUBSYS, &opts->flags);
        continue;
    }
    if (!strcmp(token, "all")) {
@@ -1178,7 +1182,7 @@ static int parse_cgroupfs_options(char *data, struct cgroup_sb_opts
*opts)
    * otherwise 'all', 'none' and a subsystem name options were not
    * specified, let's default to 'all'
    */
    - if (all_ss || (!all_ss && !one_ss && !opts->none)) {
    + if (all_ss || (!all_ss && !one_ss && !opts_no_subsys(opts))) {
        for (i = 0; i < CGROUP_SUBSYS_COUNT; i++) {
            struct cgroup_subsys *ss = subsys[i];
            if (ss == NULL)
@@ -1202,7 +1206,7 @@ static int parse_cgroupfs_options(char *data, struct cgroup_sb_opts
*opts)

    /* Can't specify "none" and some subsystems */
    - if (opts->subsys_bits && opts->none)
    + if (opts->subsys_bits && opts_no_subsys(opts))
        return -EINVAL;

    /*
@@ -1370,7 +1374,7 @@ static int cgroup_test_super(struct super_block *sb, void *data)
    * If we asked for subsystems (or explicitly for no
    * subsystems) then they must match
    */
    - if ((opts->subsys_bits || opts->none)
    + if ((opts->subsys_bits || opts_no_subsys(opts))
        && (opts->subsys_bits != root->subsys_bits))
        return 0;

@@ -1381,7 +1385,7 @@ static struct cgroupfs_root *cgroup_root_from_opts(struct
cgroup_sb_opts *opts)
{
    struct cgroupfs_root *root;

    - if (!opts->subsys_bits && !opts->none)
    + if (!opts->subsys_bits && !opts_no_subsys(opts))
        return NULL;

    root = kzalloc(sizeof(*root), GFP_KERNEL);
@@ -1426,7 +1430,7 @@ static int cgroup_set_super(struct super_block *sb, void *data)

```

```
if (!opts->new_root)
    return -EINVAL;

- BUG_ON(!opts->subsys_bits && !opts->none);
+ BUG_ON(!opts->subsys_bits && !opts_no_subsys(opts));

    ret = set_anon_super(sb, NULL);
    if (ret)
--
1.7.6.4
```
