
Subject: [PATCH] proc: less LOCK operations during lookup
Posted by [Alexey Dobriyan](#) on Thu, 15 Nov 2007 16:13:25 GMT
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Pseudo-code for lookup effectively is:

```
LOCK kernel
LOCK proc_subdir_lock
find PDE
UNLOCK proc_subdir_lock
```

```
get inode
```

```
LOCK proc_subdir_lock
goto unlock
UNLOCK proc_subdir_lock
UNLOCK kernel
```

We can get rid of LOCK/UNLOCK pair after getting inode simply by jumping to `unlock_kernel()` directly.

Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

```
fs/proc/generic.c | 4 +---
1 file changed, 2 insertions(+), 2 deletions(-)
```

```
--- a/fs/proc/generic.c
+++ b/fs/proc/generic.c
@@ -403,12 +403,12 @@ struct dentry *proc_lookup(struct inode * dir, struct dentry *dentry,
struct nam
    spin_unlock(&proc_subdir_lock);
    error = -EINVAL;
    inode = proc_get_inode(dir->i_sb, ino, de);
-   spin_lock(&proc_subdir_lock);
-   break;
+   goto out_unlock;
    }
    }
    }
    spin_unlock(&proc_subdir_lock);
+out_unlock:
    unlock_kernel();

    if (inode) {
```
