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) {
```