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Subject: [PATCH] Rework /proc/locks via seq\_files and seq\_list helpers (v2)  
Posted by [Pavel Emelianov](#) on Thu, 20 Sep 2007 08:45:02 GMT  
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Currently /proc/locks is shown with a proc\_read function, but its behavior is rather complex as it has to manually handle current offset and buffer length. On the other hand, files that show objects from lists can be easily reimplemented using the sequential files and the seq\_list\_XXX() helpers.

This saves (as usually) 16 lines of code and more than 200 from the .text section.

This patch looks rather ugly, as diff often uses curly braces as not-changed lines, but I haven't managed to organize the code to make diff look better. Except for move the whole proc related stuff upper/lower in the locks.c file...

Fixed the problem, spotted by J. Bruce Fields, about the fl variable reuse.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

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```
diff --git a/fs/locks.c b/fs/locks.c
index a1c1c01..d5b9653 100644
--- a/fs/locks.c
+++ b/fs/locks.c
@@ -1354,6 +1354,7 @@ int fcntl_getlease(struct file *filp)
int generic_setlease(struct file *filp, long arg, struct file_lock **flp)
{
    struct file_lock *fl, **before, **my_before = NULL, *lease;
+ struct file_lock *new_fl = NULL;
    struct dentry *dentry = filp->f_path.dentry;
    struct inode *inode = dentry->d_inode;
    int error, rdlease_count = 0, wrlease_count = 0;
@@ -1380,6 +1381,11 @@ int generic_setlease(struct file *filp,
    || (atomic_read(&inode->i_count) > 1)))
    goto out;

+ error = -ENOMEM;
+ new_fl = locks_alloc_lock();
+ if (new_fl == NULL)
+ goto out;
+
/*
 * At this point, we know that if there is an exclusive
```

```

* lease on this file, then we hold it on this filp
@@ -1422,18 +1428,15 @@ int generic_setlease(struct file *filp,
    if (!leases_enable)
        goto out;

- error = -ENOMEM;
- fl = locks_alloc_lock();
- if (fl == NULL)
-     goto out;
-
- locks_copy_lock(fl, lease);
-
- locks_insert_lock(before, fl);
+ locks_copy_lock(new_fl, lease);
+ locks_insert_lock(before, new_fl);

    *flp = fl;
- error = 0;
+ return 0;
+
    out:
+ if (new_fl != NULL)
+     locks_free_lock(new_fl);
    return error;
}
EXPORT_SYMBOL(generic_setlease);

```

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Subject: Re: [PATCH] Rework /proc/locks via seq\_files and seq\_list helpers (v2)  
 Posted by [Pavel Emelianov](#) on Thu, 20 Sep 2007 08:46:09 GMT  
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Pavel Emelyanov wrote:

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> its behavior is rather complex as it has to manually handle
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> Fixed the problem, spotted by J. Bruce Fields, about the fl

```

> variable reuse.

>

> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

OOPS! Please disregard, wrong comment was copied :(

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