
Subject: [PATCH 02/25] introduce simple_set_mnt_no_get() helper for NFS

Posted by [Dave Hansen](#) on Mon, 11 Dec 2006 22:30:03 GMT

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The next patch will introduce a list of all mounts for a given superblock. In order to keep the list, we need to make sure all filesystems attaching a mount to a superblock get added to this list.

NFS currently bypasses the simple_set_mnt() function, and sets mnt_sb directly. This patch makes it use a helper function, instead.

Signed-off-by: Dave Hansen <haveblue@us.ibm.com>

```
lxc-dave/fs/namespace.c | 13 ++++++++---
lxc-dave/fs/nfs/super.c | 10 +++++-----
lxc-dave/include/linux/fs.h | 1 +
3 files changed, 16 insertions(+), 8 deletions(-)
```

diff -puN fs/namespace.c~reintroduce-list-of-vfsmounts-over-superblock fs/namespace.c

--- lxc/fs/namespace.c~reintroduce-list-of-vfsmounts-over-superblock 2006-12-11

14:21:57.000000000 -0800

+++ lxc-dave/fs/namespace.c 2006-12-11 14:21:57.000000000 -0800

```
@@ -77,13 +77,20 @@ struct vfsmount *alloc_vfsmnt(const char
    return mnt;
}
```

```
-int simple_set_mnt(struct vfsmount *mnt, struct super_block *sb)
+int simple_set_mnt_no_get(struct vfsmount *mnt, struct super_block *sb)
{
- mnt->mnt_sb = sb;
- mnt->mnt_root = dget(sb->s_root);
+ mnt->mnt_sb = sb;
    return 0;
}
```

```
+EXPORT_SYMBOL(simple_set_mnt_no_get);
+
+int simple_set_mnt(struct vfsmount *mnt, struct super_block *sb)
+{
+ mnt->mnt_root = dget(sb->s_root);
+ return simple_set_mnt_no_get(mnt, sb);
+}
+
EXPORT_SYMBOL(simple_set_mnt);
```

```

void free_vfsmnt(struct vfsmount *mnt)
diff -puN fs/nfs/super.c~reintroduce-list-of-vfsmounts-over-superblock fs/nfs/super.c
--- lxc/fs/nfs/super.c~reintroduce-list-of-vfsmounts-over-superblock 2006-12-11
14:21:57.000000000 -0800
+++ lxc-dave/fs/nfs/super.c 2006-12-11 14:21:57.000000000 -0800
@@ -653,7 +653,7 @@ static int nfs_get_sb(struct file_system
 }

    s->s_flags |= MS_ACTIVE;
- mnt->mnt_sb = s;
+ simple_set_mnt_no_get(mnt, s);
  mnt->mnt_root = mntroot;
  return 0;

@@ -726,7 +726,7 @@ static int nfs_xdev_get_sb(struct file_s
 }

    s->s_flags |= MS_ACTIVE;
- mnt->mnt_sb = s;
+ simple_set_mnt_no_get(mnt, s);
  mnt->mnt_root = mntroot;

  dprintk("<-- nfs_xdev_get_sb() = 0\n");
@@ -903,7 +903,7 @@ static int nfs4_get_sb(struct file_syste
 }

    s->s_flags |= MS_ACTIVE;
- mnt->mnt_sb = s;
+ simple_set_mnt_no_get(mnt, s);
  mnt->mnt_root = mntroot;
  kfree(mntpath);
  kfree(hostname);
@@ -984,7 +984,7 @@ static int nfs4_xdev_get_sb(struct file_
 }

    s->s_flags |= MS_ACTIVE;
- mnt->mnt_sb = s;
+ simple_set_mnt_no_get(mnt, s);
  mnt->mnt_root = mntroot;

  dprintk("<-- nfs4_xdev_get_sb() = 0\n");
@@ -1051,7 +1051,7 @@ static int nfs4_referral_get_sb(struct f
 }

    s->s_flags |= MS_ACTIVE;
- mnt->mnt_sb = s;
+ simple_set_mnt_no_get(mnt, s);
  mnt->mnt_root = mntroot;

```

```
    dprintk("<-- nfs4_referral_get_sb() = 0\n");
diff -puN include/linux/fs.h~reintroduce-list-of-vfsmounts-over-superblock include/linux/fs.h
--- lxc/include/linux/fs.h~reintroduce-list-of-vfsmounts-over-superblock 2006-12-11
14:21:57.000000000 -0800
+++ lxc-dave/include/linux/fs.h 2006-12-11 14:21:57.000000000 -0800
@@ -1426,6 +1426,7 @@ extern int get_sb_pseudo(struct file_sys
    struct super_operations *ops, unsigned long,
    struct vfsmount *mnt);
extern int simple_set_mnt(struct vfsmount *mnt, struct super_block *sb);
+extern int simple_set_mnt_no_get(struct vfsmount *mnt, struct super_block *sb);
int __put_super(struct super_block *sb);
int __put_super_and_need_restart(struct super_block *sb);
void unnamed_dev_init(void);
```

—

Containers mailing list
Containers@lists.osdl.org
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