
Subject: [patch 17/22] elevate write count over calls to vfs_rename()
Posted by [Cedric Le Goater](#) on Thu, 07 Jun 2007 15:25:44 GMT
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This also creates a little helper in the NFS code to make an if() a little bit less ugly.

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

fs/namei.c | 4 ++++
fs/nfsd/vfs.c | 23 ++++++++-----
2 files changed, 23 insertions(+), 4 deletions(-)

Index: 2.6.22-rc4-mm2-robindmount/fs/namei.c

=====

--- 2.6.22-rc4-mm2-robindmount.orig/fs/namei.c
+++ 2.6.22-rc4-mm2-robindmount/fs/namei.c
@@ -2627,8 +2627,12 @@ static int do_rename(int olddfd, const c
if (new_dentry == trap)
goto exit5;

+ error = mnt_want_write(oldnd.mnt);
+ if (error)
+ goto exit5;
error = vfs_rename(old_dir->d_inode, old_dentry,
new_dir->d_inode, new_dentry);
+ mnt_drop_write(oldnd.mnt);
exit5:
dput(new_dentry);
exit4:

Index: 2.6.22-rc4-mm2-robindmount/fs/nfsd/vfs.c

=====

--- 2.6.22-rc4-mm2-robindmount.orig/fs/nfsd/vfs.c
+++ 2.6.22-rc4-mm2-robindmount/fs/nfsd/vfs.c
@@ -1554,6 +1554,14 @@ out_nfserr:
goto out_unlock;
}

+static inline int svc_msnfs(struct svc_fh *ffhp)
+{
+ #ifdef MSNFS
+ return (ffhp->fh_export->ex_flags & NFSEXP_MSNFS);
+ #else
+ return 0;

```

+ #endif
+ }
+ /*
+  * Rename a file
+  * N.B. After this call _both_ ffhp and tfhp need an fh_put
@@ -1615,13 +1623,20 @@ nfsd_rename(struct svc_rqst *rqstp, stru
    if (ndentry == trap)
        goto out_dput_new;

- #ifdef MSNFS
- if ((ffhp->fh_export->ex_flags & NFSEXP_MSNFS) &&
+ if (svc_msnfs(ffhp) &&
    ((atomic_read(&odentry->d_count) > 1)
     || (atomic_read(&ndentry->d_count) > 1))) {
        host_err = -EPERM;
- } else
- #endif
+ goto out_dput_new;
+ }
+
+ host_err = -EXDEV;
+ if (ffhp->fh_export->ex_mnt != tfhp->fh_export->ex_mnt)
+ goto out_dput_new;
+ host_err = mnt_want_write(ffhp->fh_export->ex_mnt);
+ if (host_err)
+ goto out_dput_new;
+
    host_err = vfs_rename(fdir, odentry, tdir, ndentry);
    if (!host_err && EX_ISSYNC(tfhp->fh_export)) {
        host_err = nfsd_sync_dir(tdententry);

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