
Subject: [PATCH 14/25] elevate write count over calls to vfs_rename()
Posted by [Dave Hansen](#) on Mon, 11 Dec 2006 22:30:11 GMT
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This does create a little helper in the NFS code to make an if() a little bit less ugly.

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

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

```
diff -puN fs/namei.c~13-24-elevate-write-count-over-calls-to-vfs-rename fs/namei.c
```

```
--- lxc/fs/namei.c~13-24-elevate-write-count-over-calls-to-vfs-rename 2006-12-11
```

```
14:22:05.000000000 -0800
```

```
+++ lxc-dave/fs/namei.c 2006-12-11 14:22:05.000000000 -0800
```

```
@ @ -2563,8 +2563,12 @ @ 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:
```

```
diff -puN fs/nfsd/vfs.c~13-24-elevate-write-count-over-calls-to-vfs-rename fs/nfsd/vfs.c
```

```
--- lxc/fs/nfsd/vfs.c~13-24-elevate-write-count-over-calls-to-vfs-rename 2006-12-11
```

```
14:22:05.000000000 -0800
```

```
+++ lxc-dave/fs/nfsd/vfs.c 2006-12-11 14:22:05.000000000 -0800
```

```
@ @ -1566,6 +1566,14 @ @ 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
@@ -1627,13 +1635,20 @@ 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(tdentry);
    }
-

```

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