
Subject: [PATCH v2] SUNRPC: remove non-exclusive pipe creation from RPC pipefs

Posted by [Stanislav Kinsbursky](#) on Mon, 26 Dec 2011 11:31:53 GMT

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This patch was created in context of clone of git branch:
git://git.linux-nfs.org/projects/trondmy/nfs-2.6.git
and rebased on tag "v3.2-rc7".

v2:

1) rebased on tag "v3.2-rc7".

SUNRPC pipefs non-exclusive pipe creation code looks obsolete. IOW, as I see it, all pipes are creating with unique full path and only once.

Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

```
include/linux/sunrpc/rpc_pipe_fs.h | 1 -
net/sunrpc/rpc_pipe.c               | 44 +++++-----
2 files changed, 6 insertions(+), 39 deletions(-)
```

diff --git a/include/linux/sunrpc/rpc_pipe_fs.h b/include/linux/sunrpc/rpc_pipe_fs.h

index e4ea430..08aae01 100644

--- a/include/linux/sunrpc/rpc_pipe_fs.h

+++ b/include/linux/sunrpc/rpc_pipe_fs.h

@@ -30,7 +30,6 @@ struct rpc_inode {

int pipelen;

int nreaders;

int nwriters;

- int nkern_readwriters;

wait_queue_head_t waitq;

#define RPC_PIPE_WAIT_FOR_OPEN 1

int flags;

diff --git a/net/sunrpc/rpc_pipe.c b/net/sunrpc/rpc_pipe.c

index bfddd68..e2f7b7f 100644

--- a/net/sunrpc/rpc_pipe.c

+++ b/net/sunrpc/rpc_pipe.c

@@ -555,7 +555,6 @@ static int __rpc_mkpipe(struct inode *dir, struct dentry *dentry,
if (err)

return err;

rpci = RPC_I(dentry->d_inode);

- rpci->nkern_readwriters = 1;

rpci->private = private;

rpci->flags = flags;

rpci->ops = ops;

@@ -588,16 +587,12 @@ static int __rpc_unlink(struct inode *dir, struct dentry *dentry)

static int __rpc_rmpipe(struct inode *dir, struct dentry *dentry)

```

{
    struct inode *inode = dentry->d_inode;
- struct rpc_inode *rpci = RPC_I(inode);

- rpci->nkern_readwriters--;
- if (rpci->nkern_readwriters != 0)
- return 0;
    rpc_close_pipes(inode);
    return __rpc_unlink(dir, dentry);
}

-static struct dentry *__rpc_lookup_create(struct dentry *parent,
+static struct dentry *__rpc_lookup_create_exclusive(struct dentry *parent,
    struct qstr *name)
{
    struct dentry *dentry;
@@ -605,27 +600,13 @@ static struct dentry *__rpc_lookup_create(struct dentry *parent,
    dentry = d_lookup(parent, name);
    if (!dentry) {
        dentry = d_alloc(parent, name);
- if (!dentry) {
-     dentry = ERR_PTR(-ENOMEM);
-     goto out_err;
- }
+ if (!dentry)
+ return ERR_PTR(-ENOMEM);
    }
- if (!dentry->d_inode)
+ if (dentry->d_inode == NULL) {
    d_set_d_op(dentry, &rpc_dentry_operations);
-out_err:
- return dentry;
-}
-
-static struct dentry *__rpc_lookup_create_exclusive(struct dentry *parent,
-    struct qstr *name)
-{
- struct dentry *dentry;
-
- dentry = __rpc_lookup_create(parent, name);
- if (IS_ERR(dentry))
- return dentry;
- if (dentry->d_inode == NULL)
- return dentry;
+ }
    dput(dentry);
    return ERR_PTR(-EEXIST);
}

```

```

@@ -813,22 +794,9 @@ struct dentry *rpc_mkpipe(struct dentry *parent, const char *name,
    q.hash = full_name_hash(q.name, q.len),

    mutex_lock_nested(&dir->i_mutex, I_MUTEX_PARENT);
- dentry = __rpc_lookup_create(parent, &q);
+ dentry = __rpc_lookup_create_exclusive(parent, &q);
    if (IS_ERR(dentry))
        goto out;
- if (dentry->d_inode) {
- struct rpc_inode *rpci = RPC_I(dentry->d_inode);
- if (rpci->private != private ||
-     rpci->ops != ops ||
-     rpci->flags != flags) {
- dput (dentry);
- err = -EBUSY;
- goto out_err;
- }
- rpci->nkern_readwriters++;
- goto out;
- }
-
    err = __rpc_mkpipe(dir, dentry, umode, &rpc_pipe_fops,
        private, ops, flags);
    if (err)

```
