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

Posted by [Stanislav Kinsbursky](#) on Tue, 08 Nov 2011 11:11:00 GMT

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This patch-set was created in context of clone of git branch:
`git://git.linux-nfs.org/projects/trondmy/nfs-2.6.git`.

v2:

1) Rebased of current repo state (i.e. all commits were pulled before apply)

I feel it is ready for inclusion if no objections will appear.

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)

```
