## Subject: [PATCH v2 4/7] SUNRPC: pipefs dentry lookup helper introduced Posted by Stanislav Kinsbursky on Tue, 08 Nov 2011 11:16:15 GMT

View Forum Message <> Reply to Message

In all places, where pipefs dentries are created, only directory inode is actually required to create new dentry. And all this directories has root pipefs dentry as their parent. So we actually don't need this pipefs mount point at all if some pipefs lookup method will be provided.

IOW, all we really need is just superblock and simple lookup method to find root's child dentry with appropriate name. And this patch introduces this method.

Note, that no locking implemented in rpc\_d\_lookup\_sb(). So it can be used only in case of assurance, that pipefs superblock still exist. IOW, we can use this method only in pipefs mount-umount notification subscribers callbacks.

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

```
include/linux/sunrpc/rpc pipe fs.h |
net/sunrpc/rpc pipe.c
                              | 16 +++++++++++++
2 files changed, 19 insertions(+), 0 deletions(-)
diff --git a/include/linux/sunrpc/rpc_pipe_fs.h b/include/linux/sunrpc/rpc_pipe_fs.h
index 733ef50..4585985 100644
--- a/include/linux/sunrpc/rpc_pipe_fs.h
+++ b/include/linux/sunrpc/rpc_pipe_fs.h
@@ -51,6 +51,9 @@ enum {
 RPC PIPEFS UMOUNT,
};
+extern struct dentry *rpc d lookup sb(const struct super block *sb,
       const unsigned char *dir_name);
+
extern ssize_t rpc_pipe_generic_upcall(struct file *, struct rpc_pipe msq *,
       char __user *, size_t);
extern int rpc queue upcall(struct inode *, struct rpc pipe msg *);
diff --git a/net/sunrpc/rpc_pipe.c b/net/sunrpc/rpc_pipe.c
index 07fb7dd..1de840d 100644
--- a/net/sunrpc/rpc_pipe.c
+++ b/net/sunrpc/rpc pipe.c
@ @ -1008,6 +1008,22 @ @ static const struct rpc filelist files[] = {
},
};
+ * This call can be used only in RPC pipefs mount notification hooks.
+ */
+struct dentry *rpc d lookup sb(const struct super block *sb,
```

```
+ const unsigned char *dir_name)
+{
+ struct qstr dir = {
+ .name = dir_name,
+ .len = strlen(dir_name),
+ .hash = full_name_hash(dir_name, strlen(dir_name)),
+ };
+ 
+ return d_lookup(sb->s_root, &dir);
+}
+EXPORT_SYMBOL_GPL(rpc_d_lookup_sb);
+ 
static int
rpc_fill_super(struct super_block *sb, void *data, int silent) {
```