Subject: [PATCH 4/7] SUNRPC: pipefs dentry lookup helper introduced Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 14:27:58 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.

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```
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 c1cdb2f..4a327ad 100644
--- a/include/linux/sunrpc/rpc_pipe_fs.h
+++ b/include/linux/sunrpc/rpc_pipe_fs.h
@ @ -52,6 +52,9 @ @ enum {
 RPC PIPEFS UMOUNT,
};
+extern struct dentry *rpc d lookup sb(const struct super block *sb,
+
       const unsigned char *dir_name);
extern int rpc_queue_upcall(struct inode *, struct rpc_pipe_msg *);
struct rpc clnt;
diff --git a/net/sunrpc/rpc_pipe.c b/net/sunrpc/rpc_pipe.c
index 8abeb9d..4860a56 100644
--- a/net/sunrpc/rpc_pipe.c
+++ b/net/sunrpc/rpc pipe.c
@ @ -1020,6 +1020,22 @ @ 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) {
```