
Subject: [PATCH v2 2/3] SUNRPC: traverse clients tree on PipeFS event
Posted by [Stanislav Kinsbursky](#) on Fri, 27 Apr 2012 09:00:17 GMT
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v2: recursion was replaced by loop

If client is a clone, then it's parent can not be in the list.
But parent's Pipefs dentries have to be created and destroyed.

Note: event skip helper for clients introduced

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

```
---
net/sunrpc/clnt.c | 29 ++++++-----
1 files changed, 25 insertions(+), 4 deletions(-)

diff --git a/net/sunrpc/clnt.c b/net/sunrpc/clnt.c
index 8a19849..d127bd7 100644
--- a/net/sunrpc/clnt.c
+++ b/net/sunrpc/clnt.c
@@ -176,8 +176,16 @@ rpc_setup_pipedir(struct rpc_clnt *clnt, const char *dir_name)
    return 0;
}

-static int __rpc_pipefs_event(struct rpc_clnt *clnt, unsigned long event,
-    struct super_block *sb)
+static inline int rpc_clnt_skip_event(struct rpc_clnt *clnt, unsigned long event)
+{
+    if (((event == RPC_PIPEFS_MOUNT) && clnt->cl_dentry) ||
+        ((event == RPC_PIPEFS_UMOUNT) && !clnt->cl_dentry))
+        return 1;
+    return 0;
+}
+
+static int __rpc_clnt_handle_event(struct rpc_clnt *clnt, unsigned long event,
+    struct super_block *sb)
+{
+    struct dentry *dentry;
+    int err = 0;
@@ -206,6 +214,20 @@ static int __rpc_pipefs_event(struct rpc_clnt *clnt, unsigned long event,
    return err;
}

+static int __rpc_pipefs_event(struct rpc_clnt *clnt, unsigned long event,
+    struct super_block *sb)
+{
+    int error = 0;
```

```

+
+ for (;;) clnt = clnt->cl_parent) {
+ if (!rpc_clnt_skip_event(clnt, event))
+ error = __rpc_clnt_handle_event(clnt, event, sb);
+ if (error || clnt == clnt->cl_parent)
+ break;
+ }
+ return error;
+}
+
static struct rpc_clnt *rpc_get_client_for_event(struct net *net, int event)
{
    struct sunrpc_net *sn = net_generic(net, sunrpc_net_id);
@@ -215,8 +237,7 @@ static struct rpc_clnt *rpc_get_client_for_event(struct net *net, int event)
    list_for_each_entry(clnt, &sn->all_clients, cl_clients) {
        if (clnt->cl_program->pipe_dir_name == NULL)
            break;
- if (((event == RPC_PIPEFS_MOUNT) && clnt->cl_dentry) ||
-     ((event == RPC_PIPEFS_UMOUNT) && !clnt->cl_dentry))
+ if (rpc_clnt_skip_event(clnt, event))
            continue;
        if (atomic_inc_not_zero(&clnt->cl_count) == 0)
            continue;

```
