
Subject: [PATCH 2/6] NFS: split cache creation and PipeFS registration

Posted by [Stanislav Kinsbursky](#) on Fri, 25 Nov 2011 13:16:40 GMT

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This precursor patch splits NFS cache creation and PipeFS registration. It's required for latter split of NFS DNS resolver cache creation per network namespace context and PipeFS registration/unregistration on MOUNT/UMOUNT events.

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```
fs/nfs/cache_lib.c | 11 ++++++++--
fs/nfs/cache_lib.h |  2 ++
fs/nfs/dns_resolve.c | 11 ++++++++--
3 files changed, 21 insertions(+), 3 deletions(-)
```

```
diff --git a/fs/nfs/cache_lib.c b/fs/nfs/cache_lib.c
```

```
index d62a895..9d79a2e 100644
```

```
--- a/fs/nfs/cache_lib.c
```

```
+++ b/fs/nfs/cache_lib.c
```

```
@@ -120,7 +120,6 @@ int nfs_cache_register(struct cache_detail *cd)
```

```
    mnt = rpc_get_mount();
```

```
    if (IS_ERR(mnt))
```

```
        return PTR_ERR(mnt);
```

```
- sunrpc_init_cache_detail(cd);
```

```
    ret = vfs_path_lookup(mnt->mnt_root, mnt, "/cache", 0, &path);
```

```
    if (ret)
```

```
        goto err;
```

```
@@ -129,7 +128,6 @@ int nfs_cache_register(struct cache_detail *cd)
```

```
    if (!ret)
```

```
        return ret;
```

```
err:
```

```
- sunrpc_destroy_cache_detail(cd);
```

```
    rpc_put_mount();
```

```
    return ret;
```

```
}
```

```
@@ -141,3 +139,12 @@ void nfs_cache_unregister(struct cache_detail *cd)
```

```
    rpc_put_mount();
```

```
}
```

```
+void nfs_cache_init(struct cache_detail *cd)
```

```
+{
```

```
+    sunrpc_init_cache_detail(cd);
```

```
+}
```

```
+
```

```
+void nfs_cache_destroy(struct cache_detail *cd)
```

```
+{
```

```

+ sunrpc_destroy_cache_detail(cd);
+}
diff --git a/fs/nfs/cache_lib.h b/fs/nfs/cache_lib.h
index 7cf6caf..815dd66 100644
--- a/fs/nfs/cache_lib.h
+++ b/fs/nfs/cache_lib.h
@@ -23,5 +23,7 @@ extern struct nfs_cache_defer_req *nfs_cache_defer_req_alloc(void);
extern void nfs_cache_defer_req_put(struct nfs_cache_defer_req *dreq);
extern int nfs_cache_wait_for_upcall(struct nfs_cache_defer_req *dreq);

+extern void nfs_cache_init(struct cache_detail *cd);
+extern void nfs_cache_destroy(struct cache_detail *cd);
extern int nfs_cache_register(struct cache_detail *cd);
extern void nfs_cache_unregister(struct cache_detail *cd);
diff --git a/fs/nfs/dns_resolve.c b/fs/nfs/dns_resolve.c
index a6e711a..619dea6 100644
--- a/fs/nfs/dns_resolve.c
+++ b/fs/nfs/dns_resolve.c
@@ -361,12 +361,21 @@ ssize_t nfs_dns_resolve_name(char *name, size_t namelen,

int nfs_dns_resolver_init(void)
{
- return nfs_cache_register(&nfs_dns_resolve);
+ int err;
+
+ nfs_cache_init(&nfs_dns_resolve);
+ err = nfs_cache_register(&nfs_dns_resolve);
+ if (err) {
+ nfs_cache_destroy(&nfs_dns_resolve);
+ return err;
+ }
+ return 0;
}

void nfs_dns_resolver_destroy(void)
{
nfs_cache_unregister(&nfs_dns_resolve);
+ nfs_cache_destroy(&nfs_dns_resolve);
}

#endif

```
