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Subject: [PATCH 8/8] nfsd: pass pointer to expkey cache down to stack wherever possible.

Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:50 GMT

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This cache will be per-net soon. And it's easier to get the pointer to desired per-net instance only once and then pass it down instead of discovering it in every place were required.

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fs/nfsd/export.c | 32 ++++++-----
1 files changed, 16 insertions(+), 16 deletions(-)

diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index c237b0a..429b2f5 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -71,9 +71,9 @@ static int expkey_upcall(struct cache_detail *cd, struct cache_head *h)
     return sunrpc_cache_pipe_upcall(cd, h, expkey_request);
 }

-static struct svc_expkey *svc_expkey_update(struct svc_expkey *new, struct svc_expkey *old);
-static struct svc_expkey *svc_expkey_lookup(struct svc_expkey *);
-static struct cache_detail svc_expkey_cache;
+static struct svc_expkey *svc_expkey_update(struct cache_detail *cd, struct svc_expkey *new,
+      struct svc_expkey *old);
+static struct svc_expkey *svc_expkey_lookup(struct cache_detail *cd, struct svc_expkey *);

static int expkey_parse(struct cache_detail *cd, char *mesg, int mlen)
{
@@ -131,7 +131,7 @@ static int expkey_parse(struct cache_detail *cd, char *mesg, int mlen)
    key.ek_fsidtype = fsidtype;
    memcpy(key.ek_fsid, buf, len);

- ek = svc_expkey_lookup(&key);
+ ek = svc_expkey_lookup(cd, &key);
    err = -ENOMEM;
    if (!ek)
        goto out;
@@ -145,7 +145,7 @@ static int expkey_parse(struct cache_detail *cd, char *mesg, int mlen)
    err = 0;
    if (len == 0) {
        set_bit(CACHE_NEGATIVE, &key.h.flags);
- ek = svc_expkey_update(&key, ek);
```

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+ ek = svc_expkey_update(cd, &key, ek);
  if (!ek)
    err = -ENOMEM;
  } else {
@@ -155,7 +155,7 @@ static int expkey_parse(struct cache_detail *cd, char *mesg, int mlen)

    dprintk("Found the path %s\n", buf);

- ek = svc_expkey_update(&key, ek);
+ ek = svc_expkey_update(cd, &key, ek);
  if (!ek)
    err = -ENOMEM;
  path_put(&key.ek_path);
@@ -268,13 +268,12 @@ svc_expkey_hash(struct svc_expkey *item)
}

static struct svc_expkey *
-svc_expkey_lookup(struct svc_expkey *item)
+svc_expkey_lookup(struct cache_detail *cd, struct svc_expkey *item)
{
  struct cache_head *ch;
  int hash = svc_expkey_hash(item);

- ch = sunrpc_cache_lookup(&svc_expkey_cache, &item->h,
-   hash);
+ ch = sunrpc_cache_lookup(cd, &item->h, hash);
  if (ch)
    return container_of(ch, struct svc_expkey, h);
  else
@@ -282,13 +281,13 @@ svc_expkey_lookup(struct svc_expkey *item)
}

static struct svc_expkey *
-svc_expkey_update(struct svc_expkey *new, struct svc_expkey *old)
+svc_expkey_update(struct cache_detail *cd, struct svc_expkey *new,
+ struct svc_expkey *old)
{
  struct cache_head *ch;
  int hash = svc_expkey_hash(new);

- ch = sunrpc_cache_update(&svc_expkey_cache, &new->h,
-   &old->h, hash);
+ ch = sunrpc_cache_update(cd, &new->h, &old->h, hash);
  if (ch)
    return container_of(ch, struct svc_expkey, h);
  else
@@ -763,7 +762,8 @@ svc_export_update(struct svc_export *new, struct svc_export *old)

```

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static struct svc_expkey *
-exp_find_key(svc_client *clp, int fsid_type, u32 *fsidv, struct cache_req *reqp)
+exp_find_key(struct cache_detail *cd, svc_client *clp, int fsid_type,
+    u32 *fsidv, struct cache_req *reqp)
{
    struct svc_expkey key, *ek;
    int err;
@@ -775,10 +775,10 @@ exp_find_key(svc_client *clp, int fsid_type, u32 *fsidv, struct
cache_req *reqp)
    key.ek_fsidtype = fsid_type;
    memcpy(key.ek_fsid, fsidv, key_len(fsid_type));

- ek = svc_expkey_lookup(&key);
+ ek = svc_expkey_lookup(cd, &key);
    if (ek == NULL)
        return ERR_PTR(-ENOMEM);
- err = cache_check(&svc_expkey_cache, &ek->h, reqp);
+ err = cache_check(cd, &ek->h, reqp);
    if (err)
        return ERR_PTR(err);
    return ek;
@@ -883,7 +883,7 @@ static struct svc_export *exp_find(struct cache_detail *cd,
u32 *fsidv, struct cache_req *reqp)
{
    struct svc_export *exp;
- struct svc_expkey *ek = exp_find_key(clp, fsid_type, fsidv, reqp);
+ struct svc_expkey *ek = exp_find_key(&svc_expkey_cache, clp, fsid_type, fsidv, reqp);
    if (IS_ERR(ek))
        return ERR_CAST(ek);

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