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Subject: [PATCH 0/8] NFSd: precursor and cleanup patch set  
Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:08:53 GMT  
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This patch set prepares ground for making NFSd export and expkey caches allocated and registered per network namespace context.  
Mainly, it just replaces hard-coded pointers with dereferenced everywhere required.

The following series consists of:

---

Stanislav Kinsbursky (8):

- nfsd: use passed cache\_detail pointer expkey\_parse()
- nfsd: add link to owner cache detail to svc\_export structure
- nfsd: use cache detail pointer from svc\_export structure on cache put
- nfsd: use exp\_put() for svc\_export\_cache put
- nfsd: pass svc\_export\_cache pointer as private data to "exports" seq file ops
- nfsd: use hash table from cache detail in nfsd export seq ops
- nfsd: pass pointer to export cache down to stack wherever possible.
- nfsd: pass pointer to expkey cache down to stack wherever possible.

```
fs/nfsd/export.c      | 102 ++++++-----  
fs/nfsd/nfsctl.c      | 11 +++-  
fs/nfsd/nfsfh.c       | 2 -  
include/linux/nfsd/export.h | 3 +  
4 files changed, 71 insertions(+), 47 deletions(-)
```

---

Subject: [PATCH 1/8] nfsd: use passed cache\_detail pointer expkey\_parse()  
Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:01 GMT  
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Using of hard-coded svc\_expkey\_cache pointer in expkey\_parse() looks redundant.  
Moreover, global cache will be replaced with per-net instance soon.

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---

```
fs/nfsd/export.c | 2 +-  
1 files changed, 1 insertions(+), 1 deletions(-)
```

```
diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c  
index 8e9689a..71c5ce3 100644
```

```

--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -163,7 +163,7 @@ static int expkey_parse(struct cache_detail *cd, char *mesg, int mlen)
    cache_flush();
    out:
    if (ek)
-   cache_put(&ek->h, &svc_expkey_cache);
+   cache_put(&ek->h, cd);
    if (dom)
        auth_domain_put(dom);
    kfree(buf);

```

---

Subject: [PATCH 2/8] nfsd: add link to owner cache detail to svc\_export structure  
 Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:08 GMT  
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Without info about owner cache detail it won't be able to find out, which  
 per-net cache detail have to be.

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```

---
fs/nfsd/export.c      | 10 ++++++-----
include/linux/nfsd/export.h | 1 +
2 files changed, 6 insertions(+), 5 deletions(-)

diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index 71c5ce3..99ea4c0 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -525,6 +525,7 @@ static int svc_export_parse(struct cache_detail *cd, char *mesg, int mlen)
    goto out1;

    exp.ex_client = dom;
+   exp.cd = cd;

    /* expiry */
    err = -EINVAL;
@@ -672,6 +673,7 @@ static void svc_export_init(struct cache_head *cnew, struct cache_head
*citem)
    new->ex_fslocs.locations = NULL;
    new->ex_fslocs.locations_count = 0;
    new->ex_fslocs.migrated = 0;
+   new->cd = item->cd;
}

```

```

static void export_update(struct cache_head *cnew, struct cache_head *citem)
@@ -739,8 +741,7 @@ svc_export_lookup(struct svc_export *exp)
    struct cache_head *ch;
    int hash = svc_export_hash(exp);

- ch = sunrpc_cache_lookup(&svc_export_cache, &exp->h,
-    hash);
+ ch = sunrpc_cache_lookup(exp->cd, &exp->h, hash);
    if (ch)
        return container_of(ch, struct svc_export, h);
    else
@@ -753,9 +754,7 @@ svc_export_update(struct svc_export *new, struct svc_export *old)
    struct cache_head *ch;
    int hash = svc_export_hash(old);

- ch = sunrpc_cache_update(&svc_export_cache, &new->h,
-    &old->h,
-    hash);
+ ch = sunrpc_cache_update(old->cd, &new->h, &old->h, hash);
    if (ch)
        return container_of(ch, struct svc_export, h);
    else
@@ -797,6 +796,7 @@ static svc_export *exp_get_by_name(svc_client *clp, const struct path
*path,

    key.ex_client = clp;
    key.ex_path = *path;
+ key.cd = &svc_export_cache;

    exp = svc_export_lookup(&key);
    if (exp == NULL)
diff --git a/include/linux/nfsd/export.h b/include/linux/nfsd/export.h
index f85308e..6445529 100644
--- a/include/linux/nfsd/export.h
+++ b/include/linux/nfsd/export.h
@@ -103,6 +103,7 @@ struct svc_export {
    struct nfsd4_fs_locations ex_fslocs;
    int ex_nflavors;
    struct exp_flavor_info ex_flavors[MAX_SECINFO_LIST];
+ struct cache_detail *cd;
};

/* an "export key" (expkey) maps a filehandle/fragment to an

```

---

Subject: [PATCH 3/8] nfsd: use cache detail pointer from svc\_export structure on

cache put

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

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Hard-coded pointer is redundant now and can be replaced.

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---

include/linux/nfsd/export.h | 2 +-  
1 files changed, 1 insertions(+), 1 deletions(-)

```
diff --git a/include/linux/nfsd/export.h b/include/linux/nfsd/export.h
index 6445529..485c2af 100644
--- a/include/linux/nfsd/export.h
+++ b/include/linux/nfsd/export.h
@@ -147,7 +147,7 @@ extern struct cache_detail svc_export_cache;
```

```
static inline void exp_put(struct svc_export *exp)
{
- cache_put(&exp->h, &svc_export_cache);
+ cache_put(&exp->h, exp->cd);
}
```

```
static inline void exp_get(struct svc_export *exp)
```

---

---

Subject: [PATCH 4/8] nfsd: use exp\_put() for svc\_export\_cache put

Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:22 GMT

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This patch replaces cache\_put() call for svc\_export\_cache by exp\_put() call.

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---

fs/nfsd/export.c | 2 +-  
fs/nfsd/nfsfh.c | 2 +-  
2 files changed, 2 insertions(+), 2 deletions(-)

```
diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index 99ea4c0..c20a405 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
```

```

@@ -1205,7 +1205,7 @@ static int e_show(struct seq_file *m, void *p)
    cache_get(&exp->h);
    if (cache_check(&svc_export_cache, &exp->h, NULL))
        return 0;
- cache_put(&exp->h, &svc_export_cache);
+ exp_put(exp);
    return svc_export_show(m, &svc_export_cache, cp);
}

```

```

diff --git a/fs/nfsd/nfsfh.c b/fs/nfsd/nfsfh.c
index 68454e7..cc79300 100644
--- a/fs/nfsd/nfsfh.c
+++ b/fs/nfsd/nfsfh.c
@@ -636,7 +636,7 @@ fh_put(struct svc_fh *fhp)
#endif
}
if (exp) {
- cache_put(&exp->h, &svc_export_cache);
+ exp_put(exp);
    fhp->fh_export = NULL;
}
return;

```

---

Subject: [PATCH 5/8] nfsd: pass svc\_export\_cache pointer as private data to  
 &quot;exports&quot;; seq f  
 Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:29 GMT  
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---

Global svc\_export\_cache cache is going to be replaced with per-net instance. So  
 prepare the ground for it.

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```

---
fs/nfsd/export.c | 18 ++++++++-----
fs/nfsd/nfsctl.c | 11 ++++++++--
2 files changed, 21 insertions(+), 8 deletions(-)

```

```

diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index c20a405..1495320 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -1029,13 +1029,14 @@ exp_pseudoroot(struct svc_rqst *rqstp, struct svc_fh *fhp)
/* Iterator */

```

```

static void *e_start(struct seq_file *m, loff_t *pos)
- __acquires(svc_export_cache.hash_lock)
+ __acquires(((struct cache_detail *)m->private)->hash_lock)
{
    loff_t n = *pos;
    unsigned hash, export;
    struct cache_head *ch;
-
- read_lock(&svc_export_cache.hash_lock);
+ struct cache_detail *cd = m->private;
+
+ read_lock(&cd->hash_lock);
    if (!n--)
        return SEQ_START_TOKEN;
    hash = n >> 32;
@@ -1082,9 +1083,11 @@ static void *e_next(struct seq_file *m, void *p, loff_t *pos)
}

```

```

static void e_stop(struct seq_file *m, void *p)
- __releases(svc_export_cache.hash_lock)
+ __releases(((struct cache_detail *)m->private)->hash_lock)
{
- read_unlock(&svc_export_cache.hash_lock);
+ struct cache_detail *cd = m->private;
+
+ read_unlock(&cd->hash_lock);
}

```

```

static struct flags {
@@ -1195,6 +1198,7 @@ static int e_show(struct seq_file *m, void *p)
{
    struct cache_head *cp = p;
    struct svc_export *exp = container_of(cp, struct svc_export, h);
+ struct cache_detail *cd = m->private;

    if (p == SEQ_START_TOKEN) {
        seq_puts(m, "# Version 1.1\n");
@@ -1203,10 +1207,10 @@ static int e_show(struct seq_file *m, void *p)
}

```

```

    cache_get(&exp->h);
- if (cache_check(&svc_export_cache, &exp->h, NULL))
+ if (cache_check(cd, &exp->h, NULL))
    return 0;
    exp_put(exp);
- return svc_export_show(m, &svc_export_cache, cp);
+ return svc_export_show(m, cd, cp);
}

```

```

const struct seq_operations nfs_exports_op = {
diff --git a/fs/nfsd/nfsctl.c b/fs/nfsd/nfsctl.c
index dee6c1b..9bc6f8c 100644
--- a/fs/nfsd/nfsctl.c
+++ b/fs/nfsd/nfsctl.c
@@ -127,7 +127,16 @@ static const struct file_operations transaction_ops = {

static int exports_open(struct inode *inode, struct file *file)
{
- return seq_open(file, &nfs_exports_op);
+ int err;
+ struct seq_file *seq;
+
+ err = seq_open(file, &nfs_exports_op);
+ if (err)
+ return err;
+
+ seq = file->private_data;
+ seq->private = &svc_export_cache;
+ return 0;
}

static const struct file_operations exports_operations = {

```

---

Subject: [PATCH 6/8] nfsd: use hash table from cache detail in nfsd export seq ops  
Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:35 GMT  
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---

Hard-code is redundant and will prevent from making caches per net ns.

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---

```

fs/nfsd/export.c | 3 +++
1 files changed, 3 insertions(+), 0 deletions(-)

```

```

diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index 1495320..9fe7156 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -1035,6 +1035,7 @@ static void *e_start(struct seq_file *m, loff_t *pos)
unsigned hash, export;
struct cache_head *ch;
struct cache_detail *cd = m->private;

```

```

+ struct cache_head **export_table = cd->hash_table;

    read_lock(&cd->hash_lock);
    if (!n--)
@@ -1061,6 +1062,8 @@ static void *e_next(struct seq_file *m, void *p, loff_t *pos)
{
    struct cache_head *ch = p;
    int hash = (*pos >> 32);
+ struct cache_detail *cd = m->private;
+ struct cache_head **export_table = cd->hash_table;

    if (p == SEQ_START_TOKEN)
        hash = 0;

```

---

Subject: [PATCH 7/8] nfsd: pass pointer to export cache down to stack wherever possible.

Posted by [Stanislav Kinsbursky](#) on Wed, 28 Mar 2012 15:09:42 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 | 37 ++++++-----
1 files changed, 22 insertions(+), 15 deletions(-)

diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
index 9fe7156..c237b0a 100644
--- a/fs/nfsd/export.c
+++ b/fs/nfsd/export.c
@@ -785,8 +785,8 @@ exp_find_key(svc_client *clp, int fsid_type, u32 *fsidv, struct cache_req
 *reqp)
{
- static svc_export *exp_get_by_name(svc_client *clp, const struct path *path,
-     struct cache_req *reqp)
+ static svc_export *exp_get_by_name(struct cache_detail *cd, svc_client *clp,
+     const struct path *path, struct cache_req *reqp)
{
    struct svc_export *exp, key;
    int err;

```



```

@@ -796,12 +796,12 @@ static svc_export *exp_get_by_name(svc_client *clp, const struct path
*path,

    key.ex_client = clp;
    key.ex_path = *path;
- key.cd = &svc_export_cache;
+ key.cd = cd;

    exp = svc_export_lookup(&key);
    if (exp == NULL)
        return ERR_PTR(-ENOMEM);
- err = cache_check(&svc_export_cache, &exp->h, reqp);
+ err = cache_check(cd, &exp->h, reqp);
    if (err)
        return ERR_PTR(err);
    return exp;
@@ -810,16 +810,17 @@ static svc_export *exp_get_by_name(svc_client *clp, const struct path
*path,
/*
 * Find the export entry for a given dentry.
 */
-static struct svc_export *exp_parent(svc_client *clp, struct path *path)
+static struct svc_export *exp_parent(struct cache_detail *cd, svc_client *clp,
+    struct path *path)
{
    struct dentry *saved = dget(path->dentry);
- svc_export *exp = exp_get_by_name(clp, path, NULL);
+ svc_export *exp = exp_get_by_name(cd, clp, path, NULL);

    while (PTR_ERR(exp) == -ENOENT && !IS_ROOT(path->dentry)) {
        struct dentry *parent = dget_parent(path->dentry);
        dput(path->dentry);
        path->dentry = parent;
- exp = exp_get_by_name(clp, path, NULL);
+ exp = exp_get_by_name(cd, clp, path, NULL);
    }
    dput(path->dentry);
    path->dentry = saved;
@@ -834,13 +835,15 @@ static struct svc_export *exp_parent(svc_client *clp, struct path *path)
 * since its harder to fool a kernel module than a user space program.
 */
int
-exp_rootfh(svc_client *clp, char *name, struct knfsd_fh *f, int maxsize)
+exp_rootfh(svc_client *clp, char *name,
+    struct knfsd_fh *f, int maxsize)
{
    struct svc_export *exp;
    struct path path;

```

```

struct inode *inode;
struct svc_fh fh;
int err;
+ struct cache_detail *cd = &svc_export_cache;

err = -EPERM;
/* NB: we probably ought to check that it's NUL-terminated */
@@ -853,7 +856,7 @@ exp_rootfh(svc_client *clp, char *name, struct knfsd_fh *f, int maxsize)
    dprintk("nfsd: exp_rootfh(%s [%p] %s:%s/%ld)\n",
        name, path.dentry, clp->name,
        inode->i_sb->s_id, inode->i_ino);
- exp = exp_parent(clp, &path);
+ exp = exp_parent(cd, clp, &path);
    if (IS_ERR(exp)) {
        err = PTR_ERR(exp);
        goto out;
@@ -875,7 +878,8 @@ out:
    return err;
}

-static struct svc_export *exp_find(struct auth_domain *clp, int fsid_type,
+static struct svc_export *exp_find(struct cache_detail *cd,
+    struct auth_domain *clp, int fsid_type,
+    u32 *fsidv, struct cache_req *reqp)
{
    struct svc_export *exp;
@@ -883,7 +887,7 @@ static struct svc_export *exp_find(struct auth_domain *clp, int fsid_type,
    if (IS_ERR(ek))
        return ERR_CAST(ek);

- exp = exp_get_by_name(clp, &ek->ek_path, reqp);
+ exp = exp_get_by_name(cd, clp, &ek->ek_path, reqp);
    cache_put(&ek->h, &svc_expkey_cache);

    if (IS_ERR(exp))
@@ -926,12 +930,13 @@ struct svc_export *
rqst_exp_get_by_name(struct svc_rqst *rqstp, struct path *path)
{
    struct svc_export *gssexp, *exp = ERR_PTR(-ENOENT);
+ struct cache_detail *cd = &svc_export_cache;

    if (rqstp->rq_client == NULL)
        goto gss;

    /* First try the auth_unix client: */
- exp = exp_get_by_name(rqstp->rq_client, path, &rqstp->rq_chandle);
+ exp = exp_get_by_name(cd, rqstp->rq_client, path, &rqstp->rq_chandle);
    if (PTR_ERR(exp) == -ENOENT)

```

```

    goto gss;
    if (IS_ERR(exp))
@@ -943,7 +948,7 @@ gss:
    /* Otherwise, try falling back on gss client */
    if (rqstp->rq_gssclient == NULL)
        return exp;
- gssexp = exp_get_by_name(rqstp->rq_gssclient, path, &rqstp->rq_chandle);
+ gssexp = exp_get_by_name(cd, rqstp->rq_gssclient, path, &rqstp->rq_chandle);
    if (PTR_ERR(gssexp) == -ENOENT)
        return exp;
    if (!IS_ERR(exp))
@@ -955,12 +960,14 @@ struct svc_export *
    rqst_exp_find(struct svc_rqst *rqstp, int fsid_type, u32 *fsidv)
{
    struct svc_export *gssexp, *exp = ERR_PTR(-ENOENT);
+ struct cache_detail *cd = &svc_export_cache;

    if (rqstp->rq_client == NULL)
        goto gss;

    /* First try the auth_unix client: */
- exp = exp_find(rqstp->rq_client, fsid_type, fsidv, &rqstp->rq_chandle);
+ exp = exp_find(cd, rqstp->rq_client, fsid_type,
+ fsidv, &rqstp->rq_chandle);
    if (PTR_ERR(exp) == -ENOENT)
        goto gss;
    if (IS_ERR(exp))
@@ -972,7 +979,7 @@ gss:
    /* Otherwise, try falling back on gss client */
    if (rqstp->rq_gssclient == NULL)
        return exp;
- gssexp = exp_find(rqstp->rq_gssclient, fsid_type, fsidv,
+ gssexp = exp_find(cd, rqstp->rq_gssclient, fsid_type, fsidv,
    &rqstp->rq_chandle);
    if (PTR_ERR(gssexp) == -ENOENT)
        return exp;

```

---

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);
+ 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)

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);

```

---

Subject: Re: [PATCH 0/8] NFSd: precursor and cleanup patch set

Posted by [bfields](#) on Thu, 29 Mar 2012 14:32:18 GMT

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On Wed, Mar 28, 2012 at 07:08:53PM +0400, Stanislav Kinsbursky wrote:

```

> This patch set prepares ground for making NFSd export and expkey caches
> allocated and registered per network namespace context.
> Mainly, it just replaces hard-coded pointers with dereferenced everywhere
> required.

```

Thanks. I'll be travelling next week and may not get to look at this till I get back.

--b.

```

>
> The following series consists of:
>
> ---
>
> Stanislav Kinsbursky (8):
>   nfsd: use passed cache_detail pointer expkey_parse()
>   nfsd: add link to owner cache detail to svc_export structure
>   nfsd: use cache detail pointer from svc_export structure on cache put
>   nfsd: use exp_put() for svc_export_cache put
>   nfsd: pass svc_export_cache pointer as private data to "exports" seq file ops

```

> nfsd: use hash table from cache detail in nfsd export seq ops  
> nfsd: pass pointer to export cache down to stack wherever possible.  
> nfsd: pass pointer to expkey cache down to stack wherever possible.  
>  
>  
> fs/nfsd/export.c | 102 ++++++-----  
> fs/nfsd/nfsctl.c | 11 +++-  
> fs/nfsd/nfsfh.c | 2 -  
> include/linux/nfsd/export.h | 3 +  
> 4 files changed, 71 insertions(+), 47 deletions(-)  
>

---

---

Subject: Re: [PATCH 0/8] NFSd: precursor and cleanup patch set  
Posted by [Stanislav Kinsbursky](#) on Thu, 29 Mar 2012 15:36:39 GMT  
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> On Wed, Mar 28, 2012 at 07:08:53PM +0400, Stanislav Kinsbursky wrote:  
>> This patch set prepares ground for making NFSd export and expkey caches  
>> allocated and registered per network namespace context.  
>> Mainly, it just replaces hard-coded pointers with dereferenced everywhere  
>> required.  
>  
> Thanks. I'll be travelling next week and may not get to look at this  
> till I get back.  
>

Yep, sure. No rush here...

--  
Best regards,  
Stanislav Kinsbursky

---

---

Subject: Re: [PATCH 4/8] nfsd: use exp\_put() for svc\_export\_cache put  
Posted by [bfields](#) on Wed, 11 Apr 2012 14:16:14 GMT  
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On Wed, Mar 28, 2012 at 07:09:22PM +0400, Stanislav Kinsbursky wrote:  
> This patch replaces cache\_put() call for svc\_export\_cache by exp\_put() call.

Patch looks fine. Minor peeve: the changelog doesn't tell me anything I couldn't figure out immediately from reading the patch. Tell me *\*why\** we're doing this ("Removing another hard-coded svc\_export\_cache will simplify adding per-export caches later"), or if it's really totally obvious I'd rather have an empty changelog than a useless one....

--b.

```
>
> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>
>
> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>
>
> ---
> fs/nfsd/export.c | 2 +-
> fs/nfsd/nfsfh.c | 2 +-
> 2 files changed, 2 insertions(+), 2 deletions(-)
>
> diff --git a/fs/nfsd/export.c b/fs/nfsd/export.c
> index 99ea4c0..c20a405 100644
> --- a/fs/nfsd/export.c
> +++ b/fs/nfsd/export.c
> @@ -1205,7 +1205,7 @@ static int e_show(struct seq_file *m, void *p)
>  cache_get(&exp->h);
>  if (cache_check(&svc_export_cache, &exp->h, NULL))
>  return 0;
> - cache_put(&exp->h, &svc_export_cache);
> + exp_put(exp);
>  return svc_export_show(m, &svc_export_cache, cp);
> }
>
> diff --git a/fs/nfsd/nfsfh.c b/fs/nfsd/nfsfh.c
> index 68454e7..cc79300 100644
> --- a/fs/nfsd/nfsfh.c
> +++ b/fs/nfsd/nfsfh.c
> @@ -636,7 +636,7 @@ fh_put(struct svc_fh *fhp)
>  #endif
>  }
>  if (exp) {
>  - cache_put(&exp->h, &svc_export_cache);
>  + exp_put(exp);
>  fhp->fh_export = NULL;
>  }
>  return;
```

---

Subject: Re: [PATCH 4/8] nfsd: use exp\_put() for svc\_export\_cache put  
Posted by [Stanislav Kinsbursky](#) on Wed, 11 Apr 2012 14:41:39 GMT  
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> On Wed, Mar 28, 2012 at 07:09:22PM +0400, Stanislav Kinsbursky wrote:



>> This patch replaces cache\_put() call for svc\_export\_cache by exp\_put() call.  
>  
> Patch looks fine. Minor peeve: the changelog doesn't tell me anything I  
> couldn't figure out immediately from reading the patch. Tell me \*why\*  
> we're doing this ("Removing another hard-coded svc\_export\_cache will  
> simplify adding per-export caches later"), or if it's really totally  
> obvious I'd rather have an empty changelog than a useless one....  
>

Ok, will do so for further patches.

--

Best regards,  
Stanislav Kinsbursky

---

---

Subject: Re: [PATCH 0/8] NFSd: precursor and cleanup patch set  
Posted by [bfields](#) on Wed, 11 Apr 2012 16:05:23 GMT

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---

On Wed, Mar 28, 2012 at 07:08:53PM +0400, Stanislav Kinsbursky wrote:

> This patch set prepares ground for making NFSd export and expkey caches  
> allocated and registered per network namespace context.  
> Mainly, it just replaces hard-coded pointers with dereferenced everywhere  
> required.  
>  
> The following series consists of:

OK, thanks, applying these all pending some testing. I'll try to get a  
for-3.5 branch with this pushed out later today or tomorrow.

--b.

---

---

Subject: Re: [PATCH 0/8] NFSd: precursor and cleanup patch set  
Posted by [Stanislav Kinsbursky](#) on Wed, 11 Apr 2012 16:06:00 GMT

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> On Wed, Mar 28, 2012 at 07:08:53PM +0400, Stanislav Kinsbursky wrote:  
>> This patch set prepares ground for making NFSd export and expkey caches  
>> allocated and registered per network namespace context.  
>> Mainly, it just replaces hard-coded pointers with dereferenced everywhere  
>> required.  
>>  
>> The following series consists of:  
>

> OK, thanks, applying these all pending some testing. I'll try to get a  
> for-3.5 branch with this pushed out later today or tomorrow.  
>

Ok, thanks, Bruce.

--

Best regards,  
Stanislav Kinsbursky

---