
Subject: [PATCH] Reduce uidhash lock hold time when lookup succeeds

Posted by [Matt Helsley](#) on Thu, 17 Feb 2011 23:52:53 GMT

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When lookup succeeds we don't need the "new" user struct which hasn't been linked into the uidhash. So we can immediately drop the lock and then free "new" rather than free it with the lock held.

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kernel/user.c | 12 ++++++-----

1 files changed, 7 insertions(+), 5 deletions(-)

diff --git a/kernel/user.c b/kernel/user.c

index 5c598ca..4ea8e58 100644

--- a/kernel/user.c

+++ b/kernel/user.c

@@ -157,16 +157,18 @@ struct user_struct *alloc_uid(struct user_namespace *ns, uid_t uid)

```
    */
    spin_lock_irq(&uidhash_lock);
    up = uid_hash_find(uid, hashent);
-   if (up) {
+   if (!up) {
+       uid_hash_insert(new, hashent);
+       up = new;
+   }
+   spin_unlock_irq(&uidhash_lock);
+
+   if (up != new) {
+       put_user_ns(ns);
+       key_put(new->uid_keyring);
+       key_put(new->session_keyring);
+       kmem_cache_free(uid_cachep, new);
-   } else {
-       uid_hash_insert(new, hashent);
-       up = new;
-   }
-   spin_unlock_irq(&uidhash_lock);
}
```

return up;

--

1.6.3.3

Containers mailing list
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