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Subject: [RFC][PATCH 1/5]: Rename namespaces functions  
Posted by [Sukadev Bhattiprolu](#) on Sat, 10 Mar 2007 04:01:34 GMT  
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>  
Subject: [RFC][PATCH 1/5]: Rename namespaces functions

We want to treat pid namespace differently from other namespaces  
and want to move pid\_namespace out of struct nsproxy.

So rename the \*namespaces() functions to \*nsproxy() to reflect  
that they only operate on the nsproxy and not on all namespaces.

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---  
include/linux/nsproxy.h | 4 ++--  
kernel/fork.c | 4 ++--  
kernel/nsproxy.c | 12 ++++++-----  
3 files changed, 10 insertions(+), 10 deletions(-)

Index: lx26-20-mm2b/include/linux/nsproxy.h

```
=====
--- lx26-20-mm2b.orig/include/linux/nsproxy.h 2007-03-09 19:00:12.000000000 -0800
+++ lx26-20-mm2b/include/linux/nsproxy.h 2007-03-09 19:00:14.000000000 -0800
@@ -31,8 +31,8 @@ struct nsproxy {
};
extern struct nsproxy init_nsproxy;
```

```
-struct nsproxy *dup_namespaces(struct nsproxy *orig);
-int copy_namespaces(int flags, struct task_struct *tsk);
+struct nsproxy *dup_nsproxy(struct nsproxy *orig);
+int copy_nsproxy(int flags, struct task_struct *tsk);
void get_task_namespaces(struct task_struct *tsk);
void free_nsproxy(struct nsproxy *ns);
```

Index: lx26-20-mm2b/kernel/fork.c

```
=====
--- lx26-20-mm2b.orig/kernel/fork.c 2007-03-09 19:00:12.000000000 -0800
+++ lx26-20-mm2b/kernel/fork.c 2007-03-09 19:00:14.000000000 -0800
@@ -1134,7 +1134,7 @@ static struct task_struct *copy_process(
    goto bad_fork_cleanup_signal;
    if ((retval = copy_keys(clone_flags, p)))
    goto bad_fork_cleanup_mm;
```

```
- if ((retval = copy_namespaces(clone_flags, p)))
+ if ((retval = copy_nsproxy(clone_flags, p)))
    goto bad_fork_cleanup_keys;
    retval = copy_thread(0, clone_flags, stack_start, stack_size, p, regs);
    if (retval)
@@ -1644,7 +1644,7 @@ asmlinkage long sys_unshare(unsigned lon
```

```
    if (new_ns || new_uts || new_ipc || new_pid_nr) {
        old_nsproxy = current->nsproxy;
- new_nsproxy = dup_namespaces(old_nsproxy);
+ new_nsproxy = dup_nsproxy(old_nsproxy);
        if (!new_nsproxy) {
            err = -ENOMEM;
            goto bad_unshare_cleanup_pid;
Index: lx26-20-mm2b/kernel/nsproxy.c
```

```
=====
```

```
--- lx26-20-mm2b.orig/kernel/nsproxy.c 2007-03-09 19:00:12.000000000 -0800
```

```
+++ lx26-20-mm2b/kernel/nsproxy.c 2007-03-09 19:00:14.000000000 -0800
```

```
@ @ -39,9 +39,9 @ @ void get_task_namespaces(struct task_str
```

```
/*
 * creates a copy of "orig" with refcount 1.
 * This does not grab references to the contained namespaces,
- * so that needs to be done by dup_namespaces.
+ * so that needs to be done by dup_nsproxy.
 */
```

```
-static inline struct nsproxy *clone_namespaces(struct nsproxy *orig)
```

```
+static inline struct nsproxy *clone_nsproxy(struct nsproxy *orig)
```

```
{
    struct nsproxy *ns;
```

```
@ @ -56,9 +56,9 @ @ static inline struct nsproxy *clone_name
```

```
 * reference to all contained namespaces. Called from
 * sys_unshare()
 */
```

```
-struct nsproxy *dup_namespaces(struct nsproxy *orig)
```

```
+struct nsproxy *dup_nsproxy(struct nsproxy *orig)
```

```
{
- struct nsproxy *ns = clone_namespaces(orig);
+ struct nsproxy *ns = clone_nsproxy(orig);
```

```
    if (ns) {
        if (ns->mnt_ns)
```

```
@ @ -78,7 +78,7 @ @ struct nsproxy *dup_namespaces(struct ns
```

```
 * called from clone. This now handles copy for nsproxy and all
 * namespaces therein.
 */
```

```
-int copy_namespaces(int flags, struct task_struct *tsk)
```

```
+int copy_nsproxy(int flags, struct task_struct *tsk)
```

```
{
    struct nsproxy *old_ns = tsk->nsproxy;
    struct nsproxy *new_ns;
@@ -95,7 +95,7 @@ int copy_namespaces(int flags, struct ta
    if (!(flags & ns_all))
        return 0;

- new_ns = clone_namespaces(old_ns);
+ new_ns = clone_nsproxy(old_ns);
    if (!new_ns) {
        err = -ENOMEM;
        goto out;
    }
}
```

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Containers mailing list

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<https://lists.osdl.org/mailman/listinfo/containers>

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