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Subject: [RFC][PATCH 01/14] Define/use task\_pid\_ns() wrapper  
Posted by [Sukadev Bhattiprolu](#) on Wed, 21 Mar 2007 03:11:21 GMT  
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>  
Subject: [RFC][PATCH 01/14] Define/use task\_pid\_ns() wrapper

Use a wrapper to access/set pid\_namespace of a task.

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

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```
fs/exec.c          |  2 ++
fs/proc/proc_misc.c |  2 ++
include/linux/pid_namespace.h |  5 +++++
kernel/exit.c      |  4 +---
kernel/pid.c       |  4 +--
5 files changed, 11 insertions(+), 6 deletions(-)
```

Index: 2.6.21-rc3-mm2/fs/exec.c

```
=====
--- 2.6.21-rc3-mm2.orig/fs/exec.c
+++ 2.6.21-rc3-mm2/fs/exec.c
@@ -620,7 +620,7 @@ static int de_thread(struct task_struct
 * so it is safe to do it under read_lock.
 */
if (unlikely(tsk->group_leader == child_reaper(tsk)))
- tsk->nproxy->pid_ns->child_reaper = tsk;
+ task_pid_ns(tsk)->child_reaper = tsk;
```

```
zap_other_threads(tsk);
read_unlock(&tasklist_lock);
```

Index: 2.6.21-rc3-mm2/fs/proc/proc\_misc.c

```
=====
--- 2.6.21-rc3-mm2.orig/fs/proc/proc_misc.c
+++ 2.6.21-rc3-mm2/fs/proc/proc_misc.c
@@ -93,7 +93,7 @@ static int loadavg_read_proc(char *page,
    LOAD_INT(a), LOAD_FRAC(a),
    LOAD_INT(b), LOAD_FRAC(b),
    LOAD_INT(c), LOAD_FRAC(c),
- nr_running(), nr_threads, current->nproxy->pid_ns->last_pid);
+ nr_running(), nr_threads, task_pid_ns(current)->last_pid);
    return proc_calc_metrics(page, start, off, count, eof, len);
}
```

Index: 2.6.21-rc3-mm2/kernel/exit.c

```
=====
--- 2.6.21-rc3-mm2.orig/kernel/exit.c
+++ 2.6.21-rc3-mm2/kernel/exit.c
```

```
@@ -790,8 +790,8 @@ @@ fastcall NORET_TYPE void do_exit(long co
 if (unlikely(!tsk->pid))
     panic("Attempted to kill the idle task!");
 if (unlikely(tsk == child_reaper(tsk))) {
- if (tsk->nsproxy->pid_ns != &init_pid_ns)
-     tsk->nsproxy->pid_ns->child_reaper = init_pid_ns.child_reaper;
+ if (task_pid_ns(tsk) != &init_pid_ns)
+     task_pid_ns(tsk)->child_reaper = init_pid_ns.child_reaper;
     else
         panic("Attempted to kill init!");
 }
```

Index: 2.6.21-rc3-mm2/kernel/pid.c

```
=====
--- 2.6.21-rc3-mm2.orig/kernel/pid.c
+++ 2.6.21-rc3-mm2/kernel/pid.c
@@ -213,7 +213,7 @@ struct pid *alloc_pid(void)
 if (!pid)
     goto out;

- nr = alloc_pidmap(current->nsproxy->pid_ns);
+ nr = alloc_pidmap(task_pid_ns(current));
 if (nr < 0)
     goto out_free;
```

@@ -358,7 +358,7 @@ struct pid \*find\_ge\_pid(int nr)

```
    pid = find_pid(nr);
    if (pid)
        break;
- nr = next_pidmap(current->nsproxy->pid_ns, nr);
+ nr = next_pidmap(task_pid_ns(current), nr);
} while (nr > 0);
```

```
return pid;
```

Index: 2.6.21-rc3-mm2/include/linux/pid\_namespace.h

```
=====
--- 2.6.21-rc3-mm2.orig/include/linux/pid_namespace.h
+++ 2.6.21-rc3-mm2/include/linux/pid_namespace.h
@@ -37,6 +37,11 @@ static inline void put_pid_ns(struct pid
    kref_put(&ns->kref, free_pid_ns);
}

+static inline struct pid_namespace *task_pid_ns(struct task_struct *tsk)
+{
+    return tsk->nsproxy->pid_ns;
+
+static inline struct task_struct *child_reaper(struct task_struct *tsk)
{
```

```
return init_pid_ns.child_reaper;
```

```
--
```

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