
Subject: [PATCH 7/13] Set virtual pids for a newly cloned task
Posted by [Pavel Emelianov](#) on Thu, 24 May 2007 12:53:23 GMT
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When new task is created it must have its virtual pids set.
When task belongs to init namespace the pids are equal to
global ones so it is safe to get vpid from any task.

This is the place where we export pids to use space and there
will be a patch for these cases, but this case is special and
thus goes separately.

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```
diff --git a/kernel/fork.c b/kernel/fork.c
index d7207a1..3ab517c 100644
--- a/kernel/fork.c
+++ b/kernel/fork.c
@@ -1026,6 +1026,7 @@ static struct task_struct *copy_process(
    delayacct_tsk_init(p); /* Must remain after dup_task_struct() */
    copy_flags(clone_flags, p);
    p->pid = pid_nr(pid);
+ set_task_vpid(p, pid_vnr(pid));
    INIT_LIST_HEAD(&p->children);
    INIT_LIST_HEAD(&p->sibling);
    p->vfork_done = NULL;
@@ -1101,8 +1102,11 @@ static struct task_struct *copy_process(
#endif

    p->tgid = p->pid;
- if (clone_flags & CLONE_THREAD)
+ set_task_vtgid(p, task_pid_vnr(p));
+ if (clone_flags & CLONE_THREAD) {
    p->tgid = current->tgid;
+ set_task_vtgid(p, task_pid_vnr(current));
+ }

    if ((retval = security_task_alloc(p)))
        goto bad_fork_cleanup_policy;
@@ -1251,6 +1255,8 @@ static struct task_struct *copy_process(
    p->signal->tty = current->signal->tty;
    p->signal->pgrp = task_pgrp_nr(current);
    set_task_session(p, task_session_nr(current));
+ set_task_vpgrp(p, task_pgrp_vnr(current));
+ set_task_vsession(p, task_session_vnr(current));
    attach_pid(p, PIDTYPE_PGID, task_pgrp(current));
```

```

attach_pid(p, PIDTYPE_SID, task_session(current));

@@ -1270,7 +1276,7 @@ static struct task_struct *copy_process(
    * TID. It's too late to back out if this fails.
    */
    if (clone_flags & CLONE_PARENT_SETTID)
-   put_user(p->pid, parent_tidptr);
+   put_user(task_pid_vnr(p), parent_tidptr);

    proc_fork_connector(p);
    return p;
@@ -1372,7 +1378,7 @@ long do_fork(unsigned long clone_flags,

    if (!pid)
        return -EAGAIN;
-   nr = pid->nr;
+   nr = pid_vnr(pid);
    if (unlikely(current->ptrace)) {
        trace = fork_traceflag (clone_flags);
        if (trace)

```
