
Subject: [PATCH] Use struct pid parameter in copy_process()
Posted by [Sukadev Bhattiprolu](#) on Thu, 22 Feb 2007 23:29:58 GMT
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
Subject: [PATCH] Use struct pid parameter in copy_process()

Modify copy_process() to take a struct pid * parameter instead of a pid_t.
This simplifies the code a bit and also avoids having to call find_pid()
to convert the pid_t to a struct pid.

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kernel/fork.c | 39 ++++++-----
1 file changed, 19 insertions(+), 20 deletions(-)

Index: lx26-20-mm1/kernel/fork.c

```
=====
--- lx26-20-mm1.orig/kernel/fork.c 2007-02-20 14:03:17.000000000 -0800
+++ lx26-20-mm1/kernel/fork.c 2007-02-20 14:22:00.000000000 -0800
@@ -965,7 +965,7 @@ static struct task_struct *copy_process(
     unsigned long stack_size,
     int __user *parent_tidptr,
     int __user *child_tidptr,
-    int pid)
+    struct pid *spid)
 {
     int retval;
     struct task_struct *p = NULL;
@@ -1032,7 +1032,7 @@ static struct task_struct *copy_process(
     p->did_exec = 0;
     delayacct_tsk_init(p); /* Must remain after dup_task_struct() */
     copy_flags(clone_flags, p);
-    p->pid = pid;
+    p->pid = pid_nr(spid);

     INIT_LIST_HEAD(&p->children);
     INIT_LIST_HEAD(&p->sibling);
@@ -1248,24 +1248,22 @@ static struct task_struct *copy_process(
 }
 }

- if (likely(p->pid)) {
```

```

- add_parent(p);
- tracehook_init_task(p);
-
- if (thread_group_leader(p)) {
- p->signal->tty = current->signal->tty;
- p->signal->pgrp = pid_nr(task_pgrp(current));
- set_signal_session(p->signal,
-   pid_nr(task_session(current)));
- attach_pid(p, PIDTYPE_PGID, task_pgrp(current));
- attach_pid(p, PIDTYPE_SID, task_session(current));
+ add_parent(p);
+ tracehook_init_task(p);

- list_add_tail_rcu(&p->tasks, &init_task.tasks);
- __get_cpu_var(process_counts)++;
- }
- attach_pid(p, PIDTYPE_PID, find_pid(p->pid));
- nr_threads++;
+ if (thread_group_leader(p)) {
+ p->signal->tty = current->signal->tty;
+ p->signal->pgrp = pid_nr(task_pgrp(current));
+ set_signal_session(p->signal,
+   pid_nr(task_session(current)));
+ attach_pid(p, PIDTYPE_PGID, task_pgrp(current));
+ attach_pid(p, PIDTYPE_SID, task_session(current));
+
+ list_add_tail_rcu(&p->tasks, &init_task.tasks);
+ __get_cpu_var(process_counts)++;
+ }
+ attach_pid(p, PIDTYPE_PID, spid);
+ nr_threads++;

total_forks++;
spin_unlock(&current->sigand->siglock);
@@ -1334,7 +1332,8 @@ struct task_struct * __cpuinit fork_idle
struct task_struct *task;
struct pt_regs regs;

- task = copy_process(CLONE_VM, 0, idle_regs(&regs), 0, NULL, NULL, 0);
+ task = copy_process(CLONE_VM, 0, idle_regs(&regs), 0, NULL, NULL,
+   &init_struct_pid);
if (!IS_ERR(task))
init_idle(task, cpu);

@@ -1362,7 +1361,7 @@ long do_fork(unsigned long clone_flags,
return -EAGAIN;
nr = pid->nr;

```

```
- p = copy_process(clone_flags, stack_start, regs, stack_size, parent_tidptr, child_tidptr, nr);  
+ p = copy_process(clone_flags, stack_start, regs, stack_size, parent_tidptr, child_tidptr, pid);  
/*  
 * Do this prior waking up the new thread - the thread pointer  
 * might get invalid after that point, if the thread exits quickly.
```

Containers mailing list

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