
Subject: + rename-attach_pid-to-find_attach_pid.patch added to -mm tree
Posted by [Andrew Morton](#) on Thu, 11 Jan 2007 21:13:04 GMT
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The patch titled
Rename attach_pid() to find_attach_pid()
has been added to the -mm tree. Its filename is
rename-attach_pid-to-find_attach_pid.patch

*** Remember to use Documentation/SubmitChecklist when testing your code ***

See <http://www.zip.com.au/~akpm/linux/patches/stuff/added-to-mm.txt> to find out what to do about this

Subject: Rename attach_pid() to find_attach_pid()
From: Sukadev Bhattiprolu <sukadev@us.ibm.com>

attach_pid() currently takes a pid_t parameter and uses find_pid() to find the struct pid associated with the pid_t. With containers, we sometimes already have the struct pid and could skip the find_pid() - if we have a version of attach_pid() that takes a struct pid parameter.

This patch renames the attach_pid() to find_attach_pid(). My next patch defines attach_pid() to take a struct pid.

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```
fs/exec.c      | 2 +-  
include/linux/pid.h | 4 ++--  
kernel/exit.c   | 4 ++--  
kernel/fork.c   | 6 +++---  
kernel/pid.c    | 3 ++-  
kernel/sys.c    | 2 +-  
6 files changed, 11 insertions(+), 10 deletions(-)
```

```
diff -puN fs/exec.c~rename-attach_pid-to-find_attach_pid fs/exec.c  
--- a/fs/exec.c~rename-attach_pid-to-find_attach_pid  
+++ a/fs/exec.c  
@@ -701,7 +701,7 @@ static int de_thread(struct task_struct  
    */  
    detach_pid(tsk, PIDTYPE_PID);
```

```

    tsk->pid = leader->pid;
-   attach_pid(tsk, PIDTYPE_PID, tsk->pid);
+   find_attach_pid(tsk, PIDTYPE_PID, tsk->pid);
    transfer_pid(leader, tsk, PIDTYPE_PGID);
    transfer_pid(leader, tsk, PIDTYPE_SID);
    list_replace_rcu(&leader->tasks, &tsk->tasks);
diff -puN include/linux/pid.h~rename-attach_pid-to-find_attach_pid include/linux/pid.h
--- a/include/linux/pid.h~rename-attach_pid-to-find_attach_pid
+++ a/include/linux/pid.h
@@ -72,10 +72,10 @@ extern struct task_struct *FASTCALL(get_
extern struct pid *get_task_pid(struct task_struct *task, enum pid_type type);

/*
- * attach_pid() and detach_pid() must be called with the tasklist_lock
+ * find_attach_pid() and detach_pid() must be called with the tasklist_lock
 * write-held.
 */
-extern int FASTCALL(attach_pid(struct task_struct *task,
+extern int FASTCALL(find_attach_pid(struct task_struct *task,
    enum pid_type type, int nr));

extern void FASTCALL(detach_pid(struct task_struct *task, enum pid_type));
diff -puN kernel/exit.c~rename-attach_pid-to-find_attach_pid kernel/exit.c
--- a/kernel/exit.c~rename-attach_pid-to-find_attach_pid
+++ a/kernel/exit.c
@@ -300,12 +300,12 @@ void __set_special_pids(pid_t session, p
    if (process_session(curr) != session) {
        detach_pid(curr, PIDTYPE_SID);
        set_signal_session(curr->signal, session);
-   attach_pid(curr, PIDTYPE_SID, session);
+   find_attach_pid(curr, PIDTYPE_SID, session);
    }
    if (process_group(curr) != pgrp) {
        detach_pid(curr, PIDTYPE_PGID);
        curr->signal->pgrp = pgrp;
-   attach_pid(curr, PIDTYPE_PGID, pgrp);
+   find_attach_pid(curr, PIDTYPE_PGID, pgrp);
    }
}

diff -puN kernel/fork.c~rename-attach_pid-to-find_attach_pid kernel/fork.c
--- a/kernel/fork.c~rename-attach_pid-to-find_attach_pid
+++ a/kernel/fork.c
@@ -1246,13 +1246,13 @@ static struct task_struct *copy_process(
    p->signal->tty = current->signal->tty;
    p->signal->pgrp = process_group(current);
    set_signal_session(p->signal, process_session(current));
-   attach_pid(p, PIDTYPE_PGID, process_group(p));

```

```
- attach_pid(p, PIDTYPE_SID, process_session(p));
+ find_attach_pid(p, PIDTYPE_PGID, process_group(p));
+ find_attach_pid(p, PIDTYPE_SID, process_session(p));
```

```
list_add_tail_rcu(&p->tasks, &init_task.tasks);
__get_cpu_var(process_counts)++;
}
- attach_pid(p, PIDTYPE_PID, p->pid);
+ find_attach_pid(p, PIDTYPE_PID, p->pid);
nr_threads++;
}
```

diff -puN kernel/pid.c~rename-attach_pid-to-find_attach_pid kernel/pid.c

--- a/kernel/pid.c~rename-attach_pid-to-find_attach_pid

+++ a/kernel/pid.c

```
@@ -247,7 +247,8 @@ struct pid * fastcall find_pid(int nr)
}
EXPORT_SYMBOL_GPL(find_pid);
```

```
-int fastcall attach_pid(struct task_struct *task, enum pid_type type, int nr)
+int fastcall find_attach_pid(struct task_struct *task, enum pid_type type,
+ int nr)
```

```
{
struct pid_link *link;
struct pid *pid;
```

diff -puN kernel/sys.c~rename-attach_pid-to-find_attach_pid kernel/sys.c

--- a/kernel/sys.c~rename-attach_pid-to-find_attach_pid

+++ a/kernel/sys.c

```
@@ -1481,7 +1481,7 @@ asmlinkage long sys_setpgid(pid_t pid, p
if (process_group(p) != pgid) {
detach_pid(p, PIDTYPE_PGID);
p->signal->pgrp = pgid;
- attach_pid(p, PIDTYPE_PGID, pgid);
+ find_attach_pid(p, PIDTYPE_PGID, pgid);
}
```

```
err = 0;
```

```
-
```

Patches currently in -mm which might be from sukadev@us.ibm.com are

rename-attach_pid-to-find_attach_pid.patch

attach_pid-with-struct-pid-parameter.patch

Containers mailing list

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