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Subject: - rename-attach\_pid-to-find\_attach\_pid.patch removed from -mm tree  
Posted by [Andrew Morton](#) on Thu, 01 Feb 2007 01:25:04 GMT  
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The patch titled

Rename attach\_pid() to find\_attach\_pid()  
has been removed from the -mm tree. Its filename was  
rename-attach\_pid-to-find\_attach\_pid.patch

This patch was dropped because an updated version will be merged

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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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Signed-off-by: Andrew Morton <akpm@osdl.org>

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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
@@ -1487,7 +1487,7 @@ 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
remove-find_attach_pid.patch
statically-initialize-struct-pid-for-swapper.patch
explicitly-set-pgid-sid-of-init.patch

```

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Containers mailing list  
Containers@lists.osdl.org  
<https://lists.osdl.org/mailman/listinfo/containers>

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