
Subject: - attach_pid-with-struct-pid-parameter.patch removed from -mm tree
Posted by [akpm](#) on Sat, 12 May 2007 05:34:25 GMT
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The patch titled
attach_pid() with struct pid parameter
has been removed from the -mm tree. Its filename was
attach_pid-with-struct-pid-parameter.patch

This patch was dropped because it was merged into mainline or a subsystem tree

Subject: attach_pid() with struct pid parameter
From: Sukadev Bhattiprolu <sukadev@us.ibm.com>

attach_pid() currently takes a pid_t and then uses find_pid() to find the corresponding struct pid. Sometimes we already have the struct pid. We can then skip find_pid() if attach_pid() were to take a struct pid parameter.

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```
fs/exec.c      | 2 +-  
include/linux/pid.h | 3 +--  
kernel/exit.c   | 4 +++--  
kernel/fork.c   | 11 ++++++----  
kernel/pid.c    | 9 ++++++----  
kernel/sys.c    | 2 +-  
6 files changed, 18 insertions(+), 13 deletions(-)
```

diff -puN fs/exec.c~attach_pid-with-struct-pid-parameter fs/exec.c

--- a/fs/exec.c~attach_pid-with-struct-pid-parameter

+++ a/fs/exec.c

@@ -702,7 +702,7 @@ static int de_thread(struct task_struct
*/

detach_pid(tsk, PIDTYPE_PID);

tsk->pid = leader->pid;

- attach_pid(tsk, PIDTYPE_PID, tsk->pid);

+ attach_pid(tsk, PIDTYPE_PID, find_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~attach_pid-with-struct-pid-parameter include/linux/pid.h

```

--- a/include/linux/pid.h~attach_pid-with-struct-pid-parameter
+++ a/include/linux/pid.h
@@ -76,8 +76,7 @@ extern struct pid *get_task_pid(struct t
 * write-held.
 */
extern int FASTCALL(attach_pid(struct task_struct *task,
- enum pid_type type, int nr));
-
+ enum pid_type type, struct pid *pid));
extern void FASTCALL(detach_pid(struct task_struct *task, enum pid_type));
extern void FASTCALL(transfer_pid(struct task_struct *old,
    struct task_struct *new, enum pid_type));
diff -puN kernel/exit.c~attach_pid-with-struct-pid-parameter kernel/exit.c
--- a/kernel/exit.c~attach_pid-with-struct-pid-parameter
+++ a/kernel/exit.c
@@ -302,12 +302,12 @@ 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);
+ attach_pid(curr, PIDTYPE_SID, find_pid(session));
 }
 if (process_group(curr) != pgrp) {
     detach_pid(curr, PIDTYPE_PGID);
     curr->signal->pgrp = pgrp;
- attach_pid(curr, PIDTYPE_PGID, pgrp);
+ attach_pid(curr, PIDTYPE_PGID, find_pid(pgrp));
 }
 }

diff -puN kernel/fork.c~attach_pid-with-struct-pid-parameter kernel/fork.c
--- a/kernel/fork.c~attach_pid-with-struct-pid-parameter
+++ a/kernel/fork.c
@@ -1249,16 +1249,19 @@ static struct task_struct *copy_process(
    __ptrace_link(p, current->parent);

    if (thread_group_leader(p)) {
+ pid_t pgid = process_group(current);
+ pid_t sid = process_session(current);
+
    p->signal->tty = current->signal->tty;
- p->signal->pgrp = process_group(current);
+ p->signal->pgrp = pgid;
    set_signal_session(p->signal, process_session(current));
- attach_pid(p, PIDTYPE_PGID, process_group(p));
- attach_pid(p, PIDTYPE_SID, process_session(p));
+ attach_pid(p, PIDTYPE_PGID, find_pid(pgid));
+ attach_pid(p, PIDTYPE_SID, find_pid(sid));
    }

```

```

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

```

```

diff -puN kernel/pid.c~attach_pid-with-struct-pid-parameter kernel/pid.c
--- a/kernel/pid.c~attach_pid-with-struct-pid-parameter
+++ a/kernel/pid.c
@@ -247,13 +247,16 @@ 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)
+/*
+ * attach_pid() must be called with the tasklist_lock write-held.
+ */
+int fastcall attach_pid(struct task_struct *task, enum pid_type type,
+ struct pid *pid)
{
    struct pid_link *link;
- struct pid *pid;

    link = &task->pids[type];
- link->pid = pid = find_pid(nr);
+ link->pid = pid;
    hlist_add_head_rcu(&link->node, &pid->tasks[type]);

```

```

    return 0;
diff -puN kernel/sys.c~attach_pid-with-struct-pid-parameter kernel/sys.c
--- a/kernel/sys.c~attach_pid-with-struct-pid-parameter
+++ a/kernel/sys.c
@@ -1488,7 +1488,7 @@ 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);
+ attach_pid(p, PIDTYPE_PGID, find_pid(pgid));
    }

```

```

    err = 0;

```

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

origin.patch

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
