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

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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

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Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers