Subject: [PATCH 1/3] pid: Remove the child_reaper special case in init/main.c
Posted by Daniel Lezcano on Mon, 14 Feb 2011 19:16:01 GMT
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From: Eric W. Biederman <ebiederm@xmission.com>

It turns out that the existing assignment in copy_process of
the child_reaper can handle the initial assignment of child_reaper
we just need to generalize the test in kernel/fork.c

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
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---
 include/linux/pid.h |   11 ++++++++++
 init/main.c         |    9 ---------
 kernel/fork.c       |    2 +-
 3 files changed, 12 insertions(+), 10 deletions(-)

diff --git a/include/linux/pid.h b/include/linux/pid.h
index 49f1c2f..efceda0 100644
--- a/include/linux/pid.h
+++ b/include/linux/pid.h
@@ -141,6 +141,17 @@ static inline struct pid_namespace *ns_of_pid(struct pid *pid)
 }

 /*
+ * is_child_reaper returns true if the pid is the init process
+ * of the current namespace. As this one could be checked before
+ * pid_ns->child_reaper is assigned in copy_process, we check
+ * with the pid number.
+ */
+static inline bool is_child_reaper(struct pid *pid)
+{
+ return pid->numbers[pid->level].nr == 1;
+}
+
+/*
  * the helpers to get the pid's id seen from different namespaces
  *
  * pid_nr()    : global id, i.e. the id seen from the init namespace;
diff --git a/init/main.c b/init/main.c
index 33c37c3..793ebfd 100644
--- a/init/main.c
+++ b/init/main.c
@@ -875,15 +875,6 @@ static int __init kernel_init(void * unused)
  * init can run on any cpu.
  */
 set_cpus_allowed_ptr(current, cpu_all_mask);

```
- /*
-  * Tell the world that we're going to be the grim
-  * reaper of innocent orphaned children.
-  *
-  * We don't want people to have to make incorrect
-  * assumptions about where in the task array this
-  * can be found.
-  */
- init_pid_ns.child_reaper = current;

  cad_pid = task_pid(current);

diff --git a/kernel/fork.c b/kernel/fork.c
index 25e4291..c9f0784 100644
--- a/kernel/fork.c
+++ b/kernel/fork.c
@@ -1289,7 +1289,7 @@ static struct task_struct *copy_process(unsigned long clone_flags,
   tracehook_finish_clone(p, clone_flags, trace);

   if (thread_group_leader(p)) {
-   if (clone_flags & CLONE_NEWPID)
+   if (is_child_reaper(pid))
     p->nsproxy->pid_ns->child_reaper = p;

    p->signal->leader_pid = pid;
--
1.7.1
```

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