Subject: [RFC][PATCH 2/6] Reimplement pid_nr() using struct pid_nr
Posted by Sukadev Bhattiprolu on Sat, 10 Mar 2007 03:58:39 GMT
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
Subject [RFC][PATCH 2/6] Reimplement pid_nr() using struct pid_nr

Replace the pid_nr() stub with a version that uses struct pid_nr
and returns the pid_t based on the pid namespace of the caller.

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>
Cc: Cedric Le Goater <clg@fr.ibm.com>
Cc: Dave Hansen <haveblue@us.ibm.com>
Cc: Serge Hallyn <serue@us.ibm.com>
Cc: containers@lists.osdl.org
---
 include/linux/pid.h | 9 +--------
 kernel/pid.c | 19 +++++++++++++++++++
 2 files changed, 20 insertions(+), 8 deletions(-)

Index: lx26-20-mm2b/include/linux/pid.h
===
--- lx26-20-mm2b.orig/include/linux/pid.h 2007-03-09 18:27:51.000000000 -0800
+++ lx26-20-mm2b/include/linux/pid.h 2007-03-09 18:28:00.000000000 -0800
@@ -118,14 +118,7 @@ extern void free_pid_nr(struct pid_nr *p
 extern struct pid_nr *alloc_pid_nr(struct pid_namespace *pid_ns);
 extern struct pid *alloc_pid(void);
 extern void FASTCALL(free_pid(struct pid *pid));
-
-static inline pid_t pid_nr(struct pid *pid)
-{
- pid_t nr = 0;
- if (pid)
- nr = pid->nr;
- return nr;
-}
+extern pid_t pid_nr(struct pid *pid);

 #define do_each_pid_task(pid, type, task)   \
  do {   \
Index: lx26-20-mm2b/kernel/pid.c
===
--- lx26-20-mm2b.orig/kernel/pid.c 2007-03-09 18:27:51.000000000 -0800
+++ lx26-20-mm2b/kernel/pid.c 2007-03-09 18:28:00.000000000 -0800
@@ -263,6 +263,25 @@ int attach_pid_nr(struct pid *pid, struc
  return 0;
 }

```
+pid_t pid_nr(struct pid *pid)
+{
+ struct pid_nr* pid_nr;
+ struct hlist_node *pos;
+
+ if (!pid)
+  return 0;
+
+ rcu_read_lock();
+ hlist_for_each_entry_rcu(pid_nr, pos, &pid->pid_nrs, node)
+  if (pid_nr->pid_ns == task_pid_ns(current)) {
+   rcu_read_unlock();
+   return pid_nr->nr;
+  }
+
+ rcu_read_unlock();
+ return 0;
+}
+
 struct pid *alloc_pid(void)
 {
  struct pid *pid;
```

_____

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