Subject: Re: [PATCH 7/16] Helpers to find the task by its numerical ids Posted by Sukadev Bhattiprolu on Tue, 10 Jul 2007 04:00:45 GMT

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Pavel Emelianov [xemul@openvz.org] wrote:
When searching the task by numerical id on may need to find
it using global pid (as it is done now in kernel) or by its
 virtual id, e.g. when sending a signal to a task from one
 namespace the sender will specify the task's virtual id.
 Signed-off-by: Pavel Emelianov <xemul@openvz.org>
 fs/proc/base.c
                   | 2 +-
 include/linux/pid.h | 13 +++++++++
 | 32 ++++++++++++
 4 files changed, 58 insertions(+), 20 deletions(-)
 --- ./fs/proc/base.c.ve6 2007-07-06 10:58:56.000000000 +0400
 +++ ./fs/proc/base.c 2007-07-06 11:03:41.000000000 +0400
 @ @ -2230,7 +2230,7 @ @ static struct task_struct *next_tgid(uns
 rcu read lock();
 retry:
 task = NULL;
 - pid = find_ge_pid(tgid);
 + pid = find ge pid(tgid, &init pid ns);
 if (pid) {
  tgid = pid - nr + 1;
  task = pid_task(pid, PIDTYPE_PID);
 --- ./include/linux/pid.h.ve6 2007-07-06 11:03:27.000000000 +0400
 +++ ./include/linux/pid.h 2007-07-06 11:03:27.000000000 +0400
 @ @ -98,14 +98,23 @ @ extern struct pid_namespace init_pid_ns;
 /*
  * look up a PID in the hash table. Must be called with the tasklist lock
  * or rcu_read_lock() held.
+ *
 + * find_pid_ns() finds the pid in the namespace specified
 + * find pid() find the pid by its global id, i.e. in the init namespace
 + * find vpid() finr the pid by its virtual id, i.e. in the current namespace
 + * see also find_task_by_pid() set in include/linux/sched.h
 */
 -extern struct pid *FASTCALL(find_pid(int nr));
 +extern struct pid *FASTCALL(find_pid_ns(int nr, struct pid_namespace *ns));
 +
 +#define find vpid(pid) find pid ns(pid, current->nsproxy->pid ns)
```

| +#define find_pid(pid) find_pid_ns(pid, &init_pid_ns)

Adding a second interface maybe more confusing to drivers and non-pid users.

But more importantly, modifying find_pid() to refer to only init_pid_ns would require auditing existing find_pid() callers and switching them to find_vpid().

For instance if capset() is called from a child pid namespace, the 'pid' would refer to the pid or pgid from child pid ns. But cap_set_pg() calls find pid() which gets the number from init pid ns.

Is there a similar issue with sunos_killpg()?

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