Subject: Processes with multiple pid_t values
Posted by Sukadev Bhattiprolu on Fri, 08 Dec 2006 21:23:47 GMT
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A process that unshares its namespace gets a new pid_t in the child
namespace. Simlarly its process group and session leaders get new pid_ts
in the child namespace right ?

i.e do the following pid_ts look reasonable when process 1234 unshares
its pid namespace ?

PID PPID PGID SID

init pid ns 1234 1233 1230 1220

child pid ns 3 2 1 0

Assuming they are :-), we should expect find_pid() call with nr == 0, 1,
or 2 in the child pid namespace to also work right ?

But processes 1220, 1230, 1233 are entered into the hash table based on
their init pid ns values. And so the above find_pid() calls would not
find the process we want.

i.e some processes have two pid_ts and we want to find them using either
of the two values. The pid_hash table can obviously hash on one value.

We would need some serious changes to the pid_hash table to do this ???
(can we change the hash algorithm to generate a key based on all pid_ts
a process has ????)

Or should we just keep track of these special processes (4 per namespace
including the child reaper) in the namespace object - just like we treat
the child_reaper special ?

Then find_pid() would have to check the namespace object in addition to
hash table.

Appreciate any ideas/comments.

Suka

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