Subject: process_group()
Posted by Sukadev Bhattiprolu on Sat, 20 Jan 2007 20:19:59 GMT
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We currently have:

```
 static inline pid_t process_group(struct task_struct *tsk)
 {
  return tsk->signal->pgrp;
 }
```
and

```
 static inline struct pid *task_pgrp(struct task_struct *task)
 {
  return task->group_leader->pids[PIDTYPE_PGID].pid;
 }
```

and we are replacing process_group() with task_pgrp() and eventually
plan to remove process_group().

But there are several places in the kernel where we interact with
user space using a pid_t (obvious being sys_setpgid(), sys_getpgid()
do_task_stat(), do_wait() etc).

In all these places, process_group(p) would simply be replaced by
pid_nr(task_pgrp(p)). Rather than do that same replacement in many
places, can we keep the interface and change the implmenation to:

```
 static inline pid_t process_group(struct task_struct *tsk)
 {
  return pid_nr(task_pgrp(tsk));
 }
```

i.e our ultimate goal is not really to remove process_group() but
actually to remove the caching of pid_t in signal->pgrp right ?

The above disussion is also valid for process_session()/task_session().

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