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Subject: Re: [PATCH] Use task\_pid\_nr() instead of pid\_nr(task\_pid())  
Posted by [Pavel Emelianov](#) on Mon, 08 Oct 2007 08:57:54 GMT  
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Andrew Morton wrote:

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> On Wed, 03 Oct 2007 18:26:06 +0400
> Pavel Emelianov <xemul@openvz.org> wrote:
>
>> There are two places that do so - the cgroups subsystem
>> and the autofs code.
>>
>> Signed-off-by: Pavel Emelianov <xemul@openvz.org>
>>
>> ---
>>
>> diff --git a/fs/autofs/root.c b/fs/autofs/root.c
>> index 592f640..5efff3c 100644
>> --- a/fs/autofs/root.c
>> +++ b/fs/autofs/root.c
>> @@ -214,7 +214,7 @@ static struct dentry *autofs_root_lookup
>>
>>  oz_mode = autofs_oz_mode(sbi);
>>  DPRINTK(("autofs_lookup: pid = %u, pgrp = %u, catatonic = %d, "
>> -   "oz_mode = %d\n", pid_nr(task_pid(current)),
>> +   "oz_mode = %d\n", task_pid_nr(current),
>>    task_pgrp_nr(current), sbi->catatonic,
>>    oz_mode));
>>
>> diff --git a/kernel/cgroup.c b/kernel/cgroup.c
>> index 1e8aa53..8720881 100644
>> --- a/kernel/cgroup.c
>> +++ b/kernel/cgroup.c
>> @@ -1762,7 +1762,7 @@ static int pid_array_load(pid_t *pidarra
>>  while ((tsk = cgroup_iter_next(cont, &it)) {
>>    if (unlikely(n == npids))
>>      break;
>> -   pidarray[n++] = pid_nr(task_pid(tsk));
>> +   pidarray[n++] = task_pid_nr(tsk);
>>  }
>>  cgroup_iter_end(cont, &it);
>>  return n;
>
> And more will appear over time unless we remove pid_nr() altogether.
>
> Can we do that?
```

Hardly.

There are places that store the struct pid and try to obtain its number later. E.g. `tiocgpgrp()` wants to tell user the pgrp nr of the tty's active group; `fgetown()` tells user the number of file's owner pid or (!) pgrp; file locks need to store the pid and report it later (this is not implemented yet, I'm still working on it) and so on and so forth.

Thanks,  
Pavel

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