
Subject: Re: [PATCH 2/6] Rename pid_nr function
Posted by Pavel Emelianov on Fri, 13 Jul 2007 05:26:18 GMT
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sukadev@us.ibm.com wrote:

> Subject: [PATCH 2/6] Rename pid_nr function
>
> From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
>
> Rename pid_nr() function to pid_to_nr() which is more descriptive
> and will hopefully cause less confusion with new structure/functions
> being added to support multiple pid namespaces.

Don't we need at least two convertors:

pid_to_nr_as_it_seen_by_current()
and
pid_to_nr_as_it_seen_by_some_other_task()

The first one is essentially the second one with "some other task" being current, but it can be optimized...

> Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>
> ---
> drivers/char/n_r3964.c | 7 +++++--
> drivers/char/tty_io.c | 4 +---
> fs/autofs/root.c | 2 +-
> fs/fcntl.c | 2 +-
> fs/proc/array.c | 2 +-
> fs/smbfs/proc.c | 2 +-
> include/linux/pid.h | 2 +-
> ipc/mqueue.c | 2 +-
> kernel/container.c | 2 +-
> kernel/fork.c | 2 +-
> kernel/sysctl.c | 2 +-
> 11 files changed, 15 insertions(+), 14 deletions(-)
>
> Index: lx26-22-rc6-mm1/include/linux/pid.h
> ======
> --- lx26-22-rc6-mm1.orig/include/linux/pid.h 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/include/linux/pid.h 2007-07-05 18:54:29.000000000 -0700
> @@ -98,7 +98,7 @@ extern struct pid *find_ge_pid(int nr);
> extern struct pid *alloc_pid(void);
> extern void FASTCALL(free_pid(struct pid *pid));
>
> -static inline pid_t pid_nr(struct pid *pid)
> +static inline pid_t pid_to_nr(struct pid *pid)
> {
> pid_t nr = 0;

```

> if (pid)
> Index: lx26-22-rc6-mm1/drivers/char/n_r3964.c
> =====
> --- lx26-22-rc6-mm1.orig/drivers/char/n_r3964.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/drivers/char/n_r3964.c 2007-07-05 18:54:29.000000000 -0700
> @@ -771,7 +771,7 @@ static int enable_signals(struct r3964_i
>
>     if (pClient->pid == pid) {
>         TRACE_PS("removing client %d from client list",
> -           pid_nr(pid));
> +           pid_to_nr(pid));
>         *ppClient = pClient->next;
>         while (pClient->msg_count) {
>             pMsg = remove_msg(pInfo, pClient);
> @@ -801,7 +801,8 @@ static int enable_signals(struct r3964_i
>         if (pClient == NULL)
>             return -ENOMEM;
>
> -         TRACE_PS("add client %d to client list", pid_nr(pid));
> +         TRACE_PS("add client %d to client list",
> +           pid_to_nr(pid));
>         spin_lock_init(&pClient->lock);
>         pClient->sig_flags = arg;
>         pClient->pid = get_pid(pid);
> @@ -933,7 +934,7 @@ static void remove_client_block(struct r
> {
>     struct r3964_block_header *block;
>
> -     TRACE_PS("remove_client_block PID %d", pid_nr(pClient->pid));
> +     TRACE_PS("remove_client_block PID %d", pid_to_nr(pClient->pid));
>
>     block = pClient->next_block_to_read;
>     if (block) {
> Index: lx26-22-rc6-mm1/drivers/char/tty_io.c
> =====
> --- lx26-22-rc6-mm1.orig/drivers/char/tty_io.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/drivers/char/tty_io.c 2007-07-05 18:54:29.000000000 -0700
> @@ -3080,7 +3080,7 @@ static int tiocgpgrp(struct tty_struct *
> */
>     if (tty == real_tty && current->signal->tty != real_tty)
>         return -ENOTTY;
> -     return put_user(pid_nr(real_tty->pgrp), p);
> +     return put_user(pid_to_nr(real_tty->pgrp), p);
> }
>
> /**
> @@ -3151,7 +3151,7 @@ static int tiocgsid(struct tty_struct *t
>     return -ENOTTY;

```

```

> if (!real_tty->session)
>   return -ENOTTY;
> - return put_user(pid_nr(real_tty->session), p);
> + return put_user(pid_to_nr(real_tty->session), p);
> }
>
> /**
> Index: lx26-22-rc6-mm1/fs/autofs/root.c
> =====
> --- lx26-22-rc6-mm1.orig/fs/autofs/root.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/fs/autofs/root.c 2007-07-05 18:54:29.000000000 -0700
> @@ -214,7 +214,7 @@ static struct dentry *autofs_root_lookup
>
>   oz_mode = autofs_oz_mode(sbi);
>   DPRINK(("autofs_lookup: pid = %u, pgrp = %u, catatonic = %d, "
> -   "oz_mode = %d\n", pid_nr(task_pid(current)),
> +   "oz_mode = %d\n", pid_to_nr(task_pid(current)),
>     process_group(current), sbi->catatonic,
>     oz_mode));
>
> Index: lx26-22-rc6-mm1/fs/fcntl.c
> =====
> --- lx26-22-rc6-mm1.orig/fs/fcntl.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/fs/fcntl.c 2007-07-05 18:54:29.000000000 -0700
> @@ -305,7 +305,7 @@ pid_t f_getown(struct file *filp)
> {
>   pid_t pid;
>   read_lock(&filp->f_owner.lock);
> - pid = pid_nr(filp->f_owner.pid);
> + pid = pid_to_nr(filp->f_owner.pid);
>   if (filp->f_owner.pid_type == PIDTYPE_PPID)
>     pid = -pid;
>   read_unlock(&filp->f_owner.lock);
> Index: lx26-22-rc6-mm1/fs/proc/array.c
> =====
> --- lx26-22-rc6-mm1.orig/fs/proc/array.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/fs/proc/array.c 2007-07-05 18:54:29.000000000 -0700
> @@ -398,7 +398,7 @@ static int do_task_stat(struct task_struct
>   struct signal_struct *sig = task->signal;
>
>   if (sig->tty) {
> -   tty_pgrp = pid_nr(sig->tty->pgrp);
> +   tty_pgrp = pid_to_nr(sig->tty->pgrp);
>   tty_nr = new_encode_dev(tty_devnum(sig->tty));
>   }
>
> Index: lx26-22-rc6-mm1/fs/smbfs/proc.c
> =====

```

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> --- lx26-22-rc6-mm1.orig/fs/smbfs/proc.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/fs/smbfs/proc.c 2007-07-05 18:54:29.000000000 -0700
> @@ -972,7 +972,7 @@ @ @ smb_newconn(struct smb_sb_info *server,
>
>   VERBOSE("protocol=%d, max_xmit=%d, pid=%d capabilities=0x%x\n",
>   server->opt.protocol, server->opt.max_xmit,
> -  pid_nr(server->conn_pid), server->opt.capabilities);
> +  pid_to_nr(server->conn_pid), server->opt.capabilities);
>
> /* FIXME: this really should be done by smbmount. */
> if (server->opt.max_xmit > SMB_MAX_PACKET_SIZE) {
> Index: lx26-22-rc6-mm1/ ipc/mqueue.c
> =====
> --- lx26-22-rc6-mm1.orig/ ipc/mqueue.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/ ipc/mqueue.c 2007-07-05 18:54:29.000000000 -0700
> @@ -336,7 +336,7 @@ @ @ static ssize_t mqueue_read_file(struct f
>   (info->notify_owner &&
>   info->notify.sigev_notify == SIGEV_SIGNAL) ?
>   info->notify.sigev_signo : 0,
> -  pid_nr(info->notify_owner));
> +  pid_to_nr(info->notify_owner));
>   spin_unlock(&info->lock);
>   buffer[sizeof(buffer)-1] = '\0';
>   slen = strlen(buffer)+1;
> Index: lx26-22-rc6-mm1/ kernel/fork.c
> =====
> --- lx26-22-rc6-mm1.orig/ kernel/fork.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/ kernel/fork.c 2007-07-05 18:54:29.000000000 -0700
> @@ -1032,7 +1032,7 @@ @ @ static struct task_struct *copy_process(
>   p->did_exec = 0;
>   delayacct_tsk_init(p); /* Must remain after dup_task_struct() */
>   copy_flags(clone_flags, p);
> -  p->pid = pid_nr(pid);
> +  p->pid = pid_to_nr(pid);
>   INIT_LIST_HEAD(&p->children);
>   INIT_LIST_HEAD(&p->sibling);
>   p->vfork_done = NULL;
> Index: lx26-22-rc6-mm1/ kernel/sysctl.c
> =====
> --- lx26-22-rc6-mm1.orig/ kernel/sysctl.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/ kernel/sysctl.c 2007-07-05 18:54:29.000000000 -0700
> @@ -2313,7 +2313,7 @@ @ @ static int proc_do_cad_pid(ctl_table *ta
>   pid_t tmp;
>   int r;
>
> -  tmp = pid_nr(cad_pid);
> +  tmp = pid_to_nr(cad_pid);
>

```

```
> r = __do_proc_dointvec(&tmp, table, write, filp, buffer,
> lenp, ppos, NULL, NULL);
> Index: lx26-22-rc6-mm1/kernel/container.c
> =====
> --- lx26-22-rc6-mm1.orig/kernel/container.c 2007-07-05 18:53:43.000000000 -0700
> +++ lx26-22-rc6-mm1/kernel/container.c 2007-07-05 18:54:29.000000000 -0700
> @@ -1600,7 +1600,7 @@ static int pid_array_load(pid_t *pidarra
>     while ((tsk = container_iter_next(cont, &it))) {
>         if (unlikely(n == npids))
>             break;
> -        pidarray[n++] = pid_nr(task_pid(tsk));
> +        pidarray[n++] = pid_to_nr(task_pid(tsk));
>     }
>     container_iter_end(cont, &it);
>     return n;
> 
```

> Containers mailing list
> Containers@lists.linux-foundation.org
> <https://lists.linux-foundation.org/mailman/listinfo/containers>