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Subject: [PATCH 2/6] Rename pid\_nr function  
Posted by [Sukadev Bhattiprolu](#) on Fri, 06 Jul 2007 05:53:16 GMT  
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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.

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 tiocgpggrp(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);
    DPRINTK(("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_PGID)
        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_stru
    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

```
=====
--- 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;
```

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Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

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