
Subject: Re: [PATCH 8/15] Helpers to find the task by its numerical ids
Posted by [Oleg Nesterov](#) on Sun, 29 Jul 2007 12:39:07 GMT
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On 07/26, Pavel Emelyanov wrote:

```
>  
> +#define find_pid(pid) find_pid_ns(pid, &init_pid_ns)
```

Again, I think find_pid() should use current's active ns, not
init_pid_ns. Just grep for find_pid/find_task_by_pid.

```
> --- linux-2.6.23-rc1-mm1.orig/kernel/pid.c 2007-07-26 16:34:45.000000000 +0400  
> +++ linux-2.6.23-rc1-mm1-7/kernel/pid.c 2007-07-26 16:36:37.000000000 +0400  
> @@ -204,19 +221,20 @@ static void delayed_put_pid(struct rcu_h  
>   goto out;  
> }  
>  
> -struct pid * fastcall find_pid(int nr)  
> +struct pid * fastcall find_pid_ns(int nr, struct pid_namespace *ns)  
> {  
>   struct hlist_node *elem;  
>   - struct pid *pid;  
>   + struct upid *pnr;  
>   +  
>   + hlist_for_each_entry_rcu(pnr, elem,  
>   +   &pid_hash[pid_hashfn(nr, ns)], pid_chain)  
>   + if (pnr->nr == nr && pnr->ns == ns)  
>           ^^^^^^^^^^^^^
```

Aha, that is why we need upid->ns.

I am a bit surprised we don't move the global pid_hash into the
"struct pid_namespace", this could speedup the search, and we
don't need upid->ns.

```
> -struct pid *find_ge_pid(int nr)  
> +struct pid *find_ge_pid(int nr, struct pid_namespace *ns)  
> {  
>   struct pid *pid;  
>  
>   do {  
>     - pid = find_pid(nr);  
>     + pid = find_pid_ns(nr, ns);  
>     if (pid)  
>       break;  
>     - nr = next_pidmap(task_active_pid_ns(current), nr);  
>     + nr = next_pidmap(ns, nr);  
>   } while (nr > 0);  
>
```

```
> return pid;
```

This means we should fix the caller, `next_tgid()`, but this is done in 15/15.

Oleg.
