Subject: Re: [PATCH 7/15] Helpers to obtain pid numbers
Posted by Pavel Emelianov on Mon, 30 Jul 2007 06:11:25 GMT
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Oleg Nesterov wrote:
> On 07/26, Pavel Emelyanov wrote:
>> --- linux-2.6.23-rc1-mm1.orig/include/linux/pid.h 2007-07-26 16:34:45.000000000 +0400
>> +++ linux-2.6.23-rc1-mm1-7/include/linux/pid.h 2007-07-26 16:36:37.000000000 +0400
>> @@ -83,12 +92,34 @@ extern void FASTCALL(detach_pid(struct t
>>
>> extern struct pid *alloc_pid(struct pid_namespace *ns);
>> extern void FASTCALL(free_pid(struct pid *pid));
>> +
>> +/*
>> + * the helpers to get the pid's id seen from different namespaces
>> + *
>> + * pid_nr()   : global id, i.e. the id seen from the init namespace;
>
> This looks a bit strange to me, but perhaps this is just matter of taste.
> I think pid_nr(pid) should be pid_nr_ns(pid, current->nsproxy->pid_ns),
> this is imho much closer to the current meaning. I won't persist though.

pid_nr, find_task_by_pid and all other stuff, that existed in the kernel
before the set are intended to work with global ids only (just as it was
before the set).

>> +pid_t pid_nr_ns(struct pid *pid, struct pid_namespace *ns)
>> +{
>> + pid_t nr = 0;
>> + if (pid && ns->level <= pid->level)
>> + nr = pid->numbers[ns->level].nr;
>> + return nr;
>> +}
>
> I am not sure I understand the "ns->level <= pid->level" check. Isn't it
> a bug to use a "wrong" namespace here? In that case BUG_ON() looks better.

Yes, that's a check for bad namespace passed.

> If ns could be wrong, "ns->level <= pid->level" is not enough, we should
> also check "pid->numbers[ns->level].ns == ns", no?

Yes, we should, and you're right in that we must have BUG_ON() here.

> Oleg.
>
>

Thanks,
Pavel