## Subject: Re: [RFC][PATCH] Cleanup the new thread's creation Posted by Pavel Emelianov on Mon, 27 Aug 2007 06:43:24 GMT

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Oleg Nesterov wrote:
> On 08/24, Pavel Emelyanov wrote:
>> The major differences of creating a new thread from creating a
>> new process is that
>>
>> 1. newbie's tgid is set to leader's
>> 2. newbie's leader is set to leader
>> 3. newbie is added to leader's thread list
>
> (Surely, the are many other major differences, but from the pids virtualization
> POV - yes;)
>> +static void setup new thread(struct task struct *thr, struct task struct
>> *leader)
>> +{
>> + thr->tgid = leader->tgid;
>> + thr->group leader = leader;
>> + list add tail rcu(&thr->thread group, &leader->thread group);
>> +}
> Imho, this name is a bit "too generic". Not that I can suggest something
> better... copy_sub_thread/copy_group_leader ?
>> @ @ -1147,9 +1161,6 @ @ static struct task struct *copy process(
>> }
>>
>> p->pid = pid nr(pid);
>> - p->tgid = p->pid;
>> - if (clone_flags & CLONE_THREAD)
>> - p->tgid = current->tgid;
>
> I agree, it is absoulutely not clear why should we set ->tgid here, and it
> would be nice to consolidate "if (CLONE_THREAD)" checks, but do we really
> need the helpers above? There are very simple, and have the only one caller.
> Sometimes it is good to see what's going on without pressing C-1
> Not that I against this patch, just I'm not sure it really simplifies things.
> Perhaps I missed something else you have in mind.
Me too, but while cleaning up the pid_t usage over the kernel I found
```

this place to be one of the most difficult from "how to make it better" point of view. We need to hide the pid/tgid explicit usage somehow, but the problem is that pid and told are set in this place and de thread() only and making helpers like set task tgid() doesn't sound reasonable.

> Oleg.	
>	
>	
Thanks,	
Pavel	
Containers mailing list	
Containers@lists.linux-foundation.org	
https://lists.linux-foundation.org/mailman/listinfo/containers	
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