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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 Emelianov 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, there 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 absolutely 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-]

>

> Not that I'm 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 tgid are set in this place and de\_thread()  
only and making helpers like set\_task\_tgid() doesn't sound reasonable.

> Oleg.

>

>

Thanks,  
Pavel

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