Subject: Re: [PATCH] vt: Rework the console spawning variables. Posted by Oleg Nesterov on Sun, 10 Sep 2006 20:33:42 GMT

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On 09/10, Eric W. Biederman wrote:
> Oleg Nesterov <oleg@tv-sign.ru> writes:
> > On 09/09, Eric W. Biederman wrote:
> >>
>>> This patch does several things.
>>> - The variables used are moved into a structure and declared in vt kern.h
>>> - A spinlock is added so we don't have SMP races updating the values.
>>> - Instead of raw pid_t value a struct_pid is used to guard against
>>> pid wrap around issues, if the daemon to spawn a new console dies.
> >
>> I am not arguing against this patch, but it's a pity we can't use 'struct pid'
> > lockless. What dou you think about this:
> Actually with xchg I can use a reference counted struct pid lockless.
>
> ...
> Perhaps:
> void update_pid(struct pid **ref, struct pid *new)
> {
       struct pid *old;
>
       get pid(new);
>
       old = xchq(ref, new);
>
       put_pid(old);
>
> }
This can't work. This put_pid() can actually free the memory, while
'old' is still in use (lockless).
> rcu is definitely not the solution in these cases as the struct pid
> is stored for a long time so we need the reference count.
Surely we need the reference count, I don't understand you.
Look at put pid rcu().
That said,
> In the general case you have more then one variable you want to keep
> in sync and you need the lock for that.
```

Yes.

| > But since I can write it as a moderately clear one liner in the> case that matters I don't much care. |
|--|
| Ok. |
| Oleg. |
| Containers mailing list Containers@lists.osdl.org https://lists.osdl.org/mailman/listinfo/containers |