Subject: Re: [PATCH] vt: Rework the console spawning variables. Posted by Oleg Nesterov on Sun, 10 Sep 2006 14:29:42 GMT

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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:
void delayed_free_pid(struct rcu_head *rhp)
 struct pid *pid = container_of(rhp, struct pid, rcu);
 kmem cache free(pid cachep, pid);
}
void put pid rcu(struct pid *pid)
 if (atomic_dec_and_test(&pid->count))
 // this can happen only if delayed_put_pid()
 // was already fired, we can re-use pid->rcu
 call_rcu(&pid->rcu, delayed_free_pid);
Now,
update_pid()
 // still needs some locking
 put_pid_rcu(pid);
 pid = get_pid(...);
use_pid()
 rcu read lock();
 do_something(pid);
 rcu_read_unock();
}
Thoughts?
Oleg.
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