Subject: Re: [RFC] kernel/pid.c pid allocation wierdness Posted by Oleg Nesterov on Wed, 14 Mar 2007 15:33:41 GMT View Forum Message <> Reply to Message

On 03/14, Eric W. Biederman wrote:

> Pavel Emelianov <xemul@sw.ru> writes:

>

> > Hi.

> >

> > I'm looking at how alloc\_pid() works and can't understand

> > one (simple/stupid) thing.

> >

> > It first kmem\_cache\_alloc()-s a strct pid, then calls

> > alloc\_pidmap() and at the end it taks a global pidmap\_lock()

> > to add new pid to hash.

We need some global lock. pidmap\_lock is already here, and it is only used to protect pidmap->page allocation. low, it is almost unused. So it was very natural to re-use it while implementing pidrefs.

> > The question is - why does alloc\_pidmap() use at least

> two atomic ops and potentially loop to find a zero bit

> > in pidmap? Why not call alloc\_pidmap() under pidmap\_lock

> > and find zero pid in pidmap w/o any loops and atomics?

Currently we search for zero bit lockless, why do you want to do it under spin\_lock ?

Oleg.

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