
Subject: Re: [RFC][PATCH 5/7] VPIDs: vpid/pid conversion in VPID enabled case
Posted by [serue](#) on Thu, 02 Feb 2006 19:29:01 GMT

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Quoting Dave Hansen (haveblue@us.ibm.com):

> On Thu, 2006-02-02 at 19:30 +0300, Kirill Korotaev wrote:
> > This is the main patch which contains all vpid-to-pid conversions
> > and auxilliary stuff. Virtual pids are distinguished from real ones
> > by the VPID_BIT bit set. Conversion from vpid to pid and vice versa
> > is performed in two ways: fast way, when vpid and it's according pid
> > differ only in VPID_BIT bit set ("linear" case), and more complex way,
> > when pid may correspond to any vpid ("sparse" case) - in this case we
> > use a hash-table based mapping.
>
> This is an interesting approach. Could you elaborate a bit on why
> you need the two different approaches? What conditions cause the switch
> to the sparse approach?
>
> Also, if you could separate those two approaches out into two different
> patches, it would be much easier to get a grasp about what's going on.
> One of them is just an optimization, right?
>
> Did you happen to catch Linus's mail about his preferred approach?
>
> http://marc.theaimsgroup.com/?l=linux-kernel&m=113874154_731279&w=2

And in particular, is there any functionality which you could not
implement by using this approach, which you can implement with the
pid_to_vpid approach?

thanks,
-serge
