Subject: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by Ligesh on Sun, 25 Feb 2007 06:13:04 GMT
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Hi,

 There seems to be almost double the privvmpages usage displayed in 2.6.9 compared to the same vps running on 2.6.8. Is this change documented somewhere? These are the figures I get:

 barebones centos-4 vps on 2.6.8 kernel shows privvmpages as (amounts to about 18MB)
 privvmpages   4545   7262   11520   11520   0
 dcachesize   78057   81774 2147483646 2147483646   0

the _same_ vps running on 2.6.9 shows (amounts to 40MB, more than double)
 privvmpages   9491   10752   11520   11520   0
 dcachesize   0   0 2147483646 2147483646   0

 From the above, should I assume that now privvmpages includes dcachesize too?

 Thanks.

Subject: Re: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by Vasily Tarasov on Mon, 26 Feb 2007 09:58:16 GMT
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Hello,

can you, please, specify what particular kernels have you used in your experiments?

Thank you,
Vasily

Ligesh wrote:
> Hi,
>
> There seems to be almost double the privvmpages usage displayed in 2.6.9 compared to the same vps running on 2.6.8. Is this change documented somewhere? These are the figures I get:
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> Thanks.
>

Subject: Re: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by Ligesh on Mon, 26 Feb 2007 14:06:20 GMT

On Mon, Feb 26, 2007 at 12:58:16PM +0300, Vasily Tarasov wrote:
> Hello,
>
> can you, please, specify what particular kernels have you used in your
> experiments?
>
> Thank you,
> Vasily
>

2.6.8-022stab078.10
2.6.9-023stab040.1

 By adding the actual vsizes as shown by ps, it seems the higher values shown by the current kernel is the actual usage, while the 2.6.8 seems to be wrong. Anyway, some clarification would be great.

 Thanks.

Subject: Re: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by Ligesh on Sat, 03 Mar 2007 07:23:25 GMT

On Mon, Feb 26, 2007 at 07:45:20PM +0530, Ligesh wrote:
> On Mon, Feb 26, 2007 at 12:58:16PM +0300, Vasily Tarasov wrote:
> > Hello,
> >
> > can you, please, specify what particular kernels have you used in your
> > experiments?
> >
> > Thank you,
> > Vasily

> >
>
> 2.6.8-022stab078.10
> 2.6.9-023stab040.1
>
> By adding the actual vsizes as shown by ps, it seems the higher values shown by the current kernel is the actual usage, while the 2.6.8 seems to be wrong. Anyway, some clarification would be great.
>
> Thanks.

 Hi folks,

 On 2.6.9-023stab037.3-smp also, the memory is showing half that of shown by 2.6.9-023stab040.1. Could anyone please help me out here. This is completely disorienting actually. Which kernel should I trust?

 Thanks.

Subject: Re: Re: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by dev on Mon, 05 Mar 2007 09:51:34 GMT
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Ligesh,

I answered in the bug:
http://bugzilla.openvz.org/show_bug.cgi?id=484

Both kernels are correct. This is due to execschield which creates some interesting mappings on its behalf. Investigating the reasons of it.
To turn this 2.6.9 behaviour off boot the kernel with noexec=off

Thanks,
Kirill

> On Mon, Feb 26, 2007 at 07:45:20PM +0530, Ligesh wrote:
>
>>On Mon, Feb 26, 2007 at 12:58:16PM +0300, Vasily Tarasov wrote:
>>
>>>Hello,
>>>
>>>can you, please, specify what particular kernels have you used in your
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>>>
>>>Thank you,

>>>Vasily

>>>

>>

>>2.6.8-022stab078.10

>>2.6.9-023stab040.1

>>

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>> Thanks.

>

>

> Hi folks,

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>

> Thanks.

>

>

>

>

Subject: Re: Difference in privvmpages accounting between 2.6.8 and 2.6.9-023stab040.1
Posted by Ligesh on Mon, 05 Mar 2007 10:13:32 GMT

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On Mon, Mar 05, 2007 at 01:03:59PM +0300, Kirill Korotaev wrote:
> Ligesh,
>
> I answered in the bug:
> http://bugzilla.openvz.org/show_bug.cgi?id=484
>
> Both kernels are correct. This is due to execschield which creates some
> interesting mappings on its behalf. Investigating the reasons of it.
> To turn this 2.6.9 behaviour off boot the kernel with noexec=off
>

 Yeah, It works fine with noexec=off. It did create some confusion for some time, resulting in some minor altercation between vps hosting providers and their customers on the question of memory usage (accusations of fraud etc :-).

 Thanks.