
Subject: Re:: vmstat and floating point exception

Posted by [kir](#) on Wed, 11 Jul 2012 00:45:53 GMT

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I barely remember there was a fix in the kernel related to this. I might be wrong, but it's worth checking on a latest rhel6 stable or testing kernel.

<mjohanson@a2hosting.com>

> Linux solusvm.a2hosting.com 2.6.32-042stab053.5 #1 SMP Tue Mar 27

> vzctl version 3.3

> vswap is enabled

>

> Since upgrading to a 2.6.32 kernel one of our users noticed that they

> are occasionally getting a Floating Point Exception when running vmstat:

>

> [root@server ~]# vmstat 1 5

> procs -----memory----- ---swap-- -----io----- --system--

> -----cpu-----

> r b swpd free buff cache si so bi bo in cs us sy

> id wa st

> 0 0 0 2048244 0 32816 0 0 0 2 0 7627 0 0

> 99 0 0

> 0 0 0 2048236 0 32816 0 0 0 0 0 110 0 0

> 100 0 0

> 0 0 0 2048236 0 32816 0 0 0 0 0 78 0 0

> 100 0 0

> 0 0 0 2048236 0 32816 0 0 0 0 0 91 0 0

> 100 0 0

> Floating point exception

>

> It doesn't happen every time as you can see here:

>

> [root@server ~]# vmstat 1 10

> procs -----memory----- ---swap-- -----io----- --system--

> -----cpu-----

> r b swpd free buff cache si so bi bo in cs us sy

> id wa st

> 0 0 0 2068584 0 12472 0 0 0 0 0 1745 0 0

> 100 0 0

> 0 0 0 2068576 0 12472 0 0 0 0 0 82 0 0

> 100 0 0

> 0 0 0 2068576 0 12472 0 0 0 0 0 77 0 0

> 100 0 0

> 0 0 0 2068576 0 12472 0 0 0 0 0 109 0 0

> 100 0 0

> 0 0 0 2068576 0 12472 0 0 0 0 0 92 0 0

> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 80 0 0
> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 87 0 0
> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 66 0 0
> 100 0 0
> 0 0 0 2068588 0 12472 0 0 0 0 0 130 0 0
> 100 0 0
> 0 0 0 2068588 0 12472 0 0 0 0 0 72 0 0
> 100 0 0

>
> I have been able to replicate this issue in other OS templates (theirs
> is Ubuntu 11.10, but I have replicated in Ubuntu, Fedora, Centos,
> etc...) running the same kernel and vzctl version.
>
> I can not replicate this issue on the node.
>
> Wondering if anyone else has run across this issue and/or knows what
> might be causing it.
>

Subject: Re: : vmstat and floating point exception
Posted by [kir](#) on Wed, 11 Jul 2012 11:42:12 GMT
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On 07/11/2012 04:45 AM, Kir Kolyshkin wrote:

>
> I barely remember there was a fix in the kernel related to this. I
> might be wrong, but it's worth checking on a latest rhel6 stable or
> testing kernel.
>

Indeed, I did a search on wiki.openvz.org for vmstat and found this:

<http://wiki.openvz.org/Download/kernel/rhel6/042stab057.1>

[fairsched] vmstat floating point operation fixed: idle scaling has been enhanced once again (PCLIN-30773)

I guess that's what you are reporting. Please update your kernel.

<mjohanson@a2hosting.com

>
> Linux solusvm.a2hosting.com <<http://solusvm.a2hosting.com>>

> 2.6.32-042stab053.5 #1 SMP Tue Mar 27
> vzctl version 3.3
> vswap is enabled
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> vmstat:

```
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procs -----memory----- ---swap-- -----io----- --system--
-----cpu-----
 r b swpd free buff cache si so bi bo in cs us sy
id wa st
 0 0  0 2048244  0 32816  0  0  0  2  0 7627
 0 0
99 0 0
 0 0  0 2048236  0 32816  0  0  0  0  0 110
 0 0
100 0 0
 0 0  0 2048236  0 32816  0  0  0  0  0 78
 0 0
100 0 0
 0 0  0 2048236  0 32816  0  0  0  0  0 91
 0 0
100 0 0
> Floating point exception
```

> It doesn't happen every time as you can see here:

```
[root@server ~]# vmstat 1 10
procs -----memory----- ---swap-- -----io----- --system--
-----cpu-----
 r b swpd free buff cache si so bi bo in cs us sy
id wa st
 0 0  0 2068584  0 12472  0  0  0  0  0 1745
 0 0
100 0 0
 0 0  0 2068576  0 12472  0  0  0  0  0 82
 0 0
100 0 0
 0 0  0 2068576  0 12472  0  0  0  0  0 77
 0 0
100 0 0
 0 0  0 2068576  0 12472  0  0  0  0  0 109
 0 0
100 0 0
 0 0  0 2068576  0 12472  0  0  0  0  0 92
 0 0
```

> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 80
> 0 0
> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 87
> 0 0
> 100 0 0
> 0 0 0 2068576 0 12472 0 0 0 0 0 66
> 0 0
> 100 0 0
> 0 0 0 2068588 0 12472 0 0 0 0 0 130
> 0 0
> 100 0 0
> 0 0 0 2068588 0 12472 0 0 0 0 0 72
> 0 0
> 100 0 0

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>
> _____
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> Users@openvz.org <mailto:Users@openvz.org>
> <https://openvz.org/mailman/listinfo/users>
>