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Subject: What is OpenVZ container scheduling granularity

Posted by [shule ney](#) on Tue, 20 Dec 2011 20:21:50 GMT

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Hi all:

I'm eager to know what is OpenVZ container scheduling granularity, 1ms or something??? I really need information about this.

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Subject: Re: What is OpenVZ container scheduling granularity

Posted by [Kirill Korotaev](#) on Wed, 21 Dec 2011 07:58:19 GMT

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It's floating, depends on priorities. Plus more important for latency is not granularity, but preemptiveness.

Sent from my iPhonespam SPAMSPAM

On 21.12.2011, at 0:34, "shule ney" <neyshule@gmail.com> wrote:

> Hi all:

> I'm eager to know what is OpenVZ container scheduling granularity, 1ms or something??? I really need information about this.

> <ATT00001.c>

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Subject: Re: What is OpenVZ container scheduling granularity

Posted by [shule ney](#) on Wed, 21 Dec 2011 15:50:01 GMT

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Much thanks Kirill, I really appreciate your reply! My question is:

Suppose two containers exist on my machine which can use 0%-100% CPU, each of them has only one active process. If I sleep one container's process for 1us which makes this container has nothing to do, will the the container be scheduled off and the other container gets scheduled? Is 1us too small for container scheduling?? I want to know if this case is possible. Thanks very much.

2011/12/21 Kirill Korotaev <dev@parallels.com>

> It's floating, depends on priorities. Plus more important for latency is  
> not granularity, but preemptiveness.

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> Sent from my iPhonespam SPAMSPAM

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> > Hi all:  
> > I'm eager to know what is OpenVZ container scheduling granularity, 1ms  
> or something??? I really need information about this.  
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>

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [Kirill Korotaev](#) on Wed, 21 Dec 2011 16:14:26 GMT  
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if CPU has nothing to do since your app went to sleep (even for 1us), it will be rescheduled to another CPU. Just like for conventional tasks in Linux.

On Dec 21, 2011, at 19:50 , shule ney wrote:

> Much thanks Kirill, I really appreciate your reply! My question is:  
> Suppose two containers exist on my machine which can use 0%-100% CPU, each of them has only one active process. If I sleep one container's process for 1us which makes this container has nothing to do, will the the container be scheduled off and the other container gets scheduled? Is 1us too small for container scheduling?? I want to know if this case is possible. Thanks very much.  
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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [MailingListe](#) on Wed, 21 Dec 2011 16:24:35 GMT  
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Zitat von shule ney <neyshule@gmail.com>:

> Much thanks Kirill, I really appreciate your reply! My question is:  
> Suppose two containers exist on my machine which can use 0%-100% CPU, each

> of them has only one active process. If I sleep one container's process for  
> 1us which makes this container has nothing to do, will the the container be  
> scheduled off and the other container gets scheduled? Is 1us too small for  
> container scheduling?? I want to know if this case is possible. Thanks very  
> much.

OpenVZ is shared Kernel so you must think of scheduling per  
process(-group) like in a conventional Kernel, not per container.

Regards

Andreas

## File Attachments

1) [smime.p7s](#), downloaded 440 times

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [shule ney](#) on Wed, 21 Dec 2011 16:49:24 GMT  
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Thanks very much Ist\_hoe02, if I'm using kernel-2.6.24 which uses CFS  
scheduler with nanosecond \*granularity, processes \*across\* different  
containers/groups should also have this \* \*granularity all right? \*

2011/12/21 <Ist\_hoe02@kwsoft.de>

> Zitat von shule ney <neyshule@gmail.com>:

>

>

> Much thanks Kirill, I really appreciate your reply! My question is:

>> Suppose two containers exist on my machine which can use 0%-100% CPU,  
>> each

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>> much.

>>

>

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> process(-group) like in a conventional Kernel, not per container.

>

> Regards

>

> Andreas  
>  
>  
>

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [dowdle](#) on Wed, 21 Dec 2011 17:04:08 GMT  
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Greetings,

----- Original Message -----

> Thanks very much lst\_hoe02, if I'm using kernel-2.6.24 which uses CFS  
> scheduler with nanosecond granularity, processes across different  
> containers/groups should also have this granularity all right?

Just to clarify, the OpenVZ project has dropped the 2.6.24 branch. What you have may still be supported by Debian/Ubuntu perhaps?

For info about the various OpenVZ kernel branches, please see:

<http://wiki.openvz.org/Download/kernel>

Just saying.

TYL,

--

Scott Dowdle  
704 Church Street  
Belgrade, MT 59714  
(406)388-0827 [home]  
(406)994-3931 [work]

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [shule ney](#) on Wed, 21 Dec 2011 17:18:37 GMT  
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I'm using the old 2.6.24/2.6.24-ovz009.1. It works well for me.

2011/12/21 Scott Dowdle <dowdle@montanalinux.org>

> Greetings,  
>

> ----- Original Message -----

> > Thanks very much lst\_hoe02, if I'm using kernel-2.6.24 which uses CFS

> > scheduler with nanosecond granularity, processes across different  
> > containers/groups should also have this granularity all right?  
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>  
> <http://wiki.openvz.org/Download/kernel>  
>  
> Just saying.  
>  
> TYL,  
> --  
> Scott Dowdle  
> 704 Church Street  
> Belgrade, MT 59714  
> (406)388-0827 [home]  
> (406)994-3931 [work]

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [MailingListe](#) on Thu, 22 Dec 2011 08:30:08 GMT  
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Zitat von shule ney <neyshule@gmail.com>:

> Thanks very much Ist\_hoe02, if I'm using kernel-2.6.24 which uses CFS  
> scheduler with nanosecond \*granularity, processes \*across\* different  
> containers/groups should also have this \* \*granularity all right? \*

To my knowledge OpenVZ does not alter the scheduler, but only  
priorities. So yes it should work, but others may have more insight  
then me.

Regards

Andreas

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#### File Attachments

1) [smime.p7s](#), downloaded 407 times

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Subject: Re: What is OpenVZ container scheduling granularity  
Posted by [shule ney](#) on Thu, 22 Dec 2011 14:59:01 GMT  
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Much thanks for your help lst\_hoe02[?]

2011/12/22 <lst\_hoe02@kwsoft.de>

> Zitat von shule ney <neyshule@gmail.com>:

>

> Thanks very much lst\_hoe02, if I'm using kernel-2.6.24 which uses CFS

>> scheduler with nanosecond \*granularity, processes \*across\* different

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> To my knowledge OpenVZ does not alter the scheduler, but only priorities.

> So yes it should work, but others may have more insight then me.

>

> Regards

>

> Andreas

>

>

>