
Subject: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [bast](#) on Fri, 28 Mar 2008 11:47:38 GMT

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Hi,

When I want to set cpuunits over 500000, I have an error. More over, vzcpucheck returns an error when cpunits is too high.

What is the problem ?

```
# vzctl set 183012 --cpuunits 500000 --save
Setting CPU units: 500000
Saved parameters for VE 183012
```

```
# vzcpucheck
ERROR: VE0 CPU units not set, or set too high!
Probably you have not started /etc/init.d/vz
```

```
# vzctl set 183012 --cpuunits 500001 --save
Bad parameter for --cpuunits: 500001
```

```
# vzcpucheck
ERROR: VE0 CPU units not set, or set too high!
Probably you have not started /etc/init.d/vz
```

```
# vzctl set 183012 --cpuunits 200000 --save
Setting CPU units: 200000
Saved parameters for VE 183012
```

```
# vzcpucheck
Current CPU utilization: 300000
Power of the node: 1064080
```

My VE0 CPU units : VE0CPUUNITS=50000

My configuration :

- DELL PowerEdge 2950 (bi intel quad core)
- Debian Etch 64 bits
- Kernel 2.6.18-fza-028stab053.5-amd64 #1 SMP Sat Mar 1 19:50:43 UTC 2008 x86_64 GNU/Linux (kernel from openvz)
- vzctl 3.0.22-1dso1
- vzdump 1.0-2
- vzprocps 2.0.11-1dso2
- vzquota 3.0.11-1dso1

Subject: Re: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [maratrus](#) on Fri, 28 Mar 2008 14:12:55 GMT

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Hi,

It's a little bit misleading message. You'd better understand it like "Warning: hardware node is overcommitted". 500000 is too big value. Please decrease it!

Have you read "Managing CPU share" chapter from OpenVZ user's guide (p. 53)

<http://download.openvz.org/doc/OpenVZ-Users-Guide.pdf>

Subject: Re: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [bast](#) on Fri, 28 Mar 2008 14:28:36 GMT

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Hi, Maratrus,

Thanks for your quikly response.

I have read the documentation of OpenVZ, and of course CPU sharing.

But the Power of the node is 1064080 and when I want to put cpuunits at 500000, this is under 1064080 !

Subject: Re: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [maratrus](#) on Fri, 28 Mar 2008 15:25:53 GMT

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Hi,

It's incorrect work of vzcpucheck/vzctl utilities.

You may fill the bug.

<http://bugzilla.openvz.org/>

But let me explain the situation and suggest you the workaround:

a) 500000 - is the maximal value of cpuunits you can use. That's why you cannot set 500001 cpuunits:

Quote:Bad parameter for --cpuunits: 500001

b) But cpuunits are relative values. So if you have only one VE instead of VE0CPUUNITS=50000 and YOUR_VE_CPUUNITS=500000 you can set VE0CPUUNITS=5000 and YOUR_VE_CPUUNITS=50000 because $50000/500000=5000/50000$.

But, be sure that you've set sufficient value of cpuunits for your HN.

P.S. How many CPUs have you got?

Subject: Re: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [bast](#) on Fri, 28 Mar 2008 16:15:12 GMT

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I have 2 cpus with 4 cores per cpu : 8 cpus.

I will have more than one VE (one big VE, the others will be little), but CPUUNITS=500000 will be enough.

I will open a bug for vzcpucheck and for this "mysterious" limit of 500000.

Thans a lot.

Subject: Re: CPUUNITS over 500000 not possible ? vzcpucheck problem ?

Posted by [bast](#) on Fri, 28 Mar 2008 16:30:12 GMT

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See open bug : http://bugzilla.openvz.org/show_bug.cgi?id=861
