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Subject: Still don't understand cpulimit / cpuunits  
Posted by [dermax](#) on Sat, 29 Dec 2007 19:49:54 GMT  
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Hi,

I know that this has been discussed very often, but I still don't get the point - sorry.

I have a host machine with Q6600 as CPU. I understand that I have 400 cpulimit units, which I can assign to VEs:

VE #1 gets 100 units, so to say 2.4 GHz  
VE #2 gets 50 units, only 1.2 GHz

VE #1 receives 1000 cpuunits, VE #2 2000 cpuunits.

Okay - but how do the cpuunits get in now? I've read a lot of times that the cpuunits only come into play when all resources are taken. So does it mean in my case, ie. when all other VEs are filling up the CPU power and only 2 GHz are left, the second (#2) VE receives more of the remaining 2 GHz instead the first VE?

Thanks!

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Subject: Re: Still don't understand cpulimit / cpuunits  
Posted by [ugob](#) on Sat, 29 Dec 2007 21:23:37 GMT  
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dermax wrote on Sat, 29 December 2007 14:49Hi,

I know that this has been discussed very often, but I still don't get the point - sorry.

I have a host machine with Q6600 as CPU. I understand that I have 400 cpulimit units, which I can assign to VEs:

VE #1 gets 100 units, so to say 2.4 GHz  
VE #2 gets 50 units, only 1.2 GHz

See it this way: everytime VE 2 gets 1 cpu units, VE 1 gets 2.

dermax wrote on Sat, 29 December 2007 14:49

VE #1 receives 1000 cpuunits, VE #2 2000 cpuunits.

I think it would behave the same way as 50/100.

Have you read this: <http://openvz.org/pipermail/users/2006-June/000224.html>

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Subject: Re: Still don't understand cpulimit / cpuunits  
Posted by [dermax](#) on Sat, 29 Dec 2007 23:15:04 GMT  
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Yeah, but when all resources are available, cpuunits isn't important, right? The cpu usage is just being spread between all VEs, where the maximum depends on the cpulimit value.

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Subject: Re: Still don't understand cpulimit / cpuunits  
Posted by [ugob](#) on Sun, 30 Dec 2007 01:51:23 GMT  
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You're mixing cpulimit and cpuunits.

cpulimit is a max value, no matter the load on the node.  
cpuunits is a minimal value, guaranteeing a cpu share, even if the cpus are fully loaded.

Please see the manual for more info.

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