Subject: Limiting CPU resources to a VE?
Posted by Ubuntu on Tue, 24 Feb 2009 17:28:53 GMT

Hello

I've searched this forum, I've searched Google, and I can't find a way of limiting the CPU resources available to a VE.

I am in the process of benchmarking native vs. Xen vs. OpenVZ on an Opteron system with 8 cores.

What I want to do is to limit the CPU power in the VE to 2 cores. Doesn't matter which ones.

I have tried this:

vzctl set 101 --save --cpulimit 200
(has no effect)

vzctl set 101 --save --cpus=2
(again has no effect)

When I say it does not work, when I run a benchmark in the VE I am getting the same performance I would if I run it natively on the system with all 8 cores available. i.e. it is running too fast, proving that I am not limited to the power of 2 cores.

My benchmark is multi-core aware.

How do I limit the CPUs in the VE to the equivalent of 2 processor cores?

When I start the VE I get this:

Setting CPU limit: 0
Setting CPU units: 1000
Setting CPUs: 2

However, in the VE, when I have a look at /cat/proc/cpuinfo there are 8 processors there. And as I say, I'm getting performance associated with the native machine.

I'm using Ubuntu 8.04 for the OpenVZ host, kernel is 2.6.24.

Thanks

Subject: Re: Limiting CPU resources to a VE?
Posted by maratrus on Wed, 25 Feb 2009 07:56:00 GMT

Hello,

according to
 http://forum.openvz.org/index.php?t=msg&goto=30020&& amp;srch=cpulimit#msg_30194
cpulimit is not implemented in 2.6.24 kernel yet.

Moreover, 2.6.24 kernels are under development now
http://download.openvz.org/kernel/
so in case of performance tests it worth trying 2.6.18 kernels too (cpulimit is working there).

Subject: Re: Limiting CPU resources to a VE?
Posted by myst on Fri, 27 Feb 2009 12:31:56 GMT
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Yes, in the 2.6.18 kernel cpulimit works, but how about ICH9 support in that kernel?
It seems that 2.6.18 kernel do not support ICH9.
We use hardware with ICH9DO and we need cpulimit, cpuuinits and etc.
Do exist any solution for this problem: kernel with ICH9 and cpulimit support?
Thanks for any advises!