Subject: *CLOSED* Need CPUUNITS Value for Celeron 2.4
Posted by jonwatson on Fri, 20 Apr 2007 19:24:12 GMT
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Hello,

As described in this post: http://forum.openvz.org/index.php?t=tree&goto=12058& #msg_12058

I cannot use the vzcpucheck to determine how many CPUUNITS my HN has to use. When I attempt to run it, I get:

/usr/sbin/vzcpucheck
ERROR: Unknown format of /proc/fairsched column: weight not found

and I can see that my /proc/fairsched file is empty:

-r--r--r-- 1 root root 0 Apr 16 09:42 /proc/fairsched

I presume that this is yet another issue with the 2.6.15-025stab014.1 kernel that I unwisely chose but am now stuck with until such time as I want to commission a new box.

What I would like help on is either:

1. Getting the vzcpucheck working, or
2. If anyone else is running a Celeron 2.4 with 1GB RAM, perhaps that person could tell me how many CPUUNITS that machine has available. Perhaps I can use the same number and approximate the functionality.

The last thing I should mention is that in this particular case I want to allow this VPS to use all of the available CPU. In a weird quirk of fate this is the only VPS on this box and may remain so for some time so it seems desireable to give it all of the resources.

Perhaps there is some way to assign all of the avaialable CPU to a VE without knowing the CPUUNITS value of the HN?

Thanks!

Jon

Subject: Re: Need CPUUNITS Value for Celeron 2.4
Posted by kir on Mon, 23 Apr 2007 05:32:31 GMT
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1. You should not rely on file size in /proc, since those files are not really files, but some interfaces from the kernel. So if you run cat /proc/fairsched and post the results here that will help us to see what the problem actually is (most probably in kernel but still makes sense to take a look).

2. Absolyte CPUUNITS value does not really makes sense, since the values set for VE made the system divide the CPU time proportionally. Say, if you have two VEs and set those cpuunits to 1000, and when run CPU intensive tasks in each VE, they will consume 50% CPU time each. If you set both VEs' cpuunits to 100, it will mean the same. If you set both VEs' cpuunits to 1, it will mean the same.

The case described above is the case when every VE has CPU-intensive tasks running, so all VEs are fighting hard for CPU time. In case one VE is doing nothing, the other one can consume all the CPU, and it doesn't matter what the cpuunits are. So, cpuunits makes sense if and only if there is not enough CPU time at the moment.

Now note that the above didn't take into account VE0 cpuunits. VE0 is quite important, since some important system processes runs in it. VE0 cpuunits should be reasonably high (not lower than those of VEs).

So, answering your question: in case of a single VE you can set its cpuunits to the same value as set for VE0 (see VE0CPUUNITS parameter in /etc/vz/vz.conf, default is 1000). That will mean your VE will have the same CPU priority as the host system itself.

Subject: Re: Need CPUUNITS Value for Celeron 2.4
Posted by jonwatson on Fri, 18 May 2007 14:48:27 GMT
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Sorry it took me so long to respond to this. Thanks for the information, that was helpful and seems to be working.

Jon
