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Subject: Incorrect load average

Posted by [sspt](#) on Sun, 30 Sep 2007 12:19:37 GMT

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The host load average seems to be a sum of the VPS laverage:

```
[root@xx ~]# vzlist -o laverage,cpulimit
```

```
LAVERAGE CPULIM
```

```
0.00/0.00/0.00 0
```

```
0.00/0.00/0.00 0
```

```
3.54/2.82/1.79 26
```

```
0.00/0.00/0.00 0
```

```
0.00/0.00/0.00 0
```

```
top - 05:12:05 up 15 days, 19:49, 1 user, load average: 3.56, 2.82, 1.78
```

```
Tasks: 291 total, 3 running, 288 sleeping, 0 stopped, 0 zombie
```

```
Cpu(s): 0.2%us, 6.3%sy, 0.0%ni, 92.9%id, 0.1%wa, 0.0%hi, 0.5%si, 0.0%st
```

```
Mem: 8140924k total, 6908692k used, 1232232k free, 647508k buffers
```

```
Swap: 2031608k total, 28k used, 2031580k free, 5522328k cached
```

When we limit the cpu the host load average gets higher

```
top - 05:12:05 up 15 days, 19:49, 1 user, load average: 3.56, 2.82, 1.78
```

but the real usage get's lower (as it should)

```
Cpu(s): 0.2%us, 6.3%sy, 0.0%ni, 92.9%id, 0.1%wa, 0.0%hi, 0.5%si, 0.0%st
```

Shouldn't the host load average be calculated based on the host stats instead of the vps stats?

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Subject: Re: Incorrect load average

Posted by [rickb](#) on Mon, 01 Oct 2007 18:12:28 GMT

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HN Load avg is the number of procs in the runqueue. If a VE has a very low cpulimit, it can have a high load despite low amounts of work being done (high amount of idle cpu %). Due to this, the HN load can be very deceiving.

For example- take a VE, set cpulimit to 2, start it, and run 100 cpuburn processes inside. now look at you HN's load and also the idle/user cpu %. you will see the cpus are doing almost nothing yet the load is around 100.

Rick

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