
Subject: Re: Dstat plugin for OpenVZ CPU statistics

Posted by [kir](#) on Mon, 16 Oct 2006 10:57:38 GMT

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Dag,

Thank you! I actually use dstat on my Gentoo note.

Speaking of counters, `/proc/user_beancounters` is of interest to any OpenVZ user. Format is described at http://wiki.openvz.org/proc/user_beancounters. "held" and "failcnt" columns are most "dynamic". You can use the values either directly, or make some consolidated figures based of formulae in wiki.

Other thing that might be of interest is `/proc/fairsched{,2}`. These files are from OpenVZ Fair CPU scheduler. The only problem is looks like the format is not documented (well, not counting the source code).

Also, Kirill Korotaev will give us some suggestions...

Dag Wieers wrote:

> Hi,

>

> I've just written a small dstat plugin to monitor CPU usage per VE. You

> can find the plugin in the dstat subversion repository linked from:

>

> <http://dag.wieers.com/home-made/dstat/>

>

> Dstat is much like vmstat, but modular and versatile. So you can extend it

> with whatever counters you want to visualize, next to other counters. This

> helps to relate counters and find/troubleshoot bottlenecks.

>

> This plugin can help to find the most consuming VE, or visualize how VE's

> are matching up to each other (and the system CPU usage).

>

> I don't know whether the nice-value in `/proc/vz/vestat` is ever used (maybe

> I shouldn't add it in the list of counters).

>

> I also don't know what other information in `/proc/vz` would be interesting

> to visualize (over a timeframe). I'm willing to add more plugins in dstat

> for openvz if I know how to make more sense of the current counters (and

> their usefulness). Feedback from developers welcome :)

>

> Visually it looks like this (without colors though):

>

> [root@itmphys01 dstat]# ./dstat -M cpu,vz -f 5

> Module dstat_vz is still experimental.

> -----cpu0-usage-----cpu1-usage----- --ve-301-usage----ve-302-usage-

```
> usr sys idl wai hiq siq|usr sys idl wai hiq siq|usr sys idl nic:usr sys idl nic
> 0 0 99 0 0 0: 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 25 15 50 10 0 0: 1 1 76 22 0 1| 26 15 60 0: 0 0 100 0
> 31 18 12 40 0 0: 2 2 70 25 0 1| 33 19 49 0: 0 0 100 0
> 16 14 35 35 0 0: 0 1 53 46 0 0| 16 14 70 0: 0 0 100 0
> 5 5 59 30 0 0: 16 28 30 26 0 0| 20 32 47 0: 0 0 100 0
> 0 0 100 0 0 0: 3 5 88 5 0 0| 2 5 93 0: 0 0 100 0
> 0 0 98 1 0 0: 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 100 0 0 0: 0 0 98 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 96 4 0 0: 0 3 97 0 0 0| 0 0 100 0: 0 0 100 0
>
> [root@itmphys01 dstat]# ./dstat -M cpu,vz -C total -f 5
> Module dstat_vz is still experimental.
> ----total-cpu-usage---- --ve-301-usage----ve-302-usage-
> usr sys idl wai hiq siq|usr sys idl nic:usr sys idl nic
> 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 97 2 0 0| 0 0 100 0: 0 0 100 0
> 19 12 61 8 0 0| 37 23 40 0: 0 0 100 0
> 12 8 41 38 0 0| 25 15 61 0: 0 0 100 0
> 14 14 35 37 0 0| 28 26 46 0: 0 0 100 0
> 4 10 84 3 0 0| 7 20 73 0: 0 0 100 0
> 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 99 1 0 0| 0 0 100 0: 0 0 100 0
> 0 0 100 0 0 0| 0 0 100 0: 0 0 100 0
>
> All feedback welcomed.
>
> Kind regards,
> -- dag wieers, dag@wieers.com, http://dag.wieers.com/ --
> [all I want is a warm bed and a kind word and unlimited power]
```
