
Subject: Re: occasional high loadavg without any noticeable cpu/memory/io load
Posted by [Rene Dokbua](#) on Tue, 22 May 2012 10:49:20 GMT
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Hi Esme,

> Did you check the /proc/user_beancounters of that VPS? Sometime's a high load could be caused by buffers that are full.

Thanks for the suggestion, much appreciated!

I didn't think of checking at the time I'm afraid. I suppose since the container has not been rebooted since, the beancounters should still show any problems encountered at the time right?

Below is the user_beancounters of the problem CT. I notice physpages and dcachesize have maxheld values very close to limits (even if failcnt is zero) could that have been the cause?

uid	resource	limit	held	maxheld	failcnt
1407:	kmemsize		252703307	1124626432	
1932525568		2147483648		0	
	lockedpages		0	15	
524288		524288	0		
	privvmpages		893372	5683554	
9223372036854775807			9223372036854775807		0
	shmpages		23	7399	
9223372036854775807			9223372036854775807		0
	dummy		0	0	
0		0	0		
	numproc		136	480	
9223372036854775807			9223372036854775807		0
	physpages		733468	1048591	
0		1048576	0		
	vmguarpages		0	0	
0	9223372036854775807			0	
	oomguarpages		137691	676209	
0	9223372036854775807			0	
	numtcpsock		101	459	
9223372036854775807			9223372036854775807		0
	numflock		7	37	
9223372036854775807			9223372036854775807		0
	numpty		1	4	
9223372036854775807			9223372036854775807		0
	numsiginfo		0	66	
9223372036854775807			9223372036854775807		0

tcpsndbuf	4024896	34884168	
9223372036854775807	9223372036854775807		0
tcprcvbuf	1654784	7520256	
9223372036854775807	9223372036854775807		0
othersockbuf	195136	3887232	
9223372036854775807	9223372036854775807		0
dgramrcvbuf	0	155848	
9223372036854775807	9223372036854775807		0
numothersock	130	346	
9223372036854775807	9223372036854775807		0
dcachesize	222868425	1073741824	
965738496	1073741824	0	
numfile	3853	12765	
9223372036854775807	9223372036854775807		0
dummy	0	0	
0	0	0	
dummy	0	0	
0	0	0	
dummy	0	0	
0	0	0	
numiptent	197	197	
9223372036854775807	9223372036854775807		0

I'm not that familiar with the nitty-gritties of the beancounters but these are the values I have in the 1407.conf file.

```

PHYSFILES="0:4096M"
SWAPPAGES="0:8192M"
KMEMSIZE="1843M:2048M"
DCACHESIZE="921M:1024M"
LOCKEDPAGES="2048M"
PRIVVMPAGES="unlimited"
SHMPAGES="unlimited"
NUMPROC="unlimited"
VMGUARPAGES="0:unlimited"
OOMGUARPAGES="0:unlimited"
NUMTCPSOCK="unlimited"
NUMFLOCK="unlimited"
NUMPTY="unlimited"
NUMSIGINFO="unlimited"
TCPSNDBUF="unlimited"
TCPRCVBUF="unlimited"
OTHERSOCKBUF="unlimited"
DGRAMRCVBUF="unlimited"
NUMOTHERSOCK="unlimited"
NUMFILE="unlimited"
NUMIPTENT="unlimited"

```

When user_beancounters physpage limit is 1048576, with PHYSPAGES set to 4GB, then the held value of 733468 should correspond to about 3GB, right? But top only shows about 1.5GB used at the same time - how is that possible?

dcachesize I think is filesystem stuff? But there seems to be plenty of resources there;

```
# df -i
Filesystem      Inodes  IUsed  IFree IUse% Mounted on
/dev/simfs      20000000 3046139 16953861  16% /
none           524288   109 524179   1% /dev
# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/simfs      492G  156G  312G  34% /
none           2.0G   4.0K  2.0G   1% /dev
```

Best,
Rene
