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Subject: Re: Fine Tuning system resources and power of VE / asterisk optimizations

Posted by [explidous](#) on Wed, 26 Nov 2008 14:01:26 GMT

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Some more information om this problem...

- VE0 shows barely any load / CPU utilization usually < 10%
- Guest VEs show frequently 100% usage on all 8 CPU cores.
- processes seem to be stalled and system/kernel time is very/unusually high on the guest VEs

System should have plenty of power available but obviously it does not get to the guests...

root@vici106:~# cat /proc/user\_beancounters

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
106:	kmemsize	36701631	48079881	1690776371		1859854008
	0					
	lockedpages	0	0	82557	82557	0
	privvmpages	97219	126466	4953446	5448790	
0						
	shmpages	16398	29287	495344	495344	
0						
	dummy	0	0	0	0	0
	numproc	163	246	41278	41278	0
	physpages	57903	79643	0	9223372036854775807	
0						
	vmguarpages	0	0	3332643	9223372036854775807	
0						
	oomguarpages	57903	79643	3332643	9223372036854775807	
	0					
	numtcpsock	79	128	41278	41278	0
	numflock	6	8	1000	1100	0
	numpty	9	10	512	512	0
	numsiginfo	5	16	1024	1024	0
	tcpsndbuf	1605888	6303744	394517435	563592123	
0						
	tcprcvbuf	1826560	2740224	394517435	563592123	
0						
	othersockbuf	39168	70144	197258717	366333405	
0						
	dgramrcvbuf	0	487424	197258717	197258717	
0						
	numothersock	21	35	41278	41278	0
	dcachesize	503685	625086	369337910	380418048	
0						
	numfile	5757	6657	660448	660448	0
	dummy	0	0	0	0	0

```

dummy          0          0          0          0          0
dummy          0          0          0          0          0
numiptent     10         10         200        200         0
root@vici106:~#

```

```

top
Linux vici106 2.6.24-openvz #2 SMP Fri Oct 31 23:39:58 CET 2008 x86_64

```

```

root@vici106:~# cat /proc/user_beancounters
Version: 2.5

```

uid	resource	held	maxheld	barrier	limit	failcnt
106:	kmemsize	36701631	48079881	1690776371		1859854008
0	lockedpages	0	0	82557	82557	0
0	privvmpages	97219	126466	4953446	5448790	
0	shmpages	16398	29287	495344	495344	
0	dummy	0	0	0	0	0
0	numproc	163	246	41278	41278	0
0	physpages	57903	79643	0	9223372036854775807	
0	vmguarpages	0	0	3332643	9223372036854775807	
0	oomguarpages	57903	79643	3332643	9223372036854775807	
0	numtcpsock	79	128	41278	41278	0
0	numflock	6	8	1000	1100	0
0	numpty	9	10	512	512	0
0	numsiginfo	5	16	1024	1024	0
0	tcpsndbuf	1605888	6303744	394517435	563592123	
0	tcprcvbuf	1826560	2740224	394517435	563592123	
0	othersockbuf	39168	70144	197258717	366333405	
0	dgramrcvbuf	0	487424	197258717	197258717	
0	numothersock	21	35	41278	41278	0
0	dcachesize	503685	625086	369337910	380418048	
0	numfile	5757	6657	660448	660448	0
0	dummy	0	0	0	0	0
0	dummy	0	0	0	0	0
0	dummy	0	0	0	0	0
0	numiptent	10	10	200	200	0

```

root@vici106:~# top
top - 14:52:53 up 3:47, 1 user, load average: 1.22, 0.87, 0.75
Tasks: 102 total, 1 running, 101 sleeping, 0 stopped, 0 zombie
Cpu0 : 50.0%us, 50.0%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu1 : 75.0%us, 25.0%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu2 : 73.3%us, 26.7%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu3 : 0.0%us, 0.0%sy, 0.0%ni, 100.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu4 : 40.9%us, 59.1%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu5 : 79.2%us, 20.8%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu6 : 50.0%us, 50.0%sy, 0.0%ni, 0.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu7 : 9.5%us, 3.2%sy, 0.0%ni, 87.3%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 19813784k total, 401188k used, 19412596k free, 0k buffers
Swap: 0k total, 0k used, 0k free, 0k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
530 root 20 0 518m 17m 4996 S 17 0.1 17:05.63 asterisk
561 root 20 0 48184 9552 2612 S 2 0.0 5:23.39 AST_update.pl
32205 root 20 0 41800 7260 2528 S 2 0.0 0:00.07 agi-VDAD_ALL_ou
32216 root 20 0 41800 7256 2528 S 2 0.0 0:00.06 agi-VDAD_ALL_ou
32201 root 20 0 26688 6120 1788 S 2 0.0 0:00.05 AST_send_action
32186 root 20 0 26688 6128 1788 S 1 0.0 0:00.04 AST_send_action
569 root 20 0 44300 9812 2532 S 0 0.0 0:35.67 AST_VDauto_dial
576 root 20 0 41484 10m 2480 S 0 0.1 0:30.53 AST_VDadapt.pl
630 root 20 0 53876 9948 1452 S 0 0.1 0:02.90 FastAGI_log.pl
631 root 20 0 53876 9948 1452 S 0 0.1 0:02.77 FastAGI_log.pl
7278 www-data 20 0 198m 10m 5764 S 0 0.1 0:02.91 apache2
7737 www-data 20 0 198m 11m 5888 S 0 0.1 0:03.32 apache2
11342 www-data 20 0 198m 11m 5856 S 0 0.1 0:02.49 apache2
13932 www-data 20 0 198m 9624 4600 S 0 0.0 0:02.09 apache2
16468 www-data 20 0 199m 10m 5516 S 0 0.1 0:03.36 apache2
16479 www-data 20 0 198m 10m 5452 S 0 0.1 0:01.85 apache2
24286 www-data 20 0 198m 9.9m 5100 S 0 0.1 0:00.93 apache2
24287 www-data 20 0 198m 10m 5244 S 0 0.1 0:01.00 apache2
25023 www-data 20 0 198m 10m 5160 S 0 0.1 0:01.34 apache2
25581 www-data 20 0 198m 9m 5176 S 0 0.1 0:00.75 apache2
27031 www-data 20 0 198m 9148 4140 S 0 0.0 0:00.58 apache2
27089 www-data 20 0 198m 9552 4536 S 0 0.0 0:00.70 apache2
27092 www-data 20 0 198m 9572 4524 S 0 0.0 0:00.59 apache2

```

Sometimes it even looks worse.

```

top on VE0 at about the same time:
Linux vicidial 2.6.24-openvz #2 SMP Fri Oct 31 23:39:58 CET 2008 x86_64

```

```

Last login: Wed Nov 26 13:38:19 2008 from
xxx@vicidial:~$ top
top - 14:55:08 up 5 days, 11:55, 1 user, load average: 0.77, 0.76, 0.72

```

```

Tasks: 242 total,  1 running, 241 sleeping,  0 stopped,  0 zombie
Cpu0  : 2.0%us, 0.3%sy, 0.0%ni, 97.7%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu1  : 2.0%us, 1.0%sy, 0.0%ni, 97.0%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu2  : 0.0%us, 0.7%sy, 0.0%ni, 99.3%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu3  : 0.3%us, 0.3%sy, 0.0%ni, 99.4%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Cpu4  : 4.0%us, 4.0%sy, 0.6%ni, 89.1%id, 0.0%wa, 0.0%hi, 2.3%si, 0.0%st
Cpu5  : 1.5%us, 0.9%sy, 0.0%ni, 97.3%id, 0.0%wa, 0.0%hi, 0.3%si, 0.0%st
Cpu6  : 1.2%us, 0.9%sy, 0.0%ni, 97.6%id, 0.0%wa, 0.0%hi, 0.3%si, 0.0%st
Cpu7  : 12.7%us, 3.4%sy, 0.0%ni, 82.1%id, 0.0%wa, 0.3%hi, 1.5%si, 0.0%st
Mem: 33022976k total, 8305536k used, 24717440k free, 177108k buffers
Swap: 33559704k total, 0k used, 33559704k free, 7142256k cached

```

```

PID USER   PR  NI  VIRT  RES  SHR  S %CPU %MEM  TIME+  COMMAND
1419 root    20   0 518m 17m 4996 S   5 0.1 17:19.07 asterisk
1457 root    20   0 48184 9552 2612 S   3 0.0  5:27.31 AST_update.pl
4396 root    20   0 41800 7260 2528 S   2 0.0  0:00.07 agi-VDAD_ALL_ou
 303 www-data 20   0 198m 9996 4964 S   0 0.0  0:00.47 apache2
1458 root    20   0 23592 1020 600  S   0 0.0  0:00.61 screen
1460 root    20   0 41268 6772 2536 S   0 0.0  0:49.39 AST_manager_sen
1465 root    20   0 44300 9832 2532 S   0 0.0  0:36.14 AST_VDauto_dial
1472 root    20   0 41600 10m 2480 S   0 0.0  0:30.83 AST_VDadapt.pl
1528 root    20   0 53876 9952 1452 S   0 0.0  0:02.86 FastAGI_log.pl
1676 www-data 20   0 198m 9636 4188 S   0 0.0  0:00.53 apache2

```

and here

```

root@vicidia:/etc/vz/conf# vzcpucheck -v
VEID      CPUUNITS
-----
0          5000
106       250000
Current CPU utilization: 255000
Power of the node: 880229

```