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Subject: Re: Limiting CPU for tasks on HN ?  
Posted by [geejay](#) on Sun, 28 Sep 2008 06:24:27 GMT  
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maratrus wrote on Sat, 27 September 2008 16:33Hello,

OpenVZ user's guide  
<http://download.openvz.org/doc/OpenVZ-Users-Guide.pdf>  
Managing Resources --> Managing CPU Share

Maratrus,

```
vzcpucheck -v
VEID      CPUUNITS
-----
0          1000
102        83333
Current CPU utilization: 84333
Power of the node: 159866
```

there is only one VPS on the HN which has been allocated 80000 CPUUNITS

If I do a copy of several GB on the HN the VPS becomes unresponsive. The VPS is running a VoIP application, Asterisk.

SIP clients cannot initiate new calls while the copying on the HN happens. Typically the VPS would use maximum 2% CPU to initiate a call. So there should not be any problem with resources. Beancounters also show that everything is running fine. Also I can see that the VPS receives the SIP messages over the network, but Asterisk stalls and does not process the call. IMVHO the CPU scheduler does not work.

Something is definitely not working as suggested in the Openvz manual.

How can debug this problem ?

I should perhaps mention that the VPS was converted from a physical machine. On startup it throws the following error:

```
Sep 28 08:26:49 onl3 sysctl: error: unknown error 1 setting key 'kernel.sysrq'
Sep 28 08:26:49 onl3 sysctl: error: unknown error 1 setting key 'kernel.core_uses_pid'
Sep 28 08:26:49 online rc.sysinit: Configuring kernel parameters: failed
```

However on the HN sysctl shows no errors:

```
sysctl -p
net.ipv4.ip_forward = 1
kernel.shmmax = 4294967295
kernel.msgmax = 65536
kernel.msgmnb = 65536
```

```

net.ipv4.conf.all.rp_filter = 1
net.ipv4.conf.default.rp_filter = 1
net.ipv4.icmp_echo_ignore_broadcasts = 1
net.ipv4.conf.default.proxy_arp = 0
kernel.sysrq = 1
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.default.accept_source_route = 0
net.ipv4.conf.all.send_redirects = 0
kernel.shmall = 268435456
net.ipv4.conf.default.send_redirects = 1
kernel.core_uses_pid = 1
net.ipv4.tcp_syncookies = 1

```

cat /proc/user\_beancounters

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt	
102:	kmemsize	3265249	4588138	11055923	11377049		0
	lockedpages	0	0	3000	3000	0	
	privvmpages	18487	34351	250000	250000	0	
	shmpages	1293	1309	21504	21504	0	
	dummy	0	0	0	0		
	numproc	57	67	240	240	0	
	physpages	9821	24879	0	2147483647	0	
	vmguarpages	0	0	33792	2147483647	0	
	oomguarpages	9821	24879	200000	2147483647		0
	numtcpsock	9	23	360	360	0	
	numflock	4	10	188	206	0	
	numpty	2	2	16	16	0	
	numsiginfo	0	9	256	256	0	
	tcpsndbuf	87204	229160	1720320	2703360		0
	tcprcvbuf	147456	326676	1720320	2703360		0
	othersockbuf	34240	174280	1126080	2097152		0
	dgramrcvbuf	0	32412	500000	500000		0
	numothersock	22	32	360	360	0	
	dcachesize	0	0	3409920	3624960		0
	numfile	1389	1546	9312	9312	0	
	dummy	0	0	0	0		
	dummy	0	0	0	0		
	dummy	0	0	0	0		
	numiptent	26	26	128	128	0	