
Subject: Re: Committed_AS = 4TB

Posted by [Vasily Tarasov](#) on Tue, 08 May 2007 08:46:02 GMT

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Hello,

For me it seems to be strange too... Can you, please, post the output of /proc/user_beancounters here in order to see which VE allocates so much memory.

Thanks,
Vasily.

On Mon, 2007-05-07 at 15:27 +0200, Jan Tomasek wrote:

> Hello,

>

> my system have Committed_AS: 4253406264 kB, it is not causing any
> problems (except of munin which is drawing just line on zero). I found
> this explanation:

>

> # Committed_AS: An estimate of how much RAM you would need to make a
> 99.99% guarantee that there never is OOM (out of memory) for this
> workload. Normally the kernel will overcommit memory. That means, say
> you do a 1GB malloc, nothing happens, really. Only when you start USING
> that malloc memory you will get real memory on demand, and just as much
> as you use. So you sort of take a mortgage and hope the bank doesn't go
> bust. Other cases might include when you mmap a file that's shared only
> when you write to it and you get a private copy of that data. While it
> normally is shared between processes. The Committed_AS is a guesstimate
> of how much RAM/swap you would need worst-case.

>

> <http://www.redhat.com/advice/tips/meminfo.html>

>

> I'm having troubles to identify who allocated that much memory.

>

> > top - 15:16:17 up 29 days, 5:02, 2 users, load average: 7.01, 6.83, 6.66
> > Tasks: 460 total, 7 running, 452 sleeping, 1 stopped, 0 zombie
> > Cpu(s): 0.2%us, 1.4%sy, 76.0%ni, 22.4%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
> > Mem: 8303004k total, 8146708k used, 156296k free, 334560k buffers
> > Swap: 24579440k total, 196k used, 24579244k free, 6876788k cached

> >

> > PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

> > 16430 semik 10 -10 1215m 1.0g 1.0g S 2 13.1 133:56.51 vmware-vmx

> > 10950 root 18 0 1199m 66m 5784 S 0 0.8 0:39.85 java

> > 16463 semik 7 -10 533m 428m 410m S 1 5.3 58:29.35 vmware-vmx

```

> > 16446 semik    5 -10 391m 280m 266m S   5 3.5 245:58.27 vmware-vmx

> > 2575 www-data 21  0 225m 2936 1448 S   0 0.0  0:00.00 apache2

> > 2577 www-data 21  0 225m 2928 1452 S   0 0.0  0:00.00 apache2

> > 11128 25      24  0 96916 10m 2068 S   0 0.1  0:02.29 named
>
> rest of process have virt. mem size <<100MB.
>
> My system has 8GB of physical RAM. Runing 2.6.18-028stab023 and VMware
> Server - that might be source but... VMware workstation is not causing
> this (tested on other system). Meminfo:
>
> stj# cat /proc/meminfo
> MemTotal:      8303004 kB
> MemFree:       154140 kB
> Buffers:       334616 kB
> Cached:        6877772 kB
> SwapCached:    0 kB
> Active:        4035760 kB
> Inactive:      3536216 kB
> HighTotal:     7470840 kB
> HighFree:      132144 kB
> LowTotal:      832164 kB
> LowFree:       21996 kB
> SwapTotal:     24579440 kB
> SwapFree:      24579244 kB
> Dirty:         732 kB
> Writeback:     0 kB
> AnonPages:     359868 kB
> Mapped:        1814360 kB
> Slab:          464916 kB
> PageTables:    9756 kB
> NFS_Unstable:  0 kB
> Bounce:        0 kB
> CommitLimit:  28730940 kB
> Committed_AS: 4253406264 kB
> VmallocTotal: 118776 kB
> VmallocUsed:   42692 kB
> VmallocChunk:  75716 kB
>
> and vzmemcheck:
>
> > stj:/etc# vzmemcheck -v
> > Output values in %
> > veid      LowMem LowMem  RAM MemSwap MemSwap Alloc Alloc Alloc

```

```

> >      util commit  util  util commit  util commit  limit
> > 233003    0.15  1.31  0.03  0.01  0.09  0.01  0.09  0.66
> > 233250    1.26 11.88  0.49  0.12  0.20  0.40  0.20 38.39
> > 233104    0.14 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233103    0.17 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233107    0.17 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233106    0.16 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233105    0.16 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233102    0.18 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233101    0.18 10.67  0.03  0.01  0.18  0.01  0.18 38.37
> > 233009    0.42  9.13  0.11  0.03  0.17  0.05  0.17 38.36
> > 233249    0.92 10.67  0.60  0.15  0.18  1.52  0.18 38.37
> > 222119    0.44 10.67  0.12  0.03  0.18  0.05  0.18 38.37
> > 233008    1.22  9.13  1.01  0.26  0.17  3.85  0.17 38.36
> > 233006    1.11 10.67  1.34  0.34  0.18  0.37  0.18 38.37
> > 222121    0.17  9.13  0.03  0.01  0.17  0.01  0.17 38.36
> > 192002    0.24  4.64  0.04  0.01  0.12  0.01  0.12 38.31
> > -----
> > Summary:   7.09 151.91  3.97  1.00  2.73  6.35  2.73 576.18
>
>
> Does anybody know how to explain that 4TB?
>

```
