Subject: Maximum number of processes / threads of the OpenVZ HN?
Posted by markus on Fri, 06 Nov 2009 15:55:44 GMT
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Hi all,

I'm trying to virtualize a Java based application using the OpenVZ framework. Unfortunately I'm running into a strange max number of process and / or threads problem I'm currently unable to explain. Since I've ran out of ideas where to search for potential bottlenecks I'd like to ask for some advice.

The machine (CentOS 5.4, 64bit, 64GB Ram, 2x Xeon X5450) is running ten containers as vzlist shows:

```
[root@office-vm01]# vzlist
CTID      NPROC STATUS  IP_ADDR         HOSTNAME
4001         15 running 192.168.3.230   vdev-app01
4002         15 running 192.168.3.234   vdev-app02
4003         15 running 192.168.3.238   vdev-app03
4004         15 running 192.168.3.242   vdev-app04
4005         15 running 192.168.3.246   vdev-app05
4006         15 running 192.168.3.210   vdev-app06
4007         15 running 192.168.3.214   vdev-app07
4008         15 running 192.168.3.218   vdev-app08
4009         15 running 192.168.3.222   vdev-app09
4010         15 running 192.168.3.226   vdev-app10
```

Also /proc/user_beancounter is happy after the creation of the containers using the provided CentOS template of www.openvz.org:

```
4001: kmemsize     3548877 4540828 62914560000        69206016000 0
      lockedpages       0    9333       16384              16384 0
      privvmpages    8982   21381     2097152            2097152 0
      shmpages         31      31       21504              21504 0
      dummy             0       0           0                  0 0
      numproc          15      20       16384              16384 0
      physpages      4581   11954           0 9223372036854775807 0
      vmguarpages       0       0     1572864 9223372036854775807 0
      oomguarpages   4581   11954       26112 9223372036854775807 0
      numtcpsock        7       8        2048               2048 0
      numflock          5       9         188                206 0
      numpty            0       0          16                 16 0
      numsiginfo        0       3         256                256 0
      tcpsndbuf    122304       0     3440640            8719680 0
      tcprcvbuf    114688  754592     3440640            8719680 0
      othersockbuf  11600   26160     3440640            8719680 0
      dgramrcvbuf       0    8464      262144             262144 0
      numothersock     13      21         360                360 0
```

```
      dcachesize        0      0    71516160          71516160 0
      numfile         499     635      186240           186240 0
      dummy             0       0           0                0 0
      dummy             0       0           0                0 0
      dummy             0       0           0                0 0
      numiptent        20      20         128              128 0
4006: kmemsize     3544424 4458820 62914560000        69206016000 0
      lockedpages       0    9333       16384            16384 0
      privvmpages    9622   21228     2097152          2097152 0
      shmpages         31      31       21504            21504 0
      dummy             0       0           0                0 0
      numproc          15      20       16384            16384 0
      physspages      4584   11954           0 9223372036854775807 0
      vmguarpages       0       0     1572864 9223372036854775807 0
      oomguarpages    4584   11954       26112 9223372036854775807 0
      numtcpsock        7       8        2048             2048 0
      numflock          5       9         188              206 0
      numpty            0       0          16               16 0
      numsiginfo        0       3         256              256 0
      tcpsndbuf    122304       0     3440640          8719680 0
      tcprcvbuf    114688  875600     3440640          8719680 0
      othersockbuf  11600   25376     3440640          8719680 0
      dgramrcvbuf       0    8464      262144           262144 0
      numothersock     13      21         360              360 0
      dcachesize        0       0    71516160          71516160 0
      numfile         499     640      186240           186240 0
      dummy             0       0           0                0 0
      dummy             0       0           0                0 0
      dummy             0       0           0                0 0
      numiptent        20      20         128              128 0
```

The limitations where changed to match the needs of the Java application which will need ~5,5GB ram so that the guaranteed memory was set to ~6GB and the dynamic ram to ~8GB.

I've picked container 4001 and 4006 on purpose since 4006 will be the container I'll run into the process and / or thread limit later. Here's the configuration file of container 4001:

```
[root@office-vm01 openVZ]# cat /etc/vz/conf/4001.conf
ONBOOT="yes"

# UBC parameters (in form of barrier:limit)
KMEMSIZE="62914560000:69206016000"
LOCKEDPAGES="16384:16384"
PRIVVMPAGES="2097152:2097152"
SHMPAGES="21504:21504"
NUMPROC="16384:16384"
PHYSPAGES="0:9223372036854775807"
VMGUARPAGES="1572864:9223372036854775807"
```

```
OOMGUARPAGES="26112:9223372036854775807"
NUMTCPSOCK="2048:2048"
NUMFLOCK="188:206"
NUMPTY="16:16"
NUMSIGINFO="256:256"
TCPSNDBUF="3440640:8719680"
TCPRCVBUF="3440640:8719680"
OTHERSOCKBUF="3440640:8719680"
DGRAMRCVBUF="262144:262144"
NUMOTHERSOCK="360:360"
DCACHESIZE="71516160:71516160"
NUMFILE="186240:186240"
AVNUMPROC="180:180"
NUMIPTENT="128:128"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="20971520:20971520"
DISKINODES="200000:220000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="10000"

IP_ADDRESS="192.168.3.230 192.168.3.231 192.168.3.232 192.168.3.233"
HOSTNAME="vdev-app01"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-5.4-x86_64"
ORIGIN_SAMPLE="vps.basic"
NAME="vdev01"
NAMESERVER="192.168.0.227 192.168.0.236"
NOATIME="yes"
```

Container 4006 has the exact same configuration expect the IP_ADDRESS variable. After I've deployed the Java application to all ten containers I have sometimes a failure count in the 'othersockbuf' that I can't explain since the 'maxheld' value was never as high as the 'barrier' and / or the 'limit' value:

```
4001: kmemsize     3614323 5913272 62914560000        69206016000 0
      lockedpages       0    9333       16384              16384 0
      privvmpages    8987   21381     2097152            2097152 0
      shmpages         31     687       21504              21504 0
      dummy             0       0           0                  0 0
      numproc          15      22       16384              16384 0
      physspages     4599   11954           0 9223372036854775807 0
      vmguarpages       0       0     1572864 9223372036854775807 0
      oomguarpages   4599   11954       26112 9223372036854775807 0
      numtcpsock        7      11        2048               2048 0
```

```
      numflock          5       9        188              206 0
      numpty            0       0        16               16 0
      numsiginfo        0       3        256              256 0
      tcpsndbuf     122304       0     3440640           8719680 0
      tcprcvbuf     114688  754592     3440640           8719680 0
      othersockbuf   11600 1083344     3440640           8719680 0
      dgramrcvbuf       0    8464      262144            262144 0
      numothersock     13      29         360               360 0
      dcachesize        0       0    71516160          71516160 0
      numfile         511     697      186240            186240 0
      dummy             0       0           0                 0 0
      dummy             0       0           0                 0 0
      dummy             0       0           0                 0 0
      numiptent        20      20         128               128 0
4006: kmemsize     3572403 5434118 62914560000        69206016000 0
      lockedpages       0    9333       16384             16384 0
      privvmpages    9627   21228     2097152           2097152 0
      shmpages         31     687       21504             21504 0
      dummy             0       0           0                 0 0
      numproc          15      22       16384             16384 0
      physspages     4603   11954           0 9223372036854775807 0
      vmguarpages       0       0     1572864 9223372036854775807 0
      oomguarpages    4603   11954       26112 9223372036854775807 0
      numtcpsock        7      11        2048              2048 0
      numflock          5       9         188               206 0
      numpty            0       0          16                16 0
      numsiginfo        0       3         256               256 0
      tcpsndbuf     122304       0     3440640           8719680 0
      tcprcvbuf     114688  875600     3440640           8719680 0
      othersockbuf   11600 2265168     3440640           8719680 1
      dgramrcvbuf       0    8464      262144            262144 0
      numothersock     13      29         360               360 0
      dcachesize        0       0    71516160          71516160 0
      numfile         512     699      186240            186240 0
      dummy             0       0           0                 0 0
      dummy             0       0           0                 0 0
      dummy             0       0           0                 0 0
      numiptent        20      20         128               128 0
```

After that I've started the Java application in the 4001 -> 4005 containers without any problems. vzlist shows that those containers are running some more processes and threads:

```
[root@office-vm01]# vzlist
CTID      NPROC STATUS  IP_ADDR         HOSTNAME
4001       3102 running 192.168.3.230   vdev-app01
4002       3102 running 192.168.3.234   vdev-app02
4003       3105 running 192.168.3.238   vdev-app03
4004       3092 running 192.168.3.242   vdev-app04
```

```
4005       3096 running 192.168.3.246   vdev-app05
4006         15 running 192.168.3.210   vdev-app06
4007         15 running 192.168.3.214   vdev-app07
4008         15 running 192.168.3.218   vdev-app08
4009         15 running 192.168.3.222   vdev-app09
4010         15 running 192.168.3.226   vdev-app10
```

Also the /proc/user_beancounter for container 4001 is showing some load but no higher failure count numbers:

```
4001: kmemsize     102811303 106541747 62914560000        69206016000 0
      lockedpages          0      9333       16384              16384 0
      privvmpages    1439585   1649118     2097152            2097152 0
      shmpages           671       687       21504              21504 0
      dummy                0         0           0                  0 0
      numproc           3102      3207       16384              16384 0
      physpages       530784    550932           0 9223372036854775807 0
      vmguarpages          0         0     1572864 9223372036854775807 0
      oomguarpages     530784    550932       26112 9223372036854775807 0
      numtcpsock          915      1028        2048               2048 0
      numflock              6         9         188                206 0
      numpty                1         1          16                 16 0
      numsiginfo            0         3         256                256 0
      tcpsndbuf        495328    778976     3440640            8719680 0
      tcprcvbuf        428944   1115152     3440640            8719680 0
      othersockbuf      16240   1083344     3440640            8719680 0
      dgramrcvbuf           0      8464      262144             262144 0
      numothersock         22        29         360                360 0
      dcachesize            0         0    71516160           71516160 0
      numfile           55559     58090      186240             186240 0
      dummy                 0         0           0                  0 0
      dummy                 0         0           0                  0 0
      dummy                 0         0           0                  0 0
      numiptent            20        20         128                128 0
4006: kmemsize       3561586   5434118 62914560000        69206016000 0
      lockedpages          0      9333       16384              16384 0
      privvmpages       9627     21228     2097152            2097152 0
      shmpages            31       687       21504              21504 0
      dummy                 0         0           0                  0 0
      numproc              15        22       16384              16384 0
      physpages          4615     11954           0 9223372036854775807 0
      vmguarpages           0         0     1572864 9223372036854775807 0
      oomguarpages       4615     11954       26112 9223372036854775807 0
      numtcpsock            7        11        2048               2048 0
      numflock              5         9         188                206 0
      numpty                0         0          16                 16 0
      numsiginfo            0         3         256                256 0
      tcpsndbuf        122304         0     3440640            8719680 0
```

```
      tcprcvbuf       114688    875600     3440640           8719680 0
      othersockbuf     11600   2265168     3440640           8719680 1
      dgramrcvbuf          0      8464      262144            262144 0
      numothersock        13        29         360               360 0
      dcachesize           0         0    71516160          71516160 0
      numfile            512       699      186240            186240 0
      dummy                0         0           0                 0 0
      dummy                0         0           0                 0 0
      dummy                0         0           0                 0 0
      numiptent           20        20         128               128 0
```

If I now try to start the Java application on the 4006 container I'll run into this strange process / thread limitation which is somehow coming from the HN itself. The limit is not visible via the /proc/user_beancounter file. The easiest way to show you what I'm talking about is to show you the output of executing 'cat /proc/user_beancounter' in a ~1sec interval inside the container that currently tries to launch the Java application:

```
[root@vdev-app06 /]# cat /proc/user_beancounters
Version: 2.5
       uid  resource           held    maxheld    barrier              limit failcnt
4006:  kmemsize         11179878 14772652 62914560000        69206016000       0
       lockedpages             0     9333       16384              16384       0
       privvmpages        233420   645795     2097152            2097152       0
       shmpages              671      687       21504              21504       0
       dummy                   0        0           0                  0       0
       numproc               170      223       16384              16384       0
       physspages          56469    57822           0 9223372036854775807       0
       vmguarpages             0        0     1572864 9223372036854775807       0
       oomguarpages        56469    57822       26112 9223372036854775807       0
       numtcpsock             44       44        2048               2048       0
       numflock                5        9         188                206       0
       numpty                  2        2          16                 16       0
       numsiginfo              0        3         256                256       0
       tcpsndbuf          428880   528320     3440640            8719680       0
       tcprcvbuf          429568   875600     3440640            8719680       0
       othersockbuf        16240  2265168     3440640            8719680       1
       dgramrcvbuf             0     8464      262144             262144       0
       numothersock           20       29         360                360       0
       dcachesize              0        0    71516160           71516160       0
       numfile              5146     6016      186240             186240       0
       dummy                   0        0           0                  0       0
       dummy                   0        0           0                  0       0
       dummy                   0        0           0                  0       0
       numiptent              20       20         128                128       0
[root@vdev-app06 /]# cat /proc/user_beancounters
-bash: fork: Resource temporarily unavailable
[root@vdev-app06 /]# cat /proc/user_beancounters
Version: 2.5
```

```
  uid  resource         held  maxheld     barrier             limit failcnt
 4006:  kmemsize     13195939 15401866 62914560000        69206016000       0
        lockedpages         0     9333       16384              16384       0
        privvmpages    286459   645795     2097152            2097152       0
        shmpages          671      687       21504              21504       0
        dummy               0        0           0                  0       0
        numproc           218      223       16384              16384       0
        physspages      71961    71961           0 9223372036854775807       0
        vmguarpages         0        0     1572864 9223372036854775807       0
        oomguarpages    71961    71961       26112 9223372036854775807       0
        numtcpsock         51       54        2048               2048       0
        numflock            5        9         188                206       0
        numpty              2        2          16                 16       0
        numsiginfo          0       28         256                256       0
        tcpsndbuf      426288   528320     3440640            8719680       0
        tcprcvbuf      429568   875600     3440640            8719680       0
        othersockbuf    16240  2265168     3440640            8719680       1
        dgramrcvbuf         0     8464      262144             262144       0
        numothersock       20       29         360                360       0
        dcachesize          0        0    71516160           71516160       0
        numfile          6627     6961      186240             186240       0
        dummy               0        0           0                  0       0
        dummy               0        0           0                  0       0
        dummy               0        0           0                  0       0
        numiptent          20       20         128                128       0
```

vzlist shows that container 4006 was able to start ~200 processes and threads and was not able to acquire more:

```
[root@office-vm01]# vzlist
CTID      NPROC STATUS  IP_ADDR         HOSTNAME
4001       3100 running 192.168.3.230   vdev-app01
4002       3101 running 192.168.3.234   vdev-app02
4003       3105 running 192.168.3.238   vdev-app03
4004       3100 running 192.168.3.242   vdev-app04
4005       3096 running 192.168.3.246   vdev-app05
4006        212 running 192.168.3.210   vdev-app06
4007         15 running 192.168.3.214   vdev-app07
4008         15 running 192.168.3.218   vdev-app08
4009         15 running 192.168.3.222   vdev-app09
4010         15 running 192.168.3.226   vdev-app10
```

'top' inside the 4006 container also doesn't show any memory problems:

```
top - 17:40:41 up  1:50,  1 user,  load average: 0.10, 0.05, 0.01
Tasks:  21 total,   1 running,  20 sleeping,   0 stopped,   0 zombie
Cpu(s):  0.0%us,  0.1%sy,  0.0%ni, 99.9%id,  0.0%wa,  0.0%hi,  0.0%si,  0.0%st
Mem:   8388608k total,   704544k used,  7684064k free,        0k buffers
```

Swap: 0k total, 0k used, 0k free, 0k cached

That's the problem I currently stuck with. I don't understand where this limitation is coming from and what I can do to solve it. I assume that the limitation is somehow coming from the OpenVZ HN itself since I get the same bash fork() errors on the host itself if it's reaching this limitation.

Does someone have an idea what I should focus on to solve this?

Here are some further settings of the HN:

```
[root@office-vm01]# cat /etc/redhat-release
CentOS release 5.4 (Final)
[root@office-vm01]# uname -a
Linux office-vm01 2.6.18-128.2.1.el5.028stab064.7 #1 SMP Wed Aug 26 15:47:17 MSD 2009
x86_64 x86_64 x86_64 GNU/Linux

[root@office-vm01]# top
top - 15:40:16 up  3:51,  1 user,  load average: 0.96, 0.76, 0.73
Tasks: 488 total,   1 running, 487 sleeping,   0 stopped,   0 zombie
Cpu(s):  1.8%us,  1.2%sy,  0.0%ni, 96.4%id,  0.0%wa,  0.0%hi,  0.6%si,  0.0%st
Mem:  64840324k total, 29940884k used, 34899440k free,   776176k buffers
Swap: 134215032k total,        0k used, 134215032k free, 16187164k cached

[root@office-vm01]# ulimit -a
core file size          (blocks, -c) 0
data seg size           (kbytes, -d) unlimited
scheduling priority             (-e) 0
file size               (blocks, -f) unlimited
pending signals                 (-i) 522240
max locked memory       (kbytes, -l) 32
max memory size         (kbytes, -m) unlimited
open files                      (-n) 40960
pipe size            (512 bytes, -p) 8
POSIX message queues     (bytes, -q) 819200
real-time priority              (-r) 0
stack size              (kbytes, -s) 10240
cpu time               (seconds, -t) unlimited
max user processes              (-u) 16384
virtual memory          (kbytes, -v) unlimited
file locks                      (-x) unlimited

[root@office-vm01]# cat /etc/security/limits.conf
*       soft    nofile  40960
*       hard    nofile  40960

*       soft    nproc   16384
*       hard    nproc   16384
```

```
[root@office-vm01]# cat /proc/sys/kernel/sem
250     32000   32      128

[root@office-vm01]# cat /proc/sys/kernel/shmall
4294967296

[root@office-vm01]# cat /proc/sys/kernel/shmmax
68719476736

[root@office-vm01]# cat /proc/sys/kernel/shmmni
4096

[root@office-vm01]# sysctl -a
sunrpc.rpc_src_addr = 0
sunrpc.abort_timeout = 2147483647
sunrpc.max_resvport = 1023
sunrpc.min_resvport = 665
sunrpc.tcp_slot_table_entries = 16
sunrpc.udp_slot_table_entries = 16
sunrpc.nlm_debug = 0
sunrpc.nfsd_debug = 0
sunrpc.nfs_debug = 0
sunrpc.rpc_debug = 0
dev.parport.default.spintime = 500
dev.parport.default.timeslice = 200
dev.cdrom.check_media = 0
dev.cdrom.lock = 1
dev.cdrom.debug = 0
dev.cdrom.autoeject = 0
dev.cdrom.autoclose = 1
dev.cdrom.info = CD-ROM information, Id: cdrom.c 3.20 2003/12/17
dev.cdrom.info =
dev.cdrom.info = drive name:  sr0
dev.cdrom.info = drive speed:  24
dev.cdrom.info = drive # of slots: 1
dev.cdrom.info = Can close tray:  1
dev.cdrom.info = Can open tray:  1
dev.cdrom.info = Can lock tray:  1
dev.cdrom.info = Can change speed: 1
dev.cdrom.info = Can select disk: 0
dev.cdrom.info = Can read multisession: 1
dev.cdrom.info = Can read MCN:  1
dev.cdrom.info = Reports media changed: 1
dev.cdrom.info = Can play audio:  1
dev.cdrom.info = Can write CD-R:  0
dev.cdrom.info = Can write CD-RW: 0
dev.cdrom.info = Can read DVD:  1
dev.cdrom.info = Can write DVD-R: 0
```

dev.cdrom.info = Can write DVD-RAM: 0
dev.cdrom.info = Can read MRW: 1
dev.cdrom.info = Can write MRW: 1
dev.cdrom.info = Can write RAM: 1
dev.cdrom.info =
dev.cdrom.info =
dev.scsi.logging_level = 0
dev.raid.speed_limit_max = 200000
dev.raid.speed_limit_min = 1000
dev.hpet.max-user-freq = 64
dev.rtc.max-user-freq = 64
crypto.fips_enabled = 0
ubc.dentry_watermark = 0 100
ubc.dentry_check = 10
abi.vsyscall32 = 0
kernel.ve_allow_kthreads = 1
kernel.vsyscall64 = 1
kernel./dummy-pde = 0
kernel.grsecurity.grsec_lock = 0
kernel.grsecurity.tpe_restrict_all = 0
kernel.grsecurity.tpe_gid = 0
kernel.grsecurity.tpe = 0
kernel.max_lock_depth = 1024
kernel.compat-log = 1
kernel.randomize_va_space = 1
kernel.bootloader_type = 113
kernel.panic_on_unrecovered_nmi = 0
kernel.unknown_nmi_panic = 0
kernel.ngroups_max = 65536
kernel.printk_ratelimit_burst = 10
kernel.printk_ratelimit = 5
kernel.panic_on_oops = 1
kernel.ve_meminfo = 0
kernel.virt_pids = 1
kernel.pid_max = 32768
kernel.fairsched-max-latency = 25
kernel.vcpu_timeslice = -1
kernel.vcpu_sched_timeslice = 5
kernel.overflowgid = 65534
kernel.overflowuid = 65534
kernel.pty.nr = 1
kernel.pty.max = 4096
kernel.random.uuid = 3bc7d61c-0524-4349-894f-61913953cc09
kernel.random.boot_id = 8dced53b-81e0-4406-8868-5cf3c1c735bd
kernel.random.write_wakeup_threshold = 128
kernel.random.read_wakeup_threshold = 64
kernel.random.entropy_avail = 175
kernel.random.poolsize = 4096

kernel.threads-max = 2044480
kernel.cad_pid = 1
kernel.sysrq-key = 99
kernel.vcpu_hot_timeslice = 4
kernel.sysrq = 1
kernel.sem = 250 32000 32 128
kernel.msgmnb = 65536
kernel.msgmni = 16
kernel.msgmax = 65536
kernel.shmmni = 4096
kernel.shmall = 4294967296
kernel.shmmax = 68719476736
kernel.acct = 4 2 30
kernel.hotplug =
kernel.modprobe = /sbin/modprobe
kernel.printk = 6 4 1 7
kernel.ctrl-alt-del = 0
kernel.alloc_fail_warn = 0
kernel.silence-level = 0
kernel.real-root-dev = 0
kernel.cap-bound = -257
kernel.tainted = 65
kernel.core_pattern = core
kernel.core_uses_pid = 1
kernel.print-fatal-signals = 0
kernel.exec-shield = 1
kernel.panic = 0
kernel.virt_osrelease = 2.6.18-128.2.1.el5.028stab064.7
kernel.domainname = (none)
kernel.hostname = office-vm01
kernel.version = #1 SMP Wed Aug 26 15:47:17 MSD 2009
kernel.osrelease = 2.6.18-128.2.1.el5.028stab064.7
kernel.ostype = Linux
kernel.sched_interactive = 2
fs.nfs.nfs_mountpoint_timeout = 500
fs.nfs.idmap_cache_timeout = 600
fs.nfs.nfs_callback_tcpport = 0
fs.nfs.nlm_tcpport = 0
fs.nfs.nlm_udpport = 0
fs.nfs.nlm_timeout = 10
fs.nfs.nlm_grace_period = 0
fs.mqueue.msgsize_max = 8192
fs.mqueue.msg_max = 10
fs.mqueue.queues_max = 256
fs.quota.warnings = 1
fs.quota.syncs = 629
fs.quota.free_dquots = 0
fs.quota.allocated_dquots = 0

fs.quota.cache_hits = 0
fs.quota.writes = 0
fs.quota.reads = 0
fs.quota.drops = 0
fs.quota.lookups = 0
fs.fsync-enable = 1
fs.ve-xattr-policy = 0
fs.ve-area-access-check = 0
fs.lsyscall_enable = 1
fs.snapapi_enable = 1
fs.odirect_enable = 0
fs.vsyscall = 0
fs.suid_dumpable = 0
fs.inotify.max_queued_events = 16384
fs.inotify.max_user_watches = 8192
fs.inotify.max_user_instances = 128
fs.aio-max-nr = 65536
fs.aio-nr = 0
fs.lease-break-time = 45
fs.dir-notify-enable = 1
fs.leases-enable = 1
fs.overflowgid = 65534
fs.overflowuid = 65534
fs.dentry-state = 211977 198168 45 0 0 0
fs.file-max = 6383212
fs.file-nr = 1020 0 6383212
fs.inode-state = 467345 267053 0 0 0 0 0
fs.inode-nr = 467345 267053
fs.binfmt_misc.status = enablednet.ipv6.conf.default.router_probe_interval = 60
net.ipv6.conf.default.accept_ra_rtr_pref = 1
net.ipv6.conf.default.accept_ra_pinfo = 1
net.ipv6.conf.default.accept_ra_defrtr = 1
net.ipv6.conf.default.max_addresses = 16
net.ipv6.conf.default.max_desync_factor = 600
net.ipv6.conf.default.regen_max_retry = 5
net.ipv6.conf.default.temp_prefered_lft = 86400
net.ipv6.conf.default.temp_valid_lft = 604800
net.ipv6.conf.default.use_tempaddr = 0
net.ipv6.conf.default.accept_dad = 1
net.ipv6.conf.default.disable_ipv6 = 0
net.ipv6.conf.default.force_mld_version = 0
net.ipv6.conf.default.router_solicitation_delay = 1
net.ipv6.conf.default.router_solicitation_interval = 4
net.ipv6.conf.default.router_solicitations = 3
net.ipv6.conf.default.dad_transmits = 1
net.ipv6.conf.default.autoconf = 1
net.ipv6.conf.default.accept_redirects = 1
net.ipv6.conf.default.accept_ra = 1

net.ipv6.conf.default.mtu = 1280
net.ipv6.conf.default.hop_limit = 64
net.ipv6.conf.default.forwarding = 1
net.ipv6.conf.all.router_probe_interval = 60
net.ipv6.conf.all.accept_ra_rtr_pref = 1
net.ipv6.conf.all.accept_ra_pinfo = 1
net.ipv6.conf.all.accept_ra_defrtr = 1
net.ipv6.conf.all.max_addresses = 16
net.ipv6.conf.all.max_desync_factor = 600
net.ipv6.conf.all.regen_max_retry = 5
net.ipv6.conf.all.temp_prefered_lft = 86400
net.ipv6.conf.all.temp_valid_lft = 604800
net.ipv6.conf.all.use_tempaddr = 0
net.ipv6.conf.all.accept_dad = 1
net.ipv6.conf.all.disable_ipv6 = 0
net.ipv6.conf.all.force_mld_version = 0
net.ipv6.conf.all.router_solicitation_delay = 1
net.ipv6.conf.all.router_solicitation_interval = 4
net.ipv6.conf.all.router_solicitations = 3
net.ipv6.conf.all.dad_transmits = 1
net.ipv6.conf.all.autoconf = 1
net.ipv6.conf.all.accept_redirects = 1
net.ipv6.conf.all.accept_ra = 1
net.ipv6.conf.all.mtu = 1280
net.ipv6.conf.all.hop_limit = 64
net.ipv6.conf.all.forwarding = 1
net.ipv6.conf.eth0.router_probe_interval = 60
net.ipv6.conf.eth0.accept_ra_rtr_pref = 1
net.ipv6.conf.eth0.accept_ra_pinfo = 1
net.ipv6.conf.eth0.accept_ra_defrtr = 1
net.ipv6.conf.eth0.max_addresses = 16
net.ipv6.conf.eth0.max_desync_factor = 600
net.ipv6.conf.eth0.regen_max_retry = 5
net.ipv6.conf.eth0.temp_prefered_lft = 86400
net.ipv6.conf.eth0.temp_valid_lft = 604800
net.ipv6.conf.eth0.use_tempaddr = 0
net.ipv6.conf.eth0.accept_dad = 1
net.ipv6.conf.eth0.disable_ipv6 = 0
net.ipv6.conf.eth0.force_mld_version = 0
net.ipv6.conf.eth0.router_solicitation_delay = 1
net.ipv6.conf.eth0.router_solicitation_interval = 4
net.ipv6.conf.eth0.router_solicitations = 3
net.ipv6.conf.eth0.dad_transmits = 1
net.ipv6.conf.eth0.autoconf = 1
net.ipv6.conf.eth0.accept_redirects = 1
net.ipv6.conf.eth0.accept_ra = 1
net.ipv6.conf.eth0.mtu = 1500
net.ipv6.conf.eth0.hop_limit = 64

net.ipv6.conf.eth0.forwarding = 1
net.ipv6.conf.lo.router_probe_interval = 60
net.ipv6.conf.lo.accept_ra_rtr_pref = 1
net.ipv6.conf.lo.accept_ra_pinfo = 1
net.ipv6.conf.lo.accept_ra_defrtr = 1
net.ipv6.conf.lo.max_addresses = 16
net.ipv6.conf.lo.max_desync_factor = 600
net.ipv6.conf.lo.regen_max_retry = 5
net.ipv6.conf.lo.temp_prefered_lft = 86400
net.ipv6.conf.lo.temp_valid_lft = 604800
net.ipv6.conf.lo.use_tempaddr = -1
net.ipv6.conf.lo.accept_dad = 1
net.ipv6.conf.lo.disable_ipv6 = 0
net.ipv6.conf.lo.force_mld_version = 0
net.ipv6.conf.lo.router_solicitation_delay = 1
net.ipv6.conf.lo.router_solicitation_interval = 4
net.ipv6.conf.lo.router_solicitations = 3
net.ipv6.conf.lo.dad_transmits = 1
net.ipv6.conf.lo.autoconf = 1
net.ipv6.conf.lo.accept_redirects = 1
net.ipv6.conf.lo.accept_ra = 1
net.ipv6.conf.lo.mtu = 16436
net.ipv6.conf.lo.hop_limit = 64
net.ipv6.conf.lo.forwarding = 1
net.ipv6.neigh.eth0.base_reachable_time_ms = 30000
net.ipv6.neigh.eth0.retrans_time_ms = 1000
net.ipv6.neigh.eth0.locktime = 0
net.ipv6.neigh.eth0.proxy_delay = 79
net.ipv6.neigh.eth0.anycast_delay = 99
net.ipv6.neigh.eth0.proxy_qlen = 64
net.ipv6.neigh.eth0.unres_qlen = 3
net.ipv6.neigh.eth0.gc_stale_time = 60
net.ipv6.neigh.eth0.delay_first_probe_time = 5
net.ipv6.neigh.eth0.base_reachable_time = 30
net.ipv6.neigh.eth0.retrans_time = 1000
net.ipv6.neigh.eth0.app_solicit = 0
net.ipv6.neigh.eth0.ucast_solicit = 3
net.ipv6.neigh.eth0.mcast_solicit = 3
net.ipv6.neigh.lo.base_reachable_time_ms = 30000
net.ipv6.neigh.lo.retrans_time_ms = 1000
net.ipv6.neigh.lo.locktime = 0
net.ipv6.neigh.lo.proxy_delay = 79
net.ipv6.neigh.lo.anycast_delay = 99
net.ipv6.neigh.lo.proxy_qlen = 64
net.ipv6.neigh.lo.unres_qlen = 3
net.ipv6.neigh.lo.gc_stale_time = 60
net.ipv6.neigh.lo.delay_first_probe_time = 5
net.ipv6.neigh.lo.base_reachable_time = 30

net.ipv6.neigh.lo.retrans_time = 1000
net.ipv6.neigh.lo.app_solicit = 0
net.ipv6.neigh.lo.ucast_solicit = 3
net.ipv6.neigh.lo.mcast_solicit = 3
net.ipv6.neigh.default.base_reachable_time_ms = 30000
net.ipv6.neigh.default.retrans_time_ms = 1000
net.ipv6.neigh.default.gc_thresh3 = 1024
net.ipv6.neigh.default.gc_thresh2 = 512
net.ipv6.neigh.default.gc_thresh1 = 128
net.ipv6.neigh.default.gc_interval = 30
net.ipv6.neigh.default.locktime = 0
net.ipv6.neigh.default.proxy_delay = 79
net.ipv6.neigh.default.anycast_delay = 99
net.ipv6.neigh.default.proxy_qlen = 64
net.ipv6.neigh.default.unres_qlen = 3
net.ipv6.neigh.default.gc_stale_time = 60
net.ipv6.neigh.default.delay_first_probe_time = 5
net.ipv6.neigh.default.base_reachable_time = 30
net.ipv6.neigh.default.retrans_time = 1000
net.ipv6.neigh.default.app_solicit = 0
net.ipv6.neigh.default.ucast_solicit = 3
net.ipv6.neigh.default.mcast_solicit = 3
net.ipv6.optimistic_dad = 0
net.ipv6.mld_max_msf = 64
net.ipv6.ip6frag_secret_interval = 600
net.ipv6.ip6frag_time = 60
net.ipv6.ip6frag_low_thresh = 196608
net.ipv6.ip6frag_high_thresh = 262144
net.ipv6.bindv6only = 0
net.ipv6.icmp.ratelimit = 1000
net.ipv6.route.gc_min_interval_ms = 500
net.ipv6.route.min_adv_mss = 1
net.ipv6.route.mtu_expires = 600
net.ipv6.route.gc_elasticity = 0
net.ipv6.route.gc_interval = 30
net.ipv6.route.gc_timeout = 60
net.ipv6.route.gc_min_interval = 0
net.ipv6.route.max_size = 4096
net.ipv6.route.gc_thresh = 1024
net.unix.max_dgram_qlen = 10
net.ipv4.ip_conntrack_max = 65536
net.ipv4.netfilter.ip_conntrack_tcp_max_retrans = 3
net.ipv4.netfilter.ip_conntrack_tcp_be_liberal = 0
net.ipv4.netfilter.ip_conntrack_tcp_loose = 1
net.ipv4.netfilter.ip_conntrack_tcp_timeout_max_retrans = 300
net.ipv4.netfilter.ip_conntrack_log_invalid = 0
net.ipv4.netfilter.ip_conntrack_generic_timeout = 600
net.ipv4.netfilter.ip_conntrack_icmp_timeout = 30

net.ipv4.netfilter.ip_conntrack_udp_timeout_stream = 180
net.ipv4.netfilter.ip_conntrack_udp_timeout = 30
net.ipv4.netfilter.ip_conntrack_tcp_timeout_close = 10
net.ipv4.netfilter.ip_conntrack_tcp_timeout_time_wait = 120
net.ipv4.netfilter.ip_conntrack_tcp_timeout_last_ack = 30
net.ipv4.netfilter.ip_conntrack_tcp_timeout_close_wait = 60
net.ipv4.netfilter.ip_conntrack_tcp_timeout_fin_wait = 120
net.ipv4.netfilter.ip_conntrack_tcp_timeout_established = 432000
net.ipv4.netfilter.ip_conntrack_tcp_timeout_syn_recv = 60
net.ipv4.netfilter.ip_conntrack_tcp_timeout_syn_sent = 120
net.ipv4.netfilter.ip_conntrack_checksum = 1
net.ipv4.netfilter.ip_conntrack_buckets = 8192
net.ipv4.netfilter.ip_conntrack_count = 262
net.ipv4.netfilter.ip_conntrack_max = 65536
net.ipv4.conf.venet0.promote_secondaries = 0
net.ipv4.conf.venet0.force_igmp_version = 0
net.ipv4.conf.venet0.disable_policy = 0
net.ipv4.conf.venet0.disable_xfrm = 0
net.ipv4.conf.venet0.arp_accept = 0
net.ipv4.conf.venet0.arp_ignore = 0
net.ipv4.conf.venet0.arp_announce = 0
net.ipv4.conf.venet0.arp_filter = 0
net.ipv4.conf.venet0.tag = 0
net.ipv4.conf.venet0.log_martians = 0
net.ipv4.conf.venet0.bootp_relay = 0
net.ipv4.conf.venet0.medium_id = 0
net.ipv4.conf.venet0.proxy_arp = 0
net.ipv4.conf.venet0.accept_source_route = 0
net.ipv4.conf.venet0.send_redirects = 0
net.ipv4.conf.venet0.rp_filter = 1
net.ipv4.conf.venet0.shared_media = 1
net.ipv4.conf.venet0.secure_redirects = 1
net.ipv4.conf.venet0.accept_redirects = 1
net.ipv4.conf.venet0.mc_forwarding = 0
net.ipv4.conf.venet0.forwarding = 1
net.ipv4.conf.eth0.promote_secondaries = 0
net.ipv4.conf.eth0.force_igmp_version = 0
net.ipv4.conf.eth0.disable_policy = 0
net.ipv4.conf.eth0.disable_xfrm = 0
net.ipv4.conf.eth0.arp_accept = 0
net.ipv4.conf.eth0.arp_ignore = 0
net.ipv4.conf.eth0.arp_announce = 0
net.ipv4.conf.eth0.arp_filter = 0
net.ipv4.conf.eth0.tag = 0
net.ipv4.conf.eth0.log_martians = 0
net.ipv4.conf.eth0.bootp_relay = 0
net.ipv4.conf.eth0.medium_id = 0
net.ipv4.conf.eth0.proxy_arp = 0

net.ipv4.conf.eth0.accept_source_route = 0
net.ipv4.conf.eth0.send_redirects = 1
net.ipv4.conf.eth0.rp_filter = 1
net.ipv4.conf.eth0.shared_media = 1
net.ipv4.conf.eth0.secure_redirects = 1
net.ipv4.conf.eth0.accept_redirects = 1
net.ipv4.conf.eth0.mc_forwarding = 0
net.ipv4.conf.eth0.forwarding = 1
net.ipv4.conf.lo.promote_secondaries = 0
net.ipv4.conf.lo.force_igmp_version = 0
net.ipv4.conf.lo.disable_policy = 1
net.ipv4.conf.lo.disable_xfrm = 1
net.ipv4.conf.lo.arp_accept = 0
net.ipv4.conf.lo.arp_ignore = 0
net.ipv4.conf.lo.arp_announce = 0
net.ipv4.conf.lo.arp_filter = 0
net.ipv4.conf.lo.tag = 0
net.ipv4.conf.lo.log_martians = 0
net.ipv4.conf.lo.bootp_relay = 0
net.ipv4.conf.lo.medium_id = 0
net.ipv4.conf.lo.proxy_arp = 0
net.ipv4.conf.lo.accept_source_route = 1
net.ipv4.conf.lo.send_redirects = 1
net.ipv4.conf.lo.rp_filter = 0
net.ipv4.conf.lo.shared_media = 1
net.ipv4.conf.lo.secure_redirects = 1
net.ipv4.conf.lo.accept_redirects = 1
net.ipv4.conf.lo.mc_forwarding = 0
net.ipv4.conf.lo.forwarding = 1
net.ipv4.conf.default.promote_secondaries = 0
net.ipv4.conf.default.force_igmp_version = 0
net.ipv4.conf.default.disable_policy = 0
net.ipv4.conf.default.disable_xfrm = 0
net.ipv4.conf.default.arp_accept = 0
net.ipv4.conf.default.arp_ignore = 0
net.ipv4.conf.default.arp_announce = 0
net.ipv4.conf.default.arp_filter = 0
net.ipv4.conf.default.tag = 0
net.ipv4.conf.default.log_martians = 0
net.ipv4.conf.default.bootp_relay = 0
net.ipv4.conf.default.medium_id = 0
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.default.accept_source_route = 0
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.default.shared_media = 1
net.ipv4.conf.default.secure_redirects = 1
net.ipv4.conf.default.accept_redirects = 1

net.ipv4.conf.default.mc_forwarding = 0
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.all.promote_secondaries = 0
net.ipv4.conf.all.force_igmp_version = 0
net.ipv4.conf.all.disable_policy = 0
net.ipv4.conf.all.disable_xfrm = 0
net.ipv4.conf.all.arp_accept = 0
net.ipv4.conf.all.arp_ignore = 0
net.ipv4.conf.all.arp_announce = 0
net.ipv4.conf.all.arp_filter = 0
net.ipv4.conf.all.tag = 0
net.ipv4.conf.all.log_martians = 0
net.ipv4.conf.all.bootp_relay = 0
net.ipv4.conf.all.medium_id = 0
net.ipv4.conf.all.proxy_arp = 0
net.ipv4.conf.all.accept_source_route = 0
net.ipv4.conf.all.send_redirects = 0
net.ipv4.conf.all.rp_filter = 1
net.ipv4.conf.all.shared_media = 1
net.ipv4.conf.all.secure_redirects = 1
net.ipv4.conf.all.accept_redirects = 0
net.ipv4.conf.all.mc_forwarding = 0
net.ipv4.conf.all.forwarding = 1
net.ipv4.neigh.venet0.base_reachable_time_ms = 30000
net.ipv4.neigh.venet0.retrans_time_ms = 1000
net.ipv4.neigh.venet0.locktime = 99
net.ipv4.neigh.venet0.proxy_delay = 79
net.ipv4.neigh.venet0.anycast_delay = 99
net.ipv4.neigh.venet0.proxy_qlen = 64
net.ipv4.neigh.venet0.unres_qlen = 3
net.ipv4.neigh.venet0.gc_stale_time = 60
net.ipv4.neigh.venet0.delay_first_probe_time = 5
net.ipv4.neigh.venet0.base_reachable_time = 30
net.ipv4.neigh.venet0.retrans_time = 99
net.ipv4.neigh.venet0.app_solicit = 0
net.ipv4.neigh.venet0.ucast_solicit = 3
net.ipv4.neigh.venet0.mcast_solicit = 3
net.ipv4.neigh.eth0.base_reachable_time_ms = 30000
net.ipv4.neigh.eth0.retrans_time_ms = 1000
net.ipv4.neigh.eth0.locktime = 99
net.ipv4.neigh.eth0.proxy_delay = 79
net.ipv4.neigh.eth0.anycast_delay = 99
net.ipv4.neigh.eth0.proxy_qlen = 64
net.ipv4.neigh.eth0.unres_qlen = 3
net.ipv4.neigh.eth0.gc_stale_time = 60
net.ipv4.neigh.eth0.delay_first_probe_time = 5
net.ipv4.neigh.eth0.base_reachable_time = 30
net.ipv4.neigh.eth0.retrans_time = 99

net.ipv4.neigh.eth0.app_solicit = 0
net.ipv4.neigh.eth0.ucast_solicit = 3
net.ipv4.neigh.eth0.mcast_solicit = 3
net.ipv4.neigh.lo.base_reachable_time_ms = 30000
net.ipv4.neigh.lo.retrans_time_ms = 1000
net.ipv4.neigh.lo.locktime = 99
net.ipv4.neigh.lo.proxy_delay = 79
net.ipv4.neigh.lo.anycast_delay = 99
net.ipv4.neigh.lo.proxy_qlen = 64
net.ipv4.neigh.lo.unres_qlen = 3
net.ipv4.neigh.lo.gc_stale_time = 60
net.ipv4.neigh.lo.delay_first_probe_time = 5
net.ipv4.neigh.lo.base_reachable_time = 30
net.ipv4.neigh.lo.retrans_time = 99
net.ipv4.neigh.lo.app_solicit = 0
net.ipv4.neigh.lo.ucast_solicit = 3
net.ipv4.neigh.lo.mcast_solicit = 3
net.ipv4.neigh.default.base_reachable_time_ms = 30000
net.ipv4.neigh.default.retrans_time_ms = 1000
net.ipv4.neigh.default.gc_thresh3 = 1024
net.ipv4.neigh.default.gc_thresh2 = 512
net.ipv4.neigh.default.gc_thresh1 = 128
net.ipv4.neigh.default.gc_interval = 30
net.ipv4.neigh.default.locktime = 99
net.ipv4.neigh.default.proxy_delay = 79
net.ipv4.neigh.default.anycast_delay = 99
net.ipv4.neigh.default.proxy_qlen = 64
net.ipv4.neigh.default.unres_qlen = 3
net.ipv4.neigh.default.gc_stale_time = 60
net.ipv4.neigh.default.delay_first_probe_time = 5
net.ipv4.neigh.default.base_reachable_time = 30
net.ipv4.neigh.default.retrans_time = 99
net.ipv4.neigh.default.app_solicit = 0
net.ipv4.neigh.default.ucast_solicit = 3
net.ipv4.neigh.default.mcast_solicit = 3
net.ipv4.route.src_check = 0
net.ipv4.route.secret_interval = 600
net.ipv4.route.min_adv_mss = 256
net.ipv4.route.min_pmtu = 552
net.ipv4.route.mtu_expires = 600
net.ipv4.route.gc_elasticity = 8
net.ipv4.route.error_burst = 5000
net.ipv4.route.error_cost = 1000
net.ipv4.route.redirect_silence = 20480
net.ipv4.route.redirect_number = 9
net.ipv4.route.redirect_load = 20
net.ipv4.route.gc_interval = 60
net.ipv4.route.gc_timeout = 300

net.ipv4.route.gc_min_interval_ms = 500
net.ipv4.route.gc_min_interval = 0
net.ipv4.route.max_size = 8388608
net.ipv4.route.gc_thresh = 524288
net.ipv4.route.max_delay = 10
net.ipv4.route.min_delay = 2
net.ipv4.udp_wmem_min = 4096
net.ipv4.udp_rmem_min = 4096
net.ipv4.udp_mem = 6094176 8125568 12188352
net.ipv4.tcp_slow_start_after_idle = 1
net.ipv4.tcp_dma_copybreak = 4096
net.ipv4.tcp_workaround_signed_windows = 0
net.ipv4.tcp_base_mss = 512
net.ipv4.tcp_mtu_probing = 0
net.ipv4.tcp_abc = 0
net.ipv4.tcp_congestion_control = bic
net.ipv4.tcp_tso_win_divisor = 3
net.ipv4.tcp_moderate_rcvbuf = 1
net.ipv4.tcp_no_metrics_save = 0
net.ipv4.tcp_max_tw_buckets_ub = 16536
net.ipv4.tcp_max_tw_kmem_fraction = 384
net.ipv4.ipfrag_max_dist = 64
net.ipv4.ipfrag_secret_interval = 600
net.ipv4.tcp_low_latency = 0
net.ipv4.tcp_frto = 0
net.ipv4.tcp_tw_reuse = 0
net.ipv4.icmp_ratemask = 6168
net.ipv4.icmp_ratelimit = 1000
net.ipv4.tcp_adv_win_scale = 2
net.ipv4.tcp_app_win = 31
net.ipv4.tcp_rmem = 4096 87380 4194304
net.ipv4.tcp_wmem = 4096 16384 4194304
net.ipv4.tcp_mem = 385024 389120 393216
net.ipv4.tcp_dsack = 1
net.ipv4.tcp_ecn = 0
net.ipv4.tcp_reordering = 3
net.ipv4.tcp_fack = 1
net.ipv4.tcp_orphan_retries = 0
net.ipv4.inet_peer_gc_maxtime = 120
net.ipv4.inet_peer_gc_mintime = 10
net.ipv4.inet_peer_maxttl = 600
net.ipv4.inet_peer_minttl = 120
net.ipv4.inet_peer_threshold = 65664
net.ipv4.igmp_max_msf = 10
net.ipv4.tcp_use_sg = 1
net.ipv4.igmp_max_memberships = 20
net.ipv4.icmp_errors_use_inbound_ifaddr = 0
net.ipv4.icmp_ignore_bogus_error_responses = 1

net.ipv4.icmp_echo_ignore_broadcasts = 1
net.ipv4.icmp_echo_ignore_all = 0
net.ipv4.ip_local_port_range = 32768 61000
net.ipv4.tcp_max_syn_backlog = 1024
net.ipv4.tcp_rfc1337 = 0
net.ipv4.tcp_stdurg = 0
net.ipv4.tcp_abort_on_overflow = 0
net.ipv4.tcp_tw_recycle = 0
net.ipv4.tcp_syncookies = 1
net.ipv4.tcp_fin_timeout = 60
net.ipv4.tcp_retries2 = 15
net.ipv4.tcp_retries1 = 3
net.ipv4.tcp_keepalive_intvl = 75
net.ipv4.tcp_keepalive_probes = 9
net.ipv4.tcp_keepalive_time = 7200
net.ipv4.ipfrag_time = 30
net.ipv4.ip_dynaddr = 0
net.ipv4.ipfrag_low_thresh = 196608
net.ipv4.ipfrag_high_thresh = 262144
net.ipv4.tcp_max_tw_buckets = 180000
net.ipv4.tcp_max_orphans = 65536
net.ipv4.tcp_synack_retries = 5
net.ipv4.tcp_syn_retries = 5
net.ipv4.ip_nonlocal_bind = 0
net.ipv4.ip_no_pmtu_disc = 0
net.ipv4.ip_default_ttl = 64
net.ipv4.ip_forward = 1
net.ipv4.tcp_retrans_collapse = 1
net.ipv4.tcp_sack = 1
net.ipv4.tcp_window_scaling = 1
net.ipv4.tcp_timestamps = 1
net.token-ring.rif_timeout = 600000
net.core.netdev_budget = 300
net.core.somaxconn = 128
net.core.xfrm_larval_drop = 0
net.core.xfrm_acq_expires = 30
net.core.xfrm_aevent_rseqth = 2
net.core.xfrm_aevent_etime = 10
net.core.optmem_max = 20480
net.core.message_burst = 10
net.core.message_cost = 5
net.core.netdev_max_backlog = 1000
net.core.dev_weight = 64
net.core.rmem_default = 135168
net.core.wmem_default = 135168
net.core.rmem_max = 131071
net.core.wmem_max = 131071
debug.rst = 1

debug.cpt = 1
debug.exception-trace = 0
debug.ksoftirqd =
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
debug.decode_call_traces = 1
vm.flush_mmap_pages = 1
vm.pagecache = 100
vm.min_slab_ratio = 5
vm.min_unmapped_ratio = 1
vm.zone_reclaim_mode = 0
vm.swap_token_timeout = 300 0
vm.legacy_va_layout = 0
vm.vfs_cache_pressure = 100
vm.block_dump = 0
vm.laptop_mode = 0
vm.scale_vcpu_frequency = 1
vm.max_map_count = 65536
vm.percpu_pagelist_fraction = 0
vm.min_free_kbytes = 32250
vm.drop_caches = 0
vm.lowmem_reserve_ratio = 256 256 32
vm.hugetlb_shm_group = 0
vm.nr_hugepages = 0
vm.swappiness = 60
vm.nr_pdflush_threads = 2
vm.dirty_expire_centisecs = 2999
vm.dirty_writeback_centisecs = 499
vm.mmap_min_addr = 65536
vm.dirty_ratio = 40
vm.dirty_background_ratio = 10
vm.page-cluster = 3
vm.overcommit_ratio = 50
vm.panic_on_oom = 0
vm.overcommit_memory = 0

If you need any further information than please let me know.

Thanks,
Markus

Subject: Re: Maximum number of processes / threads of the OpenVZ HN?

Posted by markus on Tue, 10 Nov 2009 09:41:59 GMT
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Hi all,

So nobody has an idea why I can't have more than ~ 15,700 processes and threads as listed by the vzlist command on my machine:

```
[root@office-vm01]# vzlist
CTID      NPROC STATUS  IP_ADDR         HOSTNAME
4001       3100 running 192.168.3.230   vdev-app01
4002       3101 running 192.168.3.234   vdev-app02
4003       3105 running 192.168.3.238   vdev-app03
4004       3100 running 192.168.3.242   vdev-app04
4005       3096 running 192.168.3.246   vdev-app05
4006        212 running 192.168.3.210   vdev-app06
4007         15 running 192.168.3.214   vdev-app07
4008         15 running 192.168.3.218   vdev-app08
4009         15 running 192.168.3.222   vdev-app09
4010         15 running 192.168.3.226   vdev-app10
```

without running into errors on the VEs and the host like:

```
[root@vdev-app06 /]# cat /proc/user_beancounters
-bash: fork: Resource temporarily unavailable
```

Can someone confirm that running more than ~16,000 processes and threads on a OpenVZ Host should be possible? Do I need to tweak my kernel in a special way to get around that limit?

I really don't want to switch to another virtualization framework only because I'm unable to utilize the full resources of my machine..

Thanks,
Markus