

Xeon with 4GB of RAM running Squid

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-06/0054.html>

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To: freebsd-performance@freebsd.org
Date: Tue, 17 Jun 2003 09:45:55 +0800

Hi,

I have an Intel Xeon machine with 4GB of RAM on FreeBSD 4.7-RELEASE running Squid 2.5-STABLE2. Here's some of the parameters that I've tweaked:

/etc/sysctl.conf:

```
vm.v_free_min=131072
vm.v_free_target=262144
vm.f_free_reserved=32768
vm.v_free_severe=65536
kern.ps_showallprocs=0
vfs.vmiorenable=1
kern.ipc.maxsockbuf=2097152
kern.ipc.somaxconn=8192
kern.ipc.maxsockets=16424
net.inet.tcp.rfc1323=1
net.inet.tcp.delayed_ack=0
net.inet.tcp.sendspace=65535
net.inet.tcp.recvspace=65535
net.inet.udp.recvspace=65535
net.inet.udp.maxdgram=57344
net.local.stream.recvspace=65535
net.local.stream.sendspace=65535
```

/boot/loader.conf:

```
kern.ipc.maxsockets=32768
kern.ipc.nmbclusters=32768
kern.ipc.nmbufs=131072
kern.ipc.nsfbufs=6656
kern.ipc.shm_use_phys=1
kern.maxfiles=32768
kern.maxproc=8192
kern.maxswzone=33554432
kern.nbuf=16384
kern.ncallout=32768
```

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```
kern.vm.kmem.size=268435456
kern.vm.pmap.shpgperproc=2048
net.inet.tcp.tcbhashsize=16384
```

Kernel configuration:

```
machine i386
cpu I686_CPU
ident SQUID1
maxusers 128
```

```
options MSGMNB=16384
options MSGMNI=41
options MSGSEG=2049
options MSGSSZ=64
options MSGTQL=512
options SHMSEG=16
options SHMMNI=32
options SHMMAX=2097152
options SHMALL=4096
options MAXDSIZ=(2048*1024*1024)
options DFLDSIZ=(512*1024*1024)
options CPU_ENABLE_SSE
options UFS_DIRHASH
options KVA_PAGES=512
```

The cache directory is using software RAID-0 (3 x 40GB 7,200RPM UDMA-6) with softupdates enabled. Any other pointers to utilize this machine's full potential?

```
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streaming media + web hosting              | http://www.bitstop.ph
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```

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