

# FreeBSD data size tuning

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-11/0006.html>

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To: freebsd-performance@freebsd.org

Hello,

I have PIII 500 with 1GB of RAM on 4.9-RELEASE running Squid 2.5-STABLE4 and I got this error after a few hours of Squid running.

proxy (squid): xmalloc: Unable to allocate 65535 bytes!

According to Squid FAQ

8.7 xmalloc: Unable to allocate 4096 bytes!  
by Henrik Nordstrom

Messages like "FATAL: xmalloc: Unable to allocate 4096 blocks of 1 bytes!" appear when Squid can't allocate more memory, and on most operating systems (inclusive BSD) there are only two possible reasons:

1. The machine is out of swap
2. The process' maximum data segment size has been reached

I got 2500MB swap file and isnt used when i try to use the cmd top. How do i recompile a kernel with larger datasize settings?

here's the options that i added im my kernel

```
maxusers 128
options USER_LDT
options DUMMYNET
options IPFIREWALL
options IPFIREWALL_VERBOSE
options IPFIREWALL_VERBOSE_LIMIT=100
options IPFIREWALL_FORWARD
options IPFIREWALL_DEFAULT_TO_ACCEPT
```

## freebsd-performance: FreeBSD data size tuning

```
options IPDIVERT
options HZ=80
options NMBCLUSTERS=65536
```

sysctl.conf

```
vfs.vmiodirenable=1
kern.ipc.maxsockbuf=2097152
kern.ipc.somaxconn=8192
kern.ipc.maxsockets=16424
kern.maxfiles=65536
kern.maxfilesperproc=32768
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
```

loader.conf

```
userconfig_script_load="YES"
hw.ata.wc="1"
```

Squid Configuration

```
cache_mem 384
```

thanks very much ....

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```
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If you can't hear me, it's because i'm in parentheses.

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