

Re: sbwait state for loaded Apache server

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-07/0071.html>

From: Lamont Lucas (lamont_at_cluepon.com)

Date: 07/22/03

Date: Tue, 22 Jul 2003 11:46:07 -0700
To: Michael Conlen <meconlen@obfuscated.net>

On Tue, Jul 22, 2003 at 12:49:08PM -0400, Michael Conlen wrote:

> *I'm working with an Apache webserver running 1400 apache processes and
> the system pusing somewhere in the area of 50-60Mbit/sec sustained. The
> system seems to top out around 60Mbit/sec and I see some minor
> degradation of server response times.*

I did a lan only test of an apache install on a stock 4.8-stable box recently. With no extra tuning being done to the network stack or similar, I maxed out at about 60Mbit/sec originally, but after recompiling the kernel with:

```
options ACCEPT_FILTER_DATA
options ACCEPT_FILTER_HTTP
options NMBCLUSTERS=32768
```

and recompiling apache with `HARD_SERVER_LIMIT=2048`, `SO_ACCEPTFILTER` and `BUFFERED_LOGS`, I pushed that to 83Mbit/s and an average of 1310 requests per second (using our actual website data and replaying a day's worth of logs in fast forward) (oh, and apache 1.3.27)

The machine in question is a dual cpu 2.4ghz SuperMicro 6013P-8 with 2 gigs of ram. I turned hyperthreading off earlier but when I get around to doing real tuning in earnest I'll experiment with it off and on.

Oh, and when you make `/usr/ports/www/apache13`, set the env variable `WITH_APACHE_PERF_TUNING` and a higher hard server limit.

So my highly unscientific advice to you is to check out the `ACCEPT_FILTER` options and recompile apache to take advantage of them.

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- Lamont
"I am not an atomic playboy."

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