

Re: numbers don't lie ...

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2006-09/msg00175.html>

- *From:* Danny Braniss <danny@xxxxxxxxxxxxxx>
 - *Date:* Wed, 20 Sep 2006 18:04:31 +0300
-

--FCuugMFkC1bJL11L
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

On Tue, Sep 19, 2006 at 04:11:12PM +0400, Dmitry Morozovsky wrote:

On Thu, 14 Sep 2006, Oliver Fromme wrote:

=20

OF> Because buildworld is I/O-bound on systems with sufficiently
OF> fast processors.

OF>=20

OF> Try putting the contents of /usr/src into a RAM disk and
OF> repeat the benchmark. The numbers might look a little
OF> different then. Of course, you should have sufficient RAM
OF> in the machines -- If they're going to swap to the disks,
OF> your benchmark won't be happy.

OF>=20

OF> I think putting /usr/obj onto a RAM disk is not necessary
OF> because of soft-updates, so the processes shouldn't block
OF> on writes.

=20

My experiments show that if you have enough memory to host radmdrive
for=

=20

/usr/src you'd better leave it for caching – there were no statistically
meaningful performance difference, at least on machines with 1G+ RAM.

Really? My measurements show the opposite (on a system with 16GB of
RAM).

Kris

here are a bunch of new numbers:

Re: numbers don't lie ...

make: dell 2950
OS: FreeBSD 6.2-PRERELEASE
cpu: XEON 3.20GHz dualcore * 2
memory: 4GB

no swap configured/used.

make buildworld -j 8:

src & obj real user system hyper

Dell PERC 5/i RAID 0 24m17.73s 1h4m31.49s 15m47.44s no
Dell PERC 5/i RAID 0 22m3.39s 1h38m46.84s 28m54.18s yes
iSCSI/netapp 26m49.98s 1h4m26.77s 16m12.89s no

src obj

md Dell PERC 5/i 24m7.22s 1h4m44.94s 16m24.45 no

so, if numbers are to be believed:

- 1- hypert helps in the real time, but user and system are bigger.
allot of sweat for a very small gain.
- 2- src in memory made no change.
- 3- slow disc (iscsi) vs. very fast disk (PERC 5/i RAID 0) - about 1:3 speed,
produced
less than 10% gain in time.

danny

freebsd-hackers@xxxxxxxxxxx mailing list
<http://lists.freebsd.org/mailman/listinfo/freebsd-hackers>
To unsubscribe, send any mail to "freebsd-hackers-unsubscribe@xxxxxxxxxxx"