

Re: Tuning Postgresql on FreeBSD 5.1

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-08/0024.html>

From: Paul Pathiakis (paul_at_pathiakis.com)

Date: 08/26/03

To: "Marc G. Fournier" <scrappy@hub.org>

Date: Tue, 26 Aug 2003 15:33:22 -0400

Hi,

I'm running 5.1-RELEASE. No, I didn't enable it in my kernel config. Top shows only cpu 0 and cpu 2 running. However, as the machine boots it tells me that it enables cpu 1, 2, and 3. The only thing in my kernel that I enabled is SMP and APIC_IO.

Thanks!

P.

On Tuesday 26 August 2003 03:19 pm, Marc G. Fournier wrote:

> *You are running -STABLE? Did you enable HTT in your kernel config file?*

>

> *On Tue, 26 Aug 2003, Paul Pathiakis wrote:*

>> *Marc,*

>>

>> *I've tried disabling HTT in the BIOS (it's an Intel board). I've*

>> *disable HTT, saved the changes and the kernel is still seeing 4 CPUs when*

>> *it boots. Any ideas?*

>>

>> *Thanks,*

>>

>> *P.*

>>

>> *On Tuesday 26 August 2003 12:44 am, Marc G. Fournier wrote:*

>>>> *Again, the machine is a twin 2.8 Xeon HTT machine. HTT is turned*

>>>> *on and the machine sees 4 cpus.*

>>>>

>>>> *Have you played with toggling the sysctl machdep.cpu_idle_hlt?*

>>>>

>>> *In fact, disabled HTT altogether ... I have a machine with pretty much*

>>> *the same specs (2.4 vs 2.8 Xeon's) and I found performance noticeably*

>>> *improved with HTT disabled ... not just with processes, but with*

>>> *interactive sessions as well ...*

>>>

>>>> *From your postgresql.conf:*

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>>>>>
>>>>> *shared_buffers = 48000 # min max_connections*2 or 16, 8KB*
>>>>> *each*
>>>>>
>>>>> *WHOA! This is too high by a factor of about 10. You probably want a*
>>>>> *shared buffers set to 4096.*
>>>>>
>>>>> *Why? If you have the memory and all that ... All my production servers*
>>>>> *run:*
>>>>>
>>>>> */usr/local/bin/postmaster -B 40960 -N 512 -i -p 5432*
>>>>> *-D/usr/local/pgsql/5432 -S (postgres)*
>>>>>
>>>>>> *sort_mem = 32768 # min 64, size in KB*
>>>>>>
>>>>>> *This also seems high, divide by 8 and you're at a more reasonable*
>>>>>> *level.*
>>>>>>
>>>>>> *Again, depends on alot of things here ... if he only has the one*
>>>>>> *connection to the DB, allowing for 32M of RAM to be used for sorting*
>>>>>> *isn't a bad thing, since it keeps the sorts off of the hard drive ...*
>>>>>> *that is one stat that I wish we kept somehow ... "max sort size" ...*

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