

RE: Slow connection to Oracle 9i

Source: <http://coding.derkeiler.com/Archive/Perl/perl.dbi.users/2004-10/0219.html>

From: Lincoln A Baxter (lincoln.a.baxter_at_bankofamerica.com)

Date: 10/19/04

Date: Tue, 19 Oct 2004 10:51:56 -0400

To: "'Reidy, Ron'" <Ron.Reidy@arraybiopharma.com>, "BAXTER, LINCOLN A" <lincoln.a.baxter@bankofamerica.com>

THis assumes a insert heavy application. I would agree with this. When we LOAD data, we commit every 1000 or every 10000 rows. That is real different from a mostly read application with only occasional inserts and updates.

-----Original Message-----

From: Reidy, Ron [<mailto:Ron.Reidy@arraybiopharma.com>]

Sent: Tuesday, October 19, 2004 10:39 AM

To: BAXTER, LINCOLN A

Cc: dbi-users@perl.org

Subject: RE: Slow connection to Oracle 9i

Hmm...

I strongly disagree. To quote from Steve Adam's website (http://www.ixora.com.au/newsletter/2001_09.htm)...

Over committed

Many applications commit more frequently than necessary, and their performance suffers as a result. In isolation a commit is not a very expensive operation, but lots of unnecessary commits can nevertheless cause severe performance problems. While a few extra commits may not be noticed, the cumulative effect of thousands of extra commits is very noticeable. Try this test. Insert 1,000 rows into a test table -- first as a single transaction, and then committing after every row. Your mileage may vary, but these results on an otherwise idle system show a performance blowout of more than 100% when committing after every row.

Read it and test the results for yourself. Scale it to something that fits your application's profile. I have and my conclusions agree with Steve's findings (Oracle 8.1.7.4.0, 9.2.5.0 and 10.1 all using dictionary managed TBS on UFS disks).

Ron Reidy
Lead DBA

Array BioPharma, Inc.

-----Original Message-----

From: BAXTER, LINCOLN A [mailto:lincoln.a.baxter@bankofamerica.com]
Sent: Tuesday, October 19, 2004 8:27 AM
To: Reidy, Ron
Subject: RE: Slow connection to Oracle 9i

Actually it is CHEAP compared to a rollback, you have to reset your transaction state.

Commit is the cheapest thing you can do in Oracle.

The MOST expensive thing to do is Rollback. Believe me we know, from empirical experience.

The reason is that oracle ASSUMES the transaction is going to be committed, and stores rollback information which must be replayed, if you rollback.

-----Original Message-----

From: Reidy, Ron [mailto:Ron.Reidy@arraybiopharma.com]
Sent: Tuesday, October 19, 2004 10:24 AM
To: BAXTER, LINCOLN A; Paul Appleby
Cc: dbi-users@perl.org
Subject: RE: Slow connection to Oracle 9i

This is an ****extremely**** bad idea. A commit() should be issues only when necessary – the cost in the database of a commit is large and doing so in this random fashion is an invitation to other performance problems.

Ron Reidy
Lead DBA
Array BioPharma, Inc.

-----Original Message-----

From: BAXTER, LINCOLN A [mailto:lincoln.a.baxter@bankofamerica.com]
Sent: Monday, October 18, 2004 3:05 PM
To: 'Paul Appleby'
Cc: 'dbi-users@perl.org'
Subject: RE: Slow connection to Oracle 9i

Ok, then if you use Apache and mod_perl this should be easy... just open connection if you don't have it (or you get and error on it), and keep it around.

Call commit (even if you have done only selects), at the end of each "event" instead of close. The commit is the most efficient way to ensure that you do not get a transaction too long error (can't remember exactly what its called... yes I do: "Snapshot too old"). Commit resets the transaction state -- for transaction consistency -- the C of ACID (Read about how oracle implements ACID) -- no it's not a recreational drug.

Lincoln

RE: Slow connection to Oracle 9i

-----Original Message-----

From: Paul Appleby [mailto:007@pathcom.com]
Sent: Monday, October 18, 2004 4:54 PM
To: BAXTER, LINCOLN A
Cc: dbi-users@perl.org
Subject: RE: Slow connection to Oracle 9i

No. Each user will be using the same application that logs in to the same schema. But the users are all anonymous visitors to a web site.

Paul

>Are you logging in each user to a unique oracle schemna?
>If so, no hope... (other than oracle tuning per Tim's message --
>pre-spawned listeners on the database can make a BIG difference ... talk to
>your dba's)

>
>Lincoln

>
>
>

>-----Original Message-----

>From: Paul Appleby [mailto:007@pathcom.com]
>Sent: Monday, October 18, 2004 4:39 PM
>To: BAXTER, LINCOLN A
>Cc: dbi-users@perl.org
>Subject: RE: Slow connection to Oracle 9i

>
>

>My CGI application will be called by different users at different
>times. Are you saying the first user's connection can be left open
>for all the other users? How?

>
>Paul

>

>>Most people with experience with Oracle know that opening oracle
>>connections
>>is SLOW!

>>

>>Oracle does not appear to consider that a problem, just like they do not
>>consider slow performance for doing DDL a problem

>>

>>Applications that require near real time (OLTP) response times open
>>connections once, and hold open oracle connections across transactions.
>>This is true regardless of the language on the client side. That is why,
>>for instance, Websphere caches pooled connections in the java world.

>>

>>Lincoln

>>
>>

>>-----Original Message-----

perl.dbi.users: RE: Slow connection to Oracle 9i

>>From: Tim Bunce [mailto:Tim.Bunce@pobox.com]
>>Sent: Monday, October 18, 2004 12:06 PM
>>To: Paul Appleby
>>Cc: dbi-users@perl.org
>>Subject: Re: Slow connection to Oracle 9i
>>
>>
>>On Mon, Oct 18, 2004 at 10:38:23AM -0400, Paul Appleby wrote:
>>>
>>>>DBD::Oracle::dr::load_dbnames is only called by data_sources()
>>>>so don't call data_sources() unless you really need to.
>>>>
>>>>I really do need to call data_sources() but the time it takes to
>>>>retrieve data, as shown above, using "Time::HiRes" is only
>>>>0.0100140571594238 seconds. So that's not the issue.
>>>>
>>>>dprofpp showed it to take approx the same time as login:
>>>>
>>>>%Time ExclSec CumulS #Calls sec/call Csec/c Name
>>>>21.6 0.090 0.090 1 0.0900 0.0900 DBD::Oracle::db::_login
>>>>21.6 0.090 0.159 1 0.0899 0.1592
>>>>DBD::Oracle::dr::load_dbnames
>>>>21.6 0.090 0.159 6 0.0149 0.0265 main::BEGIN
>>>>
>>>>Anyway, I think there's little you can do from DBI to make Oracle
>>>>connections faster than you already have. Look to changes on the
>>>>Oracle side - for which other mailing lists (such as oracle-l) are
>>>>more suitable.
>>>>
>>>>Tim.
>>>>
>>>>
>>>>--
>>>>Sincerely,
>>>>
>>>>Paul Appleby

--
Sincerely,
Paul Appleby
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contains
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