

Re: AS2005 ... what is wrong with it?

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.olap/2006-08/msg00656.html>

- *From:* "Radu Colceriu" <radu_colceriu@xxxxxxxxxxxxx>
 - *Date:* Thu, 24 Aug 2006 10:26:50 +0200
-

Hi,

The version map (master.mvp) file has 1.3M.

after formatting the xml file (open a copy in management studio -> auto format) the file has 40600 lines.

Unfortunately I can't use dynamic roles because the roles are quite irregular in definition and I cannot influence too much the MDX generated by the presentation layer (arcplan's dynasight).

I can install/use multiple instances at least to try to isolate the problematic databases. Good idea!

Greetings,
Radu

"Akshai Mirchandani [MS]" <akshaim@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:%233xEMbvXGHA.4232@xxxxxxxxxxxxxxxxxxxxxxxx

P.S. our dev. server is a single xeon 3.8 4G ram (win x64 , sql x86) and the prod. server is dual dualcore-xeon 2.8 G 8G Ram (win x64, sql x64). What I have seen is that the dev server is **faster** than the prod server even if I am the only user on both!.

And does your dev server also have all 6 databases with all these roles?

Also, as I mentioned earlier, I have some suspicions that the x64 MSXML is a contributor to the performance issue but so far it is just a theory... This may explain the difference in behavior.

Multi-CPU isn't the issue -- the commit operation is single-threaded anyway. Similarly, the volume of data isn't likely to be an issue -- commit isn't going to be affected about the amount of data.

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In fact, most of your description below makes me feel more confident that it is the size of the version map file which is causing such a huge slowdown.

Are you free to use multiple instances? If you are, then you could split up the 6 databases onto different instances on the production machine.

Other options:

- If the roles between databases are similar, consider merging databases (this would reduce the total number of roles and metadata objects)
- I would normally not recommend this, but perhaps dynamic security is another solution which might be a reasonable option for you (once again, to reduce the total number of roles)

Alternatively, you could contact customer support and open a case for this issue...

Thanks,
Akshai

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<http://forums.microsoft.com/MSDN/ShowForum.aspx?ForumID=83&SiteID=1>

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"Radu Colceriu" <radu_colceriu@xxxxxxxxxxxx> wrote in message
<news:%23ivluioxGHA.3844@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hello Akshai,

I've tested with your suggestions: renamed that data dir, started the as service and then restored the databases. I've got an improvement of about 3 sec in role creation (from 1:48)

Anyway using your suggestion I've discovered something very interesting. I have 6 OLAP databases on the server. One of them is called "MIS" and the other "PROV". When I delete this 2 databases I got a role creation time of approx 5 sec which is more than ok .

When I restore the "PROV" i got approx 20 sec.

When I restore the MIS i got 1:43 :(.

The role creation thake place on another database (not MIS and not PROV)

The MIS db is approx 1.8G, has around 10 cubes, and 16 dims and around 250 roles. The odd thing is that a lot of the dimensions are parent-child (AS 2000 db maanually ported to AS2005).

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The PROV db has 3 cubes and 5 dimensions and is around 800M with around 150 roles. The dimensions are not parent-child.

We are in the process of completely rebuilding the MIS db but not the PROV.

Any suggestions/ideas?

Thanks,

Radu

P.S. our dev. server is a single xeon 3.8 4G ram (win x64 , sql x86) and the prod. server is dual dualcore-xeon 2.8 G 8G Ram (win x64, sql x64). What I have seen is that the dev server is *faster* than the prod server even if I am the only user on both!.

so GHz > MultiCPU?

"Akshai Mirchandani [MS]" <akshaim@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

news:OXCcYGVxGHA.5044@xxxxxxxxxxxxxxxxxxxxxxxx

@Akshai :
on the 32
bit the mvp
is 1M and
on 64 bit is
2.5M. On
both
servers I'm
the only one
accessing it.
(not live
yet).

I think you should try this (but be very careful because this is not

really a recommended action):

- Stop the Analysis Server
- Rename the data folder you have: <installpath>\data to <installpath>\data_backup
- Restart the server
- A new data folder should have been created at <installpath>\data
- Restore the backup of the database
- Try the operation again

Re: AS2005 ... what is wrong with it?

I believe that what has happened is that your master version map has somehow gotten filled with lots of object versions. AS uses the DOM in MSXML to access this file and I believe the size of this file could be contributing to the poor performance of the commit operation.

Starting from an empty data folder should show if this theory is true for you. I also have some suspicions that the x64 DOM is for some reason slower than the x86 DOM but I haven't seen any real evidence of this yet...

What is strange is that on the 64bit in the Data directory I have a lot of .tmp file like ({uid}).tmp and {uid}.sbmp.tmp) and I cannot delete them even with the AS service stopped.

It should be possible to delete these files once the server is stopped — I would check to see which process is holding handles to them (you can download a tool from sysinternals called Handle which lets you determine this):
<http://www.sysinternals.com/Utilities/Handle.html>

It may turn out that you have another process like an anti-virus or something like that causing interference on the data folder — and

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perhaps causing Commit to also slow down...

Thanks,
Akshai

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"Radu Colceriu" <radu_colceriu@xxxxxxxxxxxx> wrote in
message

<news:OWA3QbSxGHA.4416@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hi Jeje,

I've tried what you have suggested and there
is no difference:

I saved the create role XMLA on both
servers then I restarted the AS
services (actually restarted the srv) ,
connected (taked +2-3sec) with
management studio and then executed the
scripts.

the 32 bit: 4 sec

the 64 bit 1:49

the OLAP databses were restored from the
same backup file

the OLAP databases access the same
SQL2005

both servers are on the same array with
diffrent LUNs

i am the only user in the system

I'm really confused an I presume there is
some screwed up installation
or the AS have some issues with dual
dual-core xeon x64.

I appreciate your involvement,
Thanks,

Re: AS2005 ... what is wrong with it?

Radu

"Jéjé" <willgart_A_@xxxxxxxxxxxxxxxx>
wrote in message
news:%234Xj74RxGHA.2120@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

the question is not cold
cache and warm cache
during query time.
the question is:
when you apply your
security does the cache is
warm or cold?

do this:
save the script which apply
the security into an XMLA
script
stop both servers 32bits and
64bits
start both servers
run your XMLA script on
both server
how many time the XMLA
command takes on both
servers?

"Radu Colceriu"
<radu_colceriu@xxxxxxxxxxxx>
wrote in message
news:uO0CXLpxGHA.4192@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hi,

@Jeje: no
it's not a
cold cache
thing.... the
query times
are ok.
Only the
management
is slow. It is
looking like
a looking or
something.

@Akshai :

Re: AS2005 ... what is wrong with it?

on the 32
bit the mvp
is 1M and
on 64 bit is
2.5M. On
both
servers I'm
the only one
accessing it.
(not live
yet).

What is
strange is
that on the
64bit in the
Data
directory I
have o
lot of .tmp
file like
({uid}.tmp
and
{uid}.sbmp.tmp)
and I cannot
delete them
even with
the AS
service
stopped.

Any ideas?
Thanks,
Radu

P.S. I will
try in the
next days to
reinstall the
AS ... hope
I get
no problems
with the
uninstall
'cause
SQL2005 is
working
wonderful.

Re: AS2005 ... what is wrong with it?

"Akshai
Mirchandani
[MS]"
<akshaim@xxxxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:uYdiXjwwGHA.4220@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Can
you
check
on
both
32-bit
and
64-bit,
what
is
the
size
of
the
file
master.vmp
in
the
data
folder?

I've
seen
one
or
two
situations
where
this
file
becomes
very
large
and
causes
an
unexpected
slowdown
during
Commit

Re: AS2005 ... what is wrong with it?

perhaps
on
x64
something
worsens
the
problem...

Thanks,
Akshai

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Re: AS2005 ... what is wrong with it?

"Jéjé"

<willgart_A_@xxxxxxxxxxxxxxxx>

wrote

in

message

news:%23%23QvFWuwGHA.1224@xxxxxxxxxxxxxxxx

does

the

system

takes

the

same

time

if

the

2

servers

have

a

cold

cache?

have

you

somebody

connected

or

active

sessions

on

the

server?

to

test,

stop

the

service,

start

it,

apply

your

new

security

and

verify

the

time

taken.

(stopping

Re: AS2005 ... what is wrong with it?

the
service
will
insure
you
that
nobody
and
nothing
is
in
the
cache)

"Radu
Colceriu"
<radu_colceriu@xxxxxxxxxxxx>
wrote
in
message
[news:%23pHG\\$TqwGHA.5044@xxxxxxxxxxxxxxxx](mailto:news:%23pHG$TqwGHA.5044@xxxxxxxxxxxxxxxx)

I've
installed
AS2005
32
bit
version
on
a
3.8G
xeon
4G
RAM
and
restored
the
OLAP
database.

There
changing/saving
a
role
takes
3sec!!!!
On
the
64

Re: AS2005 ... what is wrong with it?

bit
maschine
2
mins!!!

What
can
it
be
?

Thanks,
Radu

"Radu
Colceriu"
<radu_colceriu@xxxxxxxxxxxx>
wrote
in
message
news:uUjiLPewGHA.4688@xxxxxxxxxxxx

My
setup:
dual
xeon
dualcore
2.8
x64
8G
RAM,
SAN,
Win
2003
Standard
x64
,
SQL2005
EE
x64
+
AS
2005
x64,
SP
1
+
post
SP1

Re: AS2005 ... what is wrong with it?

hotfix.

I
have
some
OLAP
databases
(5)
installed
on
the
AS
server
which
are
working
good.
The
problem
is
that
when
I
change
something
in
one
database
(role||deploy)
the
whole
AS2005
is
somehow
locked!!!
The
save
process
for
a
role
can
take
up
to
2-10
mins
in
one
database

Re: AS2005 ... what is wrong with it?

and
in
the
mentime
all
other
databases
are
locked!
no
query
is
working,
no
connection
with
the
manangement
studio
from
other
users
to
AS
is
working.
The
processor
is
12.5%
(1
exec
unit:
100%,
7exec
units:
1%)

I
understand
that
the
database
on
wich
I
save
the
changes
can
get

Re: AS2005 ... what is wrong with it?

locked
during
the
process
but,
why
the
others
databases
get
locked
also???!.

The
settings
of
the
server
(AS)
are
the
default
one.

This
is
a
productive
system
and
when
I
change
a
role
the
whole
system
freeze
until
the
saving
is
finished,
even
if
the
role
is
made
in

Re: AS2005 ... what is wrong with it?

a
TestOLAPDB
where
I
have
the
only
access.

Does
anyone
have
such
problems?
Do
you
have
AS2005
databases
with
more
than
150
roles
on
prod.
system?

Does
anyone
have
any
idea?

Thanks,
Radu

Re: AS2005 ... what is wrong with it?