

Re: Very bad response time from stored procedure call via ADO

Source: <http://www.tech-archive.net/Archive/Data/microsoft.public.data.ado/2006-08/msg00186.html>

- *From:* "Bob Barrows [MVP]" <reb01501@xxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 10 Aug 2006 07:16:40 -0400
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Craig wrote:

Hi,
We have a stored procedure that returns some statistical information to a VB6 application for display via ADO. SQL Server is version 2000 SP4 and is clustered (2 nodes)

The stored procedure structure is as follows:

```
Create procedure upLstXYZ
( @Parm varchar(5)
)
as
begin
set nocount on

select 'Result col 1' as Heading, dbo.fn1(@Parm) as Value
union all
select 'Result col 2', dbo.fn2(@Parm)
union all
select 'Result col 3', dbo.fn3(@Parm)
union all
select 'Result col 4', dbo.fn4(@Parm)

end
```

In total there are 14 rows returned (14 function calls).

When run in SQL Query Analyser the typical duration is 400ms.

When run from the VB6 application via ADO the duration increases to over 60000ms!

I've captured a profiler trace when the stored procedure is run via ADO. The extra time is occurring in some of the function calls. The duration is increased in the order of between 150 and 400 times!

In our development environment, which is not clustered, there is

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negligible difference in response time between running the stored procedure in SQL Query Analyser and the via ADO in the VB application.

What would you suggest I do to resolve this?

The usual culprit when there is a difference in performance between testing a procedure in QA and using the procedure in production is a behavior called "parameter sniffing". See:

<http://tinyurl.com/h7aa>

and

<http://www.microsoft.com/technet/prodtechnol/sql/2005/recomp.msp#EEAA>

If this does not turn out to be the problem, then I suggest you post a repro to m.p.sqlserver.programming. In the repro, include the DDL and sample data required to allow someone to install the tables, prcs and functions on his own server and test them (www.aspfaq.com/5006)

Bob Barrows

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Please reply to the newsgroup. This email account is my spam trap so I don't check it very often. If you must reply off-line, then remove the "NO SPAM"

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