

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

Source:

<http://www.tech-archive.net/Archive/SOL-Server/microsoft.public.sqlserver.jdbcdriver/2008-03/msg00015.html>

- *From:* Bob Heingartner <BobHeingartner@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 24 Mar 2008 05:51:02 -0700
-

1) If I manage to reproduce this same problem with a table from one of the sample databases, would this still require a support incident?

2) If the support incident ends up verifying a slowdown in the new driver, will that be considered a "no charge" support incident, because it found a "bug", or will there still be a charge for the incident?

"Evan T. Basalik (MSFT)" wrote:

Bob,

Hmm – that is a relatively complex table and the more I think about this, the more I think this issue would be better suited for the context of a support incident. Given the nature of the positions of the Microsoft folks who monitor this newsgroup, we are not going to be able to give this issue the appropriate attention if it stays just a newsgroup issue.

If you are interested in pursuing this issue, please contact our Technical Routers. Please ask them to direct the case to me and I will be happy to work with you on this performance issue.

Evan

Thread-Topic: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definition
thread-index: AciIlog5lzS88EQsSqOz8qbnSi6uEg==
X-WBNR-Posting-Host: 63.69.129.2
From: =?Utf-8?B?Qm9iIEhlaW5nYXJ0bmVy?=<BobHeingartner@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
References:
<D64A11AB-06AA-4210-AA6C-0B2686ED5E08@xxxxxxxxxxxxxxxxx>
<PtEO905hIHA.4672@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
Subject: RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definition
Date: Mon, 17 Mar 2008 05:58:01 -0700

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

Lines: 236

Message-ID:

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microsoft.public.sqlserver.jdbcdriver:466

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I do think this would happen in general, not just for my database; however, I do not have time right now to reproduce against a generic database. Both queries are against a single table (the person table)
Here is the definition of this table:

```
USE [ccc_glasgow_spey]
```

```
GO
```

```
/****** Object: Table [dbo].[Person] Script Date: 03/17/2008 08:51:21
```

```
*****/
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[Person](  
[HomeServerCID] [int] NULL,  
[PersonEUID] [nvarchar](40) COLLATE SQL_Latin1_General_CP1_CI_AS  
NULL,  
[PersonGID] [decimal](19, 0) NOT NULL CONSTRAINT  
[DF_Person_PersonGID]  
DEFAULT ((0)),  
[FirstName] [nvarchar](63) COLLATE SQL_Latin1_General_CP1_CI_AS  
NOT NULL  
CONSTRAINT [DF_Person_FirstName] DEFAULT ("),  
[MiddleName] [nvarchar](60) COLLATE  
SQL_Latin1_General_CP1_CI_AS NOT NULL  
CONSTRAINT [DF_Person_MiddleName] DEFAULT ("),  
[LastName] [nvarchar](63) COLLATE SQL_Latin1_General_CP1_CI_AS  
NOT NULL  
CONSTRAINT [DF_Person_LastName] DEFAULT ("),  
[PersonType] [int] NOT NULL CONSTRAINT [DF_Person_PersonType]  
DEFAULT ((0)),  
[PIN] [int] NOT NULL CONSTRAINT [DF_Person_PIN] DEFAULT ((0)),
```

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

```
[BadgeLayoutID] [int] NOT NULL CONSTRAINT
[DF_Person_BadgeLayoutID]
DEFAULT ((0)),
[FacilityCode] [int] NOT NULL CONSTRAINT [DF_Person_FacilityCode]
DEFAULT
((0)),
[Inactive] [bit] NOT NULL CONSTRAINT [DF_Person_Inactive]
DEFAULT ((0)),
[Disabled] [bit] NOT NULL CONSTRAINT [DF_Person_Disabled]
DEFAULT ((0)),
[ADA] [bit] NOT NULL CONSTRAINT [DF_Person_ADA] DEFAULT
((0)),
[Deleted] [bit] NOT NULL CONSTRAINT [DF_Person_Deleted]
DEFAULT ((0)),
[Noticed] [bit] NOT NULL CONSTRAINT [DF_Person_Noticed]
DEFAULT ((0)),
[LastModDT] [int] NULL CONSTRAINT [DF_Person_LastModDT]
DEFAULT ((0)),
[GlobalLastModDT] [int] NULL CONSTRAINT
[DF_Person_GlobalLastModDT]
DEFAULT ((0)),
[LastModPersonEUID] [nvarchar](40) COLLATE
SQL_Latin1_General_CP1_CI_AS NULL,
[LastModPersonGID] [decimal](19, 0) NULL CONSTRAINT
[DF_Person_LastModPersonGID] DEFAULT ((0)),
[Text1] [nvarchar](255) COLLATE SQL_Latin1_General_CP1_CI_AS
NULL
CONSTRAINT [DF_Person_Text1] DEFAULT ("),
[Text2] [nvarchar](255) COLLATE SQL_Latin1_General_CP1_CI_AS
NULL
CONSTRAINT [DF_Person_Text2] DEFAULT ("),
[Text3] [nvarchar](255) COLLATE SQL_Latin1_General_CP1_CI_AS
NULL
CONSTRAINT [DF_Person_Text3] DEFAULT ("),
[Text4] [nvarchar](255) COLLATE SQL_Latin1_General_CP1_CI_AS
NULL
CONSTRAINT [DF_Person_Text4] DEFAULT ("),
[Text5] [nvarchar](255) COLLATE SQL_Latin1_General_CP1_CI_AS
NULL
CONSTRAINT [DF_Person_Text5] DEFAULT ("),
[Int1] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int1] DEFAULT
((0)),
[Int2] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int2] DEFAULT
((0)),
[Int3] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int3] DEFAULT
((0)),
[Int4] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int4] DEFAULT
((0)),
[Int5] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int5] DEFAULT
((0)),
[Logical1] [bit] NOT NULL CONSTRAINT [DF_Person_Logical1]
```

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

```
DEFAULT ((0)),
[Logical2] [bit] NOT NULL CONSTRAINT [DF_Person_Logical2]
DEFAULT ((0)),
[Date1] [datetime] NULL,
[Date2] [datetime] NULL,
[ActivateAPEvent] [bit] NOT NULL CONSTRAINT
[DF_Person_ActivateAPEvent]
DEFAULT ((0)),
[AssetAdministrator] [bit] NOT NULL CONSTRAINT
[DF_Person_AssetAdministrator] DEFAULT ((0)),
[ImageCaptureDT] [int] NULL CONSTRAINT
[DF_Person_ImageCaptureDT] DEFAULT
((0)),
[BadgePrintDT] [int] NULL CONSTRAINT [DF_Person_BadgePrintDT]
DEFAULT ((0)),
[SignatureCaptureDT] [int] NULL CONSTRAINT
[DF_Person_SignatureCaptureDT]
DEFAULT ((0)),
[TransactionNum] [int] NOT NULL CONSTRAINT
[DF_Person_TransactionNum]
DEFAULT ((0)),
[IsCcmUser] [bit] NOT NULL CONSTRAINT [DF_Person_IsCcmUser]
DEFAULT ((0)),
[HasBeenCcmUser] [bit] NOT NULL CONSTRAINT
[DF_Person_HasBeenCcmUser]
DEFAULT ((0)),
[ImageReplicationCategory] [int] NOT NULL CONSTRAINT
[DF_Person_ImageReplicationCategory] DEFAULT ((2)),
[ImageLastModDT] [int] NULL CONSTRAINT
[DF_Person_ImageLastModDT] DEFAULT
((0)),
[Temp] [bit] NOT NULL CONSTRAINT [DF_Person_Temp] DEFAULT
((0)),
[CardLastModDT] [int] NULL CONSTRAINT
[DF_Person_CardLastModDT] DEFAULT
((0)),
[PersonIdentifier] [decimal](20, 0) NOT NULL CONSTRAINT
[DF_Person_PersonIdentifier] DEFAULT ((0)),
[OrganizationalCategory] [decimal](20, 0) NOT NULL CONSTRAINT
[DF_Person_OrganizationalCategory] DEFAULT ((0)),
[OrganizationalIdentifier] [decimal](20, 0) NOT NULL CONSTRAINT
[DF_Person_OrganizationalIdentifier] DEFAULT ((0)),
[POAssociatCategory] [decimal](20, 0) NOT NULL CONSTRAINT
[DF_Person_POAssociatCategory] DEFAULT ((0)),
[Int6] [decimal](28, 0) NULL,
[Int7] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int7] DEFAULT
((0)),
[Int8] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int8] DEFAULT
((0)),
[Int9] [decimal](28, 0) NULL CONSTRAINT [DF_Person_Int9] DEFAULT
((0)),
```

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

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```
[Logical3] [bit] NOT NULL CONSTRAINT [DF_Person_Logical3]
DEFAULT ((0)),
[Logical4] [bit] NOT NULL CONSTRAINT [DF_Person_Logical4]
DEFAULT ((0)),
[Date3] [datetime] NULL,
[Date4] [datetime] NULL,
[Text6] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL,
[Text7] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL,
[Text8] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text8] DEFAULT ("),
[Text9] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text9] DEFAULT ("),
[Text10] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text10] DEFAULT ("),
[Text11] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text11] DEFAULT ("),
[Text12] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text12] DEFAULT ("),
[Text13] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text13] DEFAULT ("),
[Text14] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text14] DEFAULT ("),
[Text15] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text15] DEFAULT ("),
[Text16] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text16] DEFAULT ("),
[Text17] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text17] DEFAULT ("),
[Text18] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text18] DEFAULT ("),
[Text19] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text19] DEFAULT ("),
[Text20] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text20] DEFAULT ("),
[Text21] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text21] DEFAULT ("),
[Text22] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
```

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

```
CONSTRAINT
[DF_Person_Text22] DEFAULT ("),
[Text23] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text23] DEFAULT ("),
[Text24] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text24] DEFAULT ("),
[Text25] [nvarchar](129) COLLATE Latin1_General_CI_AI NULL
CONSTRAINT
[DF_Person_Text25] DEFAULT ("),
CONSTRAINT [PK_Person] PRIMARY KEY CLUSTERED
(
[PersonGID] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]

GO

/** Many fields have indexes, they are all like this */
USE [ccc_glasgow_spey]
GO
/***** Object: Index [FirstName] Script Date: 03/17/2008 08:54:43
*****/
CREATE NONCLUSTERED INDEX [FirstName] ON [dbo].[Person]
(
[FirstName] ASC
)WITH (PAD_INDEX = OFF, SORT_IN_TEMPDB = OFF,
DROP_EXISTING = OFF,
IGNORE_DUP_KEY = OFF, ONLINE = OFF) ON [PRIMARY]

/* Full list of fields with indexes, defined as above:
FirstName
FullName
GlobalLastModDT
Int1
Int2
Int6
Int7
LastModDT
PersonEUID
Text1
Text2
Text6
Text7
Text8
Text9
Text10
```

"Evan T. Basalik (MSFT)" wrote:

Bob,

While we did not specifically target performance with the v1.2 driver beyond the Adaptive Buffering changes, I am surprised that you are seeing slower performance with the v1.2 driver. Do you only see the problem with your custom database? Do you think the problem would reproduce against a

generic

database?

Also, it looks like both your SELECT and UPDATE statement are restricted to a single table. If that is the case, then can you provide the definition for

your

table and your Java code? I should be able to use those to generate some sample data pretty easily so I can do a similar test in my environment.

Evan

Thread-Topic: New JDBC 1.2 driver runs slower than JDBC 1.1 driver-- expected??

thread-index:

Ach+02cBj6yAlt+wSw2Q7Yv4oIbaxA==

X-WBNR-Posting-Host: 63.69.129.2

From:

=?Utf-8?B?Qm9iIEhlaW5nYXJ0bmVy?=
<BobHeingartner@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

<BobHeingartner@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Subject: New JDBC 1.2 driver runs slower than JDBC 1.1 driver-- expected??

Date: Wed, 5 Mar 2008 07:13:01 -0800

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Message-ID:

<D64A11AB-06AA-4210-AA6C-0B2686ED5E08@xxxxxxxxxxxxxxxx>

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X-Newsreader: Microsoft CDO for

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

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microsoft.public.sqlserver.jdbcdriver
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Xref: TK2MSFTNGHUB02.phx.gbl
microsoft.public.sqlserver.jdbcdriver:453
NNTP-Posting-Host:
tk2msftibfm01.phx.gbl 10.40.244.149
X-Tomcat-NG:
microsoft.public.sqlserver.jdbcdriver

I have some test programs I run which do repeated simple SQL Select and SQL update statements. These test programs consistently take 5 to 10% longer to run with the new JDBC 1.2 driver than they do with the JDBC 1.1 driver. Is this expected? I thought the new driver was supposed to be higher performance, not lower performance. Here is the select statement I am doing:

```
SELECT HomeServerCID, FirstName,
MiddleName, LastName, PersonType, Pin,
FacilityCode, Inactive, Disabled, ADA,
Deleted, Noticed, LastModDT, Text1,
Text2, Text3, Text4, Text5, text6, text7,
text8, text9, Int1, Int2, Int3,
Int4, Int5, Logical1, Logical2, Logical3,
Logical4, Date1, Date2,
ActivateAPEvent, AssetAdministrator,
ImageCaptureDT, SignatureCaptureDT,
PersonGID, LastModPersonGID,
IsCCmUSer, HasBeenCCMUser FROM
person WHERE
PersonGID = xxxx
```

Here is the update statement:
UPDATE person SET HomeServerCID =
HomeServerCID WHERE PersonGID =
xxxx

(In both cases, xxxx varies in a loop so different records are selected.)

RE: New JDBC 1.2 driver runs slower than JDBC 1.1; my db definitio

I can provide the complete java source code
if needed, but you will also
need a database backup to run them.

Evan T. Basalik

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and confers no rights.

Evan T. Basalik

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