

Tricky: java.lang.StackOverflowError due to recursive call in warning messages construction

Source:

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Greetings to readers,

I got this problem with both SP2 and SP3 of the JDBC driver for SQL Server 2000:

The recursive call made in method "com.microsoft.jdbc.base.BaseWarnings.createSQLWarning()" causes a java.lang.StackOverflowError when number of warning messages (or PRINT sql statements is too important).

To reproduce this problem, create a sql script which contains approximately 5 megabytes of PRINT statements within one unique transaction, e.g:

```
-----  
SET NOCOUNT ON  
PRINT 'Begin'  
BEGIN TRANSACTION  
PRINT 'Hello !' -- repeat this statement the required number times to  
reach a file size of 5mb  
COMMIT TRANSACTION  
-----
```

As PRINT statements are returned as warning messages, this will have the same consequence as producing real warnings.

Run that script on your database using classic Java code, eg:

```
statement.execute(loadedSqlScriptContent); // Send content of the sql  
script to the server  
resultSet = statement.getResultSet(); // This will get a null object as  
you update nothing  
SQLWarning warning = statement.getWarnings(); // Get print/warning  
messages
```

The third line should cause a java.lang.StackOverflowError as the number of

warning messages to construct is huge.

So I would have 2 questions:

– does anyone has any idea of how to solve this issue without simply increasing the JVM stack size ? (you can keep suggestions like "don't retrieve the warnings", etc. :).

– does anyone who I should contact to have this issue possibly fixed into next JDBC driver's release ?

Any answer to any of these 2 questions would be just great.

Thanks a lot by advance.

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