

Mulgara - Bug #133

Sporadic concurrent access in StringPoolSession

07/24/2008 07:27 AM - ronald -

Status:	Closed	Start date:	
Priority:	Urgent	Due date:	
Assignee:	ronald -	% Done:	0%
Category:	Mulgara	Estimated time:	0.00 hour
Target version:			
Resolution:	fixed		

Description

Twice, on two different machines/os's/jdk's we've seen the ItqlInterpreterBeanUnitTest fail with the following stack trace:

```
org.mulgara.query.QueryException: Unable to load file:/Users/pag/src/mulgara/trunk/data/camera.n3
into rmi://10.0.1.198/server1#itqlmodel
    at org.mulgara.resolver.DatabaseSession.execute(DatabaseSession.java:726)
    at org.mulgara.resolver.DatabaseSession.setModel(DatabaseSession.java:562)
    at org.mulgara.server.rmi.SessionWrapperRemoteSession.setModel(SessionWrapperRemoteSession
.java:123)
    at sun.rmi.server.UnicastServerRef.dispatch(UnicastServerRef.java:305)
    at sun.rmi.transport.Transport$1.run(Transport.java:159)
    at java.security.AccessController.doPrivileged(Native Method)
    at sun.rmi.transport.Transport.serviceCall(Transport.java:155)
    at sun.rmi.transport.tcp.TCPTransport.handleMessages(TCPTransport.java:535)
    at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run0(TCPTransport.java:790)
    at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run(TCPTransport.java:649)
    at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:885)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:907)
    at java.lang.Thread.run(Thread.java:637)
    at sun.rmi.transport.StreamRemoteCall.exceptionReceivedFromServer(StreamRemoteCall.java:25
5)
    at sun.rmi.transport.StreamRemoteCall.executeCall(StreamRemoteCall.java:233)
    at sun.rmi.server.UnicastRef.invoke(UnicastRef.java:142)
    at org.mulgara.server.rmi.RemoteSessionImpl_Stub.setModel(Unknown Source)
    at org.mulgara.server.rmi.RemoteSessionWrapperSession.setModel(RemoteSessionWrapperSession
.java:166)
    at org.mulgara.query.operation.Load.doTx(Load.java:101)
    at org.mulgara.query.operation.DataInputTx.sendMarshaledData(DataInputTx.java:111)
    at org.mulgara.query.operation.Load.execute(Load.java:79)
    at org.mulgara.itql.ItqlInterpreterBean.load(ItqlInterpreterBean.java:707)
    at org.mulgara.itql.ItqlInterpreterBeanUnitTest.testLoadApi8(ItqlInterpreterBeanUnitTest.j
ava:577)
Caused by: org.mulgara.query.QueryException: org.mulgara.query.MulgaraTransactionException: Transa
ction rollback triggered
    at org.mulgara.resolver.MulgaraInternalTransaction.implicitRollback(MulgaraInternalTransac
tion.java:516)
    at org.mulgara.resolver.MulgaraInternalTransaction.execute(MulgaraInternalTransaction.java
:627)
    at org.mulgara.resolver.DatabaseSession.execute(DatabaseSession.java:723)
    at org.mulgara.resolver.DatabaseSession.setModel(DatabaseSession.java:562)
    at org.mulgara.server.rmi.SessionWrapperRemoteSession.setModel(SessionWrapperRemoteSession
.java:123)
    at sun.rmi.server.UnicastServerRef.dispatch(UnicastServerRef.java:305)
    at sun.rmi.transport.Transport$1.run(Transport.java:159)
    at java.security.AccessController.doPrivileged(Native Method)
    at sun.rmi.transport.Transport.serviceCall(Transport.java:155)
    at sun.rmi.transport.tcp.TCPTransport.handleMessages(TCPTransport.java:535)
    at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run0(TCPTransport.java:790)
    at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run(TCPTransport.java:649)
    at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:885)
```

```
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:907)
    at java.lang.Thread.run(Thread.java:637)
Caused by: org.mulgara.query.QueryException: org.mulgara.resolver.spi.ResolverException: Unable to
read input statements
    at org.mulgara.resolver.store.StatementStoreResolver.modifyModel(StatementStoreResolver.java:381)
    at org.mulgara.resolver.InternalResolver.modifyModel(InternalResolver.java:164)
    at org.mulgara.resolver.SetModelOperation.execute(SetModelOperation.java:153)
    at org.mulgara.resolver.MulgaraInternalTransaction.execute(MulgaraInternalTransaction.java:623)
Caused by: org.mulgara.query.QueryException: org.mulgara.query.TuplesException: Exception while re
ading file:/Users/pag/src/mulgara/trunk/data/camera.n3
    at org.mulgara.content.n3.Parser.checkForException(Parser.java:517)
    at org.mulgara.content.n3.Parser.getTriple(Parser.java:539)
    at org.mulgara.content.n3.N3Statements.next(N3Statements.java:389)
    at org.mulgara.resolver.store.StatementStoreResolver.modifyModel(StatementStoreResolver.java:353)
Caused by: java.lang.IllegalStateException: Concurrent Access of [[StringPoolSession]] Attempted
    at org.mulgara.resolver.StringPoolSession.checkCurrentThread(StringPoolSession.java:787)
    at org.mulgara.resolver.StringPoolSession.localizePersistent(StringPoolSession.java:207)
    at org.mulgara.resolver.store.StatementStoreResolver.localizePersistent(StatementStoreReso
lver.java:451)
    at org.mulgara.resolver.PersistentResolverSession.localize(PersistentResolverSession.java:
97)
    at org.mulgara.content.n3.Parser.createBlankNode(Parser.java:453)
    at org.mulgara.content.n3.Parser.getBlankNode(Parser.java:424)
    at org.mulgara.content.n3.Parser.toNode(Parser.java:362)
    at org.mulgara.content.n3.Parser.quad(Parser.java:272)
    at com.hp.hpl.jena.n3.N3AntlrParser.emitQuad(N3AntlrParser.java:66)
    at com.hp.hpl.jena.n3.N3AntlrParser.objectList(N3AntlrParser.java:738)
    at com.hp.hpl.jena.n3.N3AntlrParser.propValue(N3AntlrParser.java:622)
    at com.hp.hpl.jena.n3.N3AntlrParser.propertyList(N3AntlrParser.java:336)
    at com.hp.hpl.jena.n3.N3AntlrParser.statement0(N3AntlrParser.java:287)
    at com.hp.hpl.jena.n3.N3AntlrParser.statement(N3AntlrParser.java:204)
    at com.hp.hpl.jena.n3.N3AntlrParser.document(N3AntlrParser.java:153)
    at com.hp.hpl.jena.n3.N3Parser.parse(N3Parser.java:61)
    at org.mulgara.content.n3.Parser.run(Parser.java:213)
```

Unfortunately, this has not been reproduceable. But interestingly enough the stack trace was identical in both cases.

History

#1 - 07/25/2008 03:49 AM - ronald -

- Status changed from *New* to *In Progress*

Looks like this is easily reproducible under jdk 1.6.

#2 - 08/28/2008 12:54 AM - ronald -

- Status changed from *In Progress* to *Closed*

- Resolution set to *fixed*

Fixed in [r1143](#).