Mulgara - Bug #10

Cleaner Terminated abnormally when quering whole model

08/21/2006 02:40 PM - ben hysell -

Status:	Closed	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	Paula Gearon	**% Done:**	0%
Category:	Mulgara	**Estimated time:**	0.00 hour
Target version:			
Resolution:	fixed		

Description

Mulgara crashes with the following output:

java.lang.Error: Cleaner terminated abnormally

        at sun.misc.Cleaner$1.run(Cleaner.java:130)

at java.security.AccessController.doPrivileged(Native Method)

        at sun.misc.Cleaner.clean(Cleaner.java:127)

at java.lang.ref.Reference$ReferenceHandler.run(Reference.java:124)

Caused by: java.io.IOException: The process cannot access the file because anoth

er process has locked a portion of the file

at sun.nio.ch.FileChannelImpl.unmap0(Native Method)

at sun.nio.ch.FileChannelImpl.access$000(FileChannelImpl.java:26)

at sun.nio.ch.FileChannelImpl$Unmapper.run(FileChannelImpl.java:680)

        at sun.misc.Cleaner.clean(Cleaner.java:125)

        ... 1 more

When the following process takes place:

1. Start a new mulgara instance with an empty server1 directory

2. Run a restore with our data (server 1 directory restores to ~6G)

3. Run the following three querries one right after another

-select $subject $predicate $object from <
rmi://192.168.100.103/server1#data> where $subject $predicate $object;

-select $subject $object from <
rmi://192.168.100.103/server1#data> where $subject $predicate $object;

-select $subject $predicate $object from <
rmi://192.168.100.103/server1#data> where $subject $predicate $object;

```
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The thrid query never returns.  The command line where I started mulgara returns the java error de
scribed above.
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Note: This does not happen on any of the pre-release versions of linux mulgara (Enterprise Redhat
w/same specs).
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History

#1 - 08/21/2006 03:18 PM - Paula Gearon

```
The only recent modification to Mulgara is the update to Lucene 2.0.0.  This was done to help with a afile loc
king bug in an earlier version of Lucene.  None of the Mulgara code explicitly locks files (to the best of my
knowledge), so I believe this problem must be in Lucene somewhere.
<br/>

<br/>
Does the backed up data include any full text models?
```

#2 - 08/21/2006 03:24 PM - Paula Gearon

```
The only recent modification to Mulgara is the update to Lucene 2.0.0.  This was done to help with a afile loc
king bug in an earlier version of Lucene.  None of the Mulgara code explicitly locks files (to the best of my
knowledge), so I believe this problem must be in Lucene somewhere.
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<br/>
Does the backed up data include any full text models?
<br/>

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A more likely problem is with Windows.  A slightly older copy runs on Linux, while the newer one fails on Wind
ows.
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- Does the older one work on Windows?  (If so, then Lucene is probably the problem).
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- Does the newer version work on Linux?  (If so, then Windows is probably the problem).
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Windows file management is different in Windows, since the underlying file APIs have different guarantees on W
indows to all other operating systems.  This has caused problems in the past.
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#3 - 08/21/2006 03:32 PM - ben hysell -

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Sorry, no full text models in the code.
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This issue has been present in every version of mulgara/kowari I have ever tested on an x64 machine.  The same
 sequence of queries has brought them all down in the same manner with varrying degrees of results.
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Older versions of kowari/mulgara would trash the server1 folder, (i.e. I would bring the system back up and no
 queries would complete).  However with the latest 1.0 release the server1 directory seems intact and the syst
em will operate.  I brought the system down this morning after a restore, put it back up, and have been using
it for the past two hours with no issues.
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I have just recently obtained access to a linux machine for testing...the pre-release mulgara did not fail on
the linux 64box.  However I never had a chance to checkout kowari on a linux64 box.
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#4 - 08/21/2006 07:13 PM - ben hysell -

```
Same happens when working from itql shell, only modification is adding a &quot;limit 50&quot;
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to the query so I'm not waiting all day for every triple to scroll by.

#5 - 11/02/2006 06:11 PM - dmoll -

I believe this issue is in Sun's bug tracker here:

http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4938372

There is an issue with memory mapped files in Windows, haven't tested this on Linux or Mac OSX yet.

#6 - 01/04/2007 12:55 AM - Andrae Muys -

http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4938372 does appear to be the problem.

Reopen this bug if it is found on another platform.