Profiling Fedora 4 Delete

Profiling procedure:

1. Deploy fcrepo-webapp
2. Fire up YourKit and attach to Tomcat
3. Open the Jmeter Fedora Profiling Test Plan
   a. Set NUM_THREADS=1 and LOOP_COUNT=100

   b. Enable (toggle) only:
      i. HTTP Authorization Manager
      ii. Fedora 4Run the JMeter Threadgroup "Fedora 4 Create Object"
      iii. Fedora Basic Test/Create Object
   c. Run to create some new objects
   d. Disable Fedora Basic Test/Create Object and enable Fedora Basic Test/Delete Object and run again
4. Start the CPU Sampling in YourKit
5. Let YourKit collect data for some time
6. Click on "Capture Snapshot" to stop profiling and open the results.
7. Look at Hotspots in YourKit results

Name	Time (ms)		Own Time (ms)
<All threads>	51,487	100 %	
java.lang.**Thread.run**()	51,487	100 %	926
org.jgroups.blocks.**TCPConnectionMap$TCPConnection$Receiver.run**()	43,748	85 %	0
java.io.**DataInputStream.readInt**()	43,748	85 %	43,748
org.fcrepo.api.**FedoraNodes.deleteObject**(List)	4,196	8 %	0
org.modeshape.jcr.**JcrSession.save**()	3,160	6 %	0
org.modeshape.jcr.cache.document.**WritableSessionCache.save**(SessionCache, SessionCache$PreSave	3,141	6 %	0
org.modeshape.jcr.cache.document.**WritableSessionCache.persistChanges**(Iterable, SessionEnvir	1,715	3 %	0
org.modeshape.jcr.txn.**Transactions$SimpleTransaction.commit**()	1,173	2 %	0
org.modeshape.jcr.cache.document.**WritableSessionCache.lockAndPurgeCache**(Iterable)	136	0 %	21
org.modeshape.jcr.cache.document.**WritableSessionCache.runPreSaveAfterLocking**(SessionCach	57	0 %	0
org.modeshape.jcr.txn.**SynchronizedTransactions.updateCache**(WorkspaceCache, ChangeSet, Tr	57	0 %	0
org.modeshape.jcr.**JcrSession.createSystemCache**(boolean)	19	0 %	0
org.fcrepo.services.**NodeService.deleteObject**(Session, String)	609	1 %	0
org.modeshape.jcr.**JcrSession.getNode**(String)	304	1 %	0
org.modeshape.jcr.**AbstractJcrNode.remove**()	304	1 %	0
org.fcrepo.**AbstractResource.getAuthenticatedSession**()	410	1 %	0
org.fcrepo.session.**SessionFactory.getSession**(SecurityContext, HttpServletRequest)	410	1 %	0
org.modeshape.jcr.**JcrRepository.login**()	385	1 %	2
org.fcrepo.session.**SessionFactory.getCredentials**(SecurityContext, HttpServletRequest)	25	0 %	0
org.modeshape.jcr.**JcrSession.logout**()	16	0 %	0
org.hibernate.search.backend.impl.lucene.**LuceneBackendQueueTask.run**()	1,746	3 %	0
org.hibernate.search.backend.impl.lucene.**LuceneBackendQueueTask.applyUpdates**()	1,746	3 %	0
org.hibernate.search.backend.impl.lucene.**ExclusiveIndexWorkspaceImpl.afterTransactionApplied**(t	1,746	3 %	0
org.hibernate.search.backend.impl.lucene.**IndexWriterHolder.commitIndexWriter**()	1,746	3 %	0
org.hibernate.search.backend.impl.lucene.**IndexWriterHolder.commitIndexWriter**(ErrorContex	1,746	3 %	0
org.apache.lucene.index.**IndexWriter.commit**()	1,746	3 %	1,746
org.infinispan.loaders.**AbstractCacheStore$2.run**()	795	2 %	0
org.modeshape.jcr.bus.**RepositoryChangeBus$ChangeSetDispatcher.call**()	69	0 %	0
org.jgroups.util.**TimeScheduler3.run**()	1	0 %	0

Profiling setup:

- Servlet container: Tomcat 7.0.37
- Java build: 1.7.0_21-b12
- OS: Mac OS X 10.8.4
- Date: 2013-06-10
- fcrepo4 build version: https://github.com/futures/fcrepo4/commit/9a53bdc1757af9d26e1cf5d177a0f5b327a6bbab