

York University Results - Test 4

Setup

1. Version of Fedora
 - a. 4.5.0 Release
2. Fedora configuration details
 - a. /etc/default/tomcat7

```
JAVA_OPTS="-Djava.awt.headless=true -XX:+DisableExplicitGC -Xms512m -Xmx14g -XX:NewSize=256m -XX:MaxNewSize=2g -XX:MetaspaceSize=64m -XX:MaxMetaspaceSize=2g -Dfile.encoding=UTF-8 -Xloggc:/var/log/tomcat7/java-gc.log -XX:+PrintGCDetails -XX:+PrintGCDateStamps -Dfcrepo.home=/mnt/test"
```

3. System details (OS, memory, processors, hardware specs or virtualization, JVM, etc)
 - a. Ubuntu 14.04.4 LTS

```
Compute Canada
60GB RAM, 16 CPUs (virtual)
$ uname -a
Linux fcrepo 3.13.0-36-generic #63-Ubuntu SMP Wed Sep 3 21:30:07 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux

$ java -version
java version "1.8.0_77"
Java(TM) SE Runtime Environment (build 1.8.0_77-b03)
Java HotSpot(TM) 64-Bit Server VM (build 25.77-b03, mixed mode)

$ ./version.sh
Using CATALINA_BASE:   /usr/share/tomcat7
Using CATALINA_HOME:   /usr/share/tomcat7
Using CATALINA_TMPDIR: /usr/share/tomcat7/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /usr/share/tomcat7/bin/bootstrap.jar:/usr/share/tomcat7/bin/tomcat-juli.jar
Server version: Apache Tomcat/7.0.52 (Ubuntu)
Server built:   Jun 19 2015 08:54:46
Server number:  7.0.52.0
OS Name:        Linux
OS Version:     3.13.0-36-generic
Architecture:   amd64
JVM Version:    1.8.0_77-b03
JVM Vendor:     Oracle Corporation
```

4. Initial state of the repository
 - a. empty
5. Number of client processes/threads (ideally clients are on a separate machine)
 - a. 1
6. Fedora database
 - a. leveldb

Test

Command:

```
$ date > /home/ubuntu/summary.log; ./jmeter -Dfedora_4_server=localhost -Dfedora_4_context=fcrepo/rest -n -t /home/ubuntu/fcrepo4-jmeter/fedora.jmx >> /home/ubuntu/summary.log; /home/ubuntu/summary.log
```

Results

- Length of run
 - Sun Apr 03 21:19:52 UTC 2016 to Mon Apr 04 08:51:06 UTC 2016
- Summary
 - summary = 9153862 in 249405s = 26.5/s Avg: 34 Min: 6 Max: 57281 Err: 2 (0.00%)

- Logs
 - [jmeter-fedora4-newobject-1-threads.csv](#)
 - [perf.log](#)
 - [summary.log](#)