

Princeton Results - Test 5

Setup

1. Version of Fedora
 - a. 4.5.2-SNAPSHOT | Build #4f31e2f9 (2016-06-28) (modeshape5 branch with update to 5.1 from awoods:fcrepo-2062)
2. Fedora Configuration
 - a. `JAVA_OPTS="{JAVA_OPTS} -Dfcrepo.modeshape.configuration=classpath:/config/jdbc-postgresql/repository.json -XX:+UseG1GC -XX:+DisableExplicitGC"`
3. System details
 - a. Fedora: VMWare VM configured with 4x 2.8GHz CPU, 16GB RAM
 - b. JMeter: separate identical VM
 - c. Network: 1000Mb/s ethernet
 - d. OS: Ubuntu 14.04.3 LTS
 - e. JVM: Oracle JDK 1.8.0_66-b17
 - f. Servlet container: Tomcat 7.0.52
 - g. 100GB disk, about 70GB free at beginning of test
 - h. Database: PostgreSQL 9.5 running on the same VM as Fedora
4. Initial State of the Repository
 - a. empty
5. Number of Client Threads
 - a. 1

Test

```
$HOME/jmeter/bin/jmeter -Dfilesize_min=0 -Dfilesize_max=4096 -Dfedora_4_server=lib-fedora1 -Dfedora_4_context=fcrepo/rest -n -t $HOME/jmeter/fedora.jmx
```

- fedora.jmx edited according to instructions in [fcrepo4-jmeter PR #4](#) (enabling "Fedora4 Create Binary Resource" thread group and disabling all others).
- Because of an error in fedora.jmx, the filesize_max value was the default value (100000).

Results

PostgreSQL (Modeshape 5.1)

1. Summary: 7,255,457 in 262,240s = 27.7/s, Avg: 31, Min: 1, Max: 2,173, Err: 1 (0.00%)
2. Status: Test finished when the VM ran out of disk space and PostgreSQL could not insert data.
3. Logs:
 - a. [test5-postgres-mode5.log](#)
 - b. [test5-postgres-mode5.csv.gz](#)
 - c. [test5-postgres-mode5-perf.log](#)

LevelDB

1. Version of Fedora: Release: 4.5.1 | Build #8603e815 (2016-04-29)
2. Summary: 689,328 in 22,574s = 30.5/s, Avg: 28, Min: 8, Max: 520, Err: 1 (0.00%)
3. Status: Test finished when Fedora encountered the error: WARN 20:37:14.467 (arjuna) ARJUNA012117: TransactionReaper::check timeout for TX 0:ffff7f000101:abc7:5783e327:29e842 in state RUN
4. Logs:
 - a. [test5-leveldb.log](#)
 - b. [test5-leveldb.csv.gz](#)
 - c. [test5-leveldb-perf.log](#)