

Modeshape 3.7.1 - Modeshape 3.6.0 comparison

In order to asses any performance differences when switching Modeshape to 3.7.1 a couple of tests were conducted.

Modeshape 3.7.1 fixes the [issue with large file ingests](#) we were seeing, therefore adopting this version is crucial for Fedora 4.

Summary

The performance levels were quite stable and the avg decrease of 1.61 % in the six different tests is well within error tolerance.

Result Overview

Using [benchtool](#) version 0.0.1-SNAPSHOT the following results have been obtained for ingesting binary data

			Modeshape 3.7.1		Modeshape 3.6.0		
Number of Ingests	Size	Threads	Throughput/Thread	Throughput	Throughput/Thread	Throughput	Difference
10	5 GB	1	93.46 MB/sec	93.46 MB/sec	95.92 MB/sec	95.92 MB/sec	-2.56 % (-2.46 MB/sec)
10	5 GB	3	36.3 MB/sec	108.91 MB/sec	37.42 MB/sec	112.27 MB/sec	-3.34 % (-3.75 MB/sec)
10	5 GB	10	16.82 MB/sec	168.25 MB/sec	17.07 MB/sec	170.65 MB/sec	-1.43 % (-2.45 MB/sec)
15	5 GB	15	12.45 MB/sec	186.78 MB/sec	12.23 MB/sec	183.43 MB/sec	+1.82 % (+3.35 MB/sec)
100	200 MB	5	19.16 MB/sec	95.79 MB/sec	19.32 MB/sec	96.6 MB/sec	-0.83 % (-0.81 MB/sec)
1000	1 MB	5	1.04 MB/sec	5.22 MB/sec	1.08 MB/sec	5.4 MB/sec	-3.34 % (-0.18 MB/sec)

Environment

os

Linux 3.12.7-2-ARCH #1 SMP PREEMPT Sun Jan 12 13:09:09 CET 2014 x86_64 GNU/Linux

Java

Java HotSpot(TM) 64-Bit Server VM (build 23.25-b01, mixed mode)

Tomcat Version

7.0.40

Command

E.g. for the first row of the table (Number of ingests=10, size=5g, Number of Threads=1)

```
#> java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://localhost:8080/fcrepo -n 10 -s 5g -t 1 -a ingest
```