

Fedora3 - Fedora 4 Comparison Performance Testing - 10,000 objects

Platform Profile:

- [Test - Platform Profile: saez workstation](#)

Repository Profile:

- [Test - Repository Profile: Basic](#)
- Fedora 3.7.1, with the following profile:

install.properties

```
ri.enabled=true
messaging.enabled=true
messaging.uri=vm\:(broker\:(tcp\://localhost\:61616))
apia.auth.required=false
ssl.available=false
deploy.local.services=false
xacml.enabled=false
fedora.serverContext=fedora
llstore.type=akubra-fs
fesl.authn.enabled=false
fesl.authz.enabled=false
install.type=custom
servlet.engine=existingTomcat
database=postgresql
```

Setup Profile:

- [Test - Setup Profile: 10,000 x 1MB](#)

Benchtool

The benchmarking tool is available on github: <https://github.com/fcrepo4-labs/benchtool>

```
git clone git@github.com:fcrepo4-labs/benchtool.git
cd benchtool
mvn install
```

The benchtool client runs on a different host.

Ingest Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Ingest](#)

Benchtool commands (one thread):

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC3 http://saez:9090 fedoraAdmin changeme 10000 1048576 1 ingest
```

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC4 http://saez:8080 10000 1048576 1 ingest
```

Threads	Objects	Datastream Size	Fedora 3 Time (ms)	Fedora 4 Time (ms)
1	10,000	1MB		
2	10,000	1MB		
4	10,000	1MB		
8	10,000	1MB		

Read Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Read](#)

Benchtool commands (one thread):

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC3 http://saez:9090 fedoraAdmin changeme 10000 1048576 1 read
```

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC4 http://saez:8080 10000 1048576 1 read
```

Threads	Objects	Datastream Size	Fedora 3 Time (ms)	Fedora 4 Time (ms)
1	10,000	1MB		
2	10,000	1MB		
4	10,000	1MB		
8	10,000	1MB		

Update Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Update](#)

Benchtool commands (one thread):

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC3 http://saez:9090 fedoraAdmin changeme 10000 1048576 1 update
```

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC4 http://saez:8080 10000 1048576 1 update
```

Threads	Objects	Datastream Size	Fedora 3 Time (ms)	Fedora 4 Time (ms)
1	10,000	1MB		
2	10,000	1MB		
4	10,000	1MB		
8	10,000	1MB		

Delete Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Delete](#)

Benchtool commands (one thread):

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC3 http://saez:9090 fedoraAdmin changeme 10000 1048576 1 delete
```

```
java -cp target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar org.fcrepo.bench.BenchToolFC4 http://saez:8080 10000 1048576 1 delete
```

Threads	Objects	Datastream Size	Fedora 3 Time (ms)	Fedora 4 Time (ms)
1	10,000	1MB		
2	10,000	1MB		
4	10,000	1MB		
8	10,000	1MB		