

RUNNING INSTRUCTIONS

- 1) First of Unzip the folder and build using ANT.
- 2) Create the database name smallbank, ycsb, voter, sibenchin the database.
- 3) Update your machine credentials in files like sample_ycsb_conf.xml, sample_sibench_conf.xml, Sample_voter_conf.xml, smallbank_conf.xml
- 4) Modify BenchmarkConstants file based on number of records in the database for warmup

Please Note: For voter database you need to first drop the database then create it again

Create and Load SmallBank database(create and load data in the database)

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b smallbank -c config/smallbank_config.xml --create=true  
--load=true --scalefactor=1
```

Insert 5000 entries for each table in database use scale factor to insert more entries will be inserted in multiple of 5000*scalefactor

Run smallbank

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b smallbank -c config/smallbank_config.xml --execute=true -s  
1 -o res --caches=168.62.24.93:11211 --ngcache=true --cachemode=back --numarworkers=10  
--batch=100 --threads=1000 --polygraph=false --scalefactor=1 --arsleep=0 --minw=1 --maxw=1  
--im 10000 --warmup=0.9 --replicas=1 --storesess=false --buffparallel=false  
--manualwarmup=true--persistmode=no_persist --histograms=true
```

In this thread option is to set number of terminals it will running agains

Ngcache for running using cache or without it

Scalefactor for number of entries in database

Create and Load YCSB database

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b ycsb -c config/sample_ycsb_config.xml --create=true  
--load=true --scalefactor=1
```

Insert entries as 1000*scalefactor
Max limit is 800000

Run the benchmark

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b ycsb -c config/sample_ycsb_config.xml --execute=true -s 1  
-o res --caches=168.62.24.93:11211 --ngcache=false --cachemode=back --numarworkers=10  
--batch=100 --threads=1 --polygraph=false --scalefactor=1 --arsleep=0 --minw=1 --maxw=1 --im  
10000 --warmup=0.9 --replicas=1 --storesess=false --buffparallel=false  
--manualwarmup=true--persistmode=no_persist --histograms=true
```

Create and Load voter database

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b voter -c config/sample_voter_config.xml --create=true  
--load=true --scalefactor=1
```

Insert entries in multiple of 6 in contestants while areacode is fixed

Run the benchmark

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b voter -c config/sample_voter_config.xml --execute=true -s 1  
-o res --caches=168.62.24.93:11211 --ngcache=false --cachemode=back --numarworkers=10  
--batch=100 --threads=1 --polygraph=false --scalefactor=1 --arsleep=0 --minw=1 --maxw=1 --im  
10000 --warmup=0.9 --replicas=1 --storesess=false --buffparallel=false  
--manualwarmup=true--persistmode=no_persist --histograms=true
```

Load SIBENCH (insert in multiple of 10)

Create and Load voter database

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b sibench -c config/sample_sibench_config.xml --create=true  
--load=true --scalefactor=1
```

Multiple of 10 values insert at a time.

Run the benchmark

```
java -Xmx8G -cp `./classpath.sh bin` -Dlog4j.configuration=log4j.properties  
com.oltpbenchmark.DBWorkload -b sibench -c config/sample_sibench_config.xml  
--execute=true -s 1 -o res --caches=168.62.24.93:11211 --ngcache=false --cachemode=back  
--numarworkers=10 --batch=100 --threads=1 --polygraph=false --scalefactor=1 --arsleep=0  
--minw=1 --maxw=1 --im 10000 --warmup=0.9 --replicas=1 --storesess=false --buffparallel=false  
--manualwarmup=true--persistmode=no_persist --histograms=true
```