# Pgbench Usage

## Preamble

[Pgbench](http://wiki.postgresql.org/wiki/Pgbench) is a tool to test benchmark of PostgreSQL. Had any issue to install pgbench tool, please refer to [this guide](https://github.com/lizhanhui/Docs/blob/master/InstallPostgreSQL.docx).

## Initialization

***pgbench -i***

## Compose Benchmark Script

Save the content as sql.sql

\set nbranches :scale

\set ntellers 10 \* :scale

\set naccounts 100000 \* :scale

\setrandom delta -5000 5000

\setrandom aid 1 :naccounts

\setrandom bid 1 :nbranches

\setrandom tid 1 :ntellers

BEGIN;

UPDATE pgbench\_accounts SET abalance = abalance + :delta WHERE aid = :aid;

SELECT abalance FROM pgbench\_accounts WHERE aid = :aid;

UPDATE pgbench\_tellers SET tbalance = tbalance + :delta WHERE tid = :tid;

UPDATE pgbench\_branches SET bbalance = bbalance + :delta WHERE bid = :bid;

INSERT INTO pgbench\_history (tid, bid, aid, delta, mtime) VALUES (:tid, :bid, :aid, :delta, CURRENT\_TIMESTAMP);

END;

## Perform Stress Test

***pgbench -c 2 -U postgres -f sql.sql***



