To run, do

```

gradle fatJar

chmod +x scripts/run.py

./scripts/run.py

batch In

run.py

# instances

172.31.33.119

172.31.33.118

172.31.33.117

172.31.33.116

172.31.62.227

172.31.62.228

staleness: 0

numClients: 1

numWorkers: 4

numThreads: 4

numEpochs: 300

numMiniBatchesPerEpoch: 5

K (rank): 100

lambda: 0.05

learningRateEta0: 0.025

learningRateDecay: 0.995

numRows in data: 1000

numCols in data: 1000

Running worker 0 on 127.0.0.1

ssh -i ~/.ssh/aws\_virginia.pem -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null 127.0.0.1 java -ea -Xms512m -Xmx4g -cp "/home/ubuntu/petuum-java-cmu-605/app/matrixfact\_605/build/libs/matrixfact\_605-all.jar:/home/ubuntu/petuum-java-cmu-605" org.petuum.app.matrixfact.MatrixFact -clientId 0 -hostFile /home/ubuntu/petuum-java-cmu-605/machinefile/localhost -dataFile /home/ubuntu/petuum-java-cmu-605/app/matrixfact\_605/dataset/netflix.1k1k.entrylist -learningRateDecay 0.995 -numMiniBatchesPerEpoch 5 -lambda 0.05 -outputPrefix /home/ubuntu/petuum-java-cmu-605/app/matrixfact\_605/output/netflix\_1k1k -learningRateEta0 0.025 -numWorkerThreads 4 -K 100 -numEpochs 300 -staleness 0 &

# experiment

SSP: s=0, == BSP

|  |  |
| --- | --- |
| BSP: bulk synchronous parallel | SSP:stale synchronous parallel |
| barrier |  |
|  |  |
|  |  |
|  |  |
|  |  |