**Generate.py**

import time

start\_time = time.time()

with open('input.ssv', 'w') as out:

symbols = ['AUDUSD','EURUSD','GBPUSD','NZDUSD','USDCAD','USDCHF','USDJPY','USDCNY','USDHKD']

lines = []

for i in range(0,1\*1000\*1000):

q1, r1, q2, r2 = i//100000, i%100000, (i+1)//100000, (i+1)%100000

line = '{} {}.{:05d} {}.{:05d}'.format(symbols[i%len(symbols)], q1, r1, q2, r2)

lines.append(line)

out.write('\n'.join(lines))

print(time.time()-start\_time, i)

**RedisInsert.py**

from timer import \*

from pymongo import MongoClient

uri = "mongodb://127.0.0.1:27017"

client = MongoClient(uri)

client.drop\_database('quotes')

db = client['quotes']

collect = db['quotes']

with Timer() as t:

with open('input.ssv', 'r') as infile:

lines = infile.read().splitlines()

t.setSize(len(lines))

for line in lines:

json\_body = {

"time": time.time(),

"symbol": line[0:6],

"bid": float(line[7:14]),

"ask": float(line[15:])

}

pass

*Imported 1000000 records in 1.03 seconds or 972760 per second*

1. **collect.insert\_one()**

collect.insert\_one(json\_body)

*Imported 1000000 records in 288.82 seconds or 3462 per second*

1. **collect.insert\_many()**

documents = []

for line in lines:

documents.append({

"time": time.time(),

"symbol": line[0:6],

"bid": float(line[7:14]),

"ask": float(line[15:])

})

if len(documents)>1024:

collect.insert\_many(documents)

documents = []

collect.insert\_many(documents)

documents = []

*Imported 1000000 records in 11.63 seconds or 86005 per second*