**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)

**InfluxDBInsertSingleThread.py**

from timer import \*

from influxdb import InfluxDBClient

client = InfluxDBClient('localhost', 8086, 'root', 'root', 'database01')

client.create\_database('database01')

with Timer() as t:

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

lines = infile.read().splitlines()

t.setSize(len(lines))

for line in lines:

**pass**

*Imported 1000000 records in 0.24 seconds or 4218900 per second*

**When pass becomes**

1. **json**

json\_body = [

{

"measurement": "quotes",

"tags": {

"symbol": line[0:6]

},

"fields": {

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

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

}

}

]

*Imported 1000000 records in 1.03 seconds or 971836 per second*

1. **json + write\_points()**

json\_body = [{“measurement”:”quotes”, …}]

client.write\_points(json\_body)

*Imported in 5800.86 seconds or 172 per second*

1. **SSV to JSON then write\_points()**

json\_body = []

for line in lines:

json\_body.append({

"measurement": "quotes",

"tags": {

"symbol": line[0:6]

},

"fields": {

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

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

}

})

if len(json\_body)>1024:

client.write\_points(json\_body)

json\_body = []

client.write\_points(json\_body)

*Imported 1000000 records in 16.35 seconds or 61147 per second*

1. **Batch size changed from 1024 to 4096**

if len(json\_body)>4096:

*Imported 1000000 records in 14.82 seconds or 67472 per second*

adasda