

plots

November 16, 2021

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[ ]: from collections import defaultdict, Counter
import matplotlib.pyplot as plt
import os

def plot(dat, title):
    data = defaultdict(int)
    denom = Counter(dat[0])
    for s,t in zip(dat[0], dat[1]):
        data[s] += t/denom[s]

    lists = sorted(data.items())
    x, y = zip(*lists)
    print("total requests:", len(dat[0]))
    # print(sorted(y)[:10])
    plt.plot(x,y)
    plt.title(title)
    plt.ylabel("Average wait time [ns]")
    plt.xlabel("Block size")
    # plt.show()

def plot_all(filename):
    with open(filename) as f:
        lines = f.readlines()
        for i in range(len(lines)):
            lines[i] = list(map(lambda x: int(x), lines[i][1:-2].
→replace(",", "").split(" ")))
            producers = lines[:2]
            consumers = lines[2:]
    plt.subplot(1,2,1)
    plot(producers, filename + " -- Producers")
    plt.subplot(1,2,2)
    plot(consumers, filename + " -- Consumers")
    plt.rcParams['figure.figsize'] = [50/2.54, 16/2.54]
    plt.show()
```

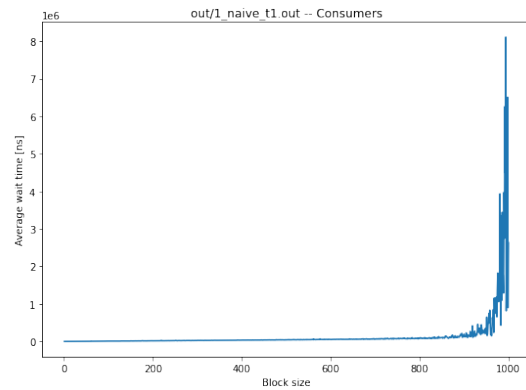
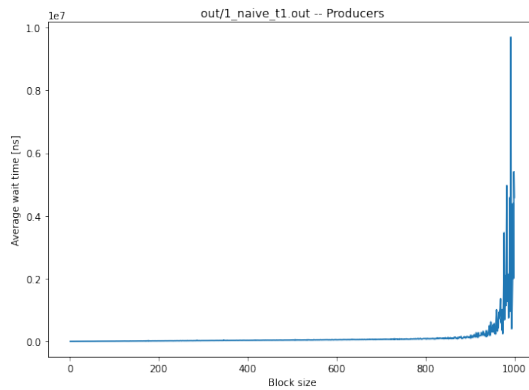
1 Wykresy

W tytułach wykresów, t1, t2, oraz t3 to kolejne testy z zasugerowanych w treści zadania, czyli: “Przykładowy zestaw testów: M równe 1000, 10k, 100k Konfiguracji P-K: 10P+10K, 100P+100K, 1000P+1000K”

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[ ]: folder = "out/"
for f in sorted(os.listdir(folder)):
    plot_all(os.path.join(folder, f))
```

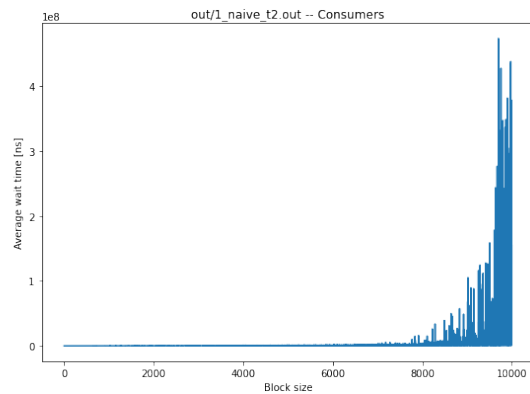
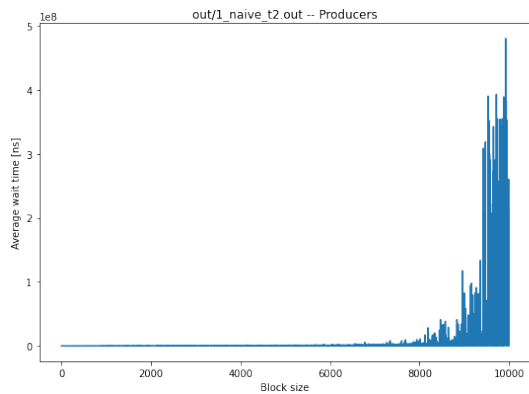
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total requests: 2248927



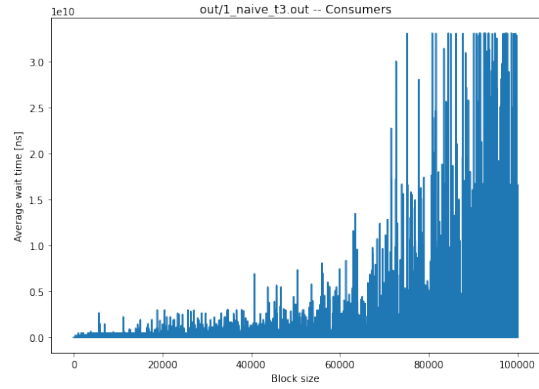
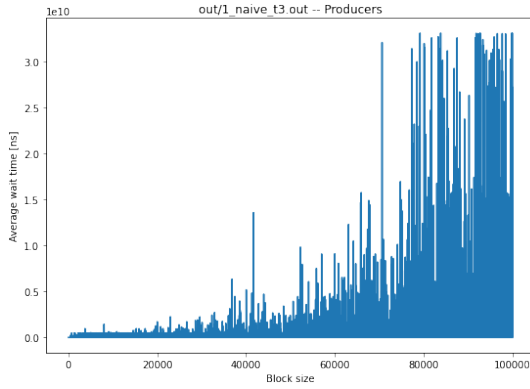
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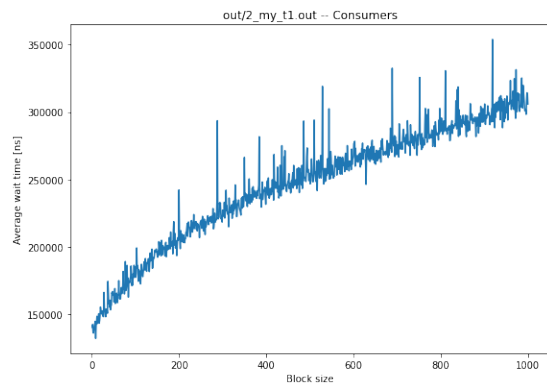
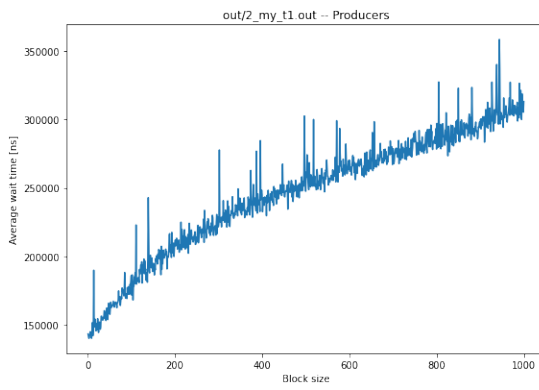
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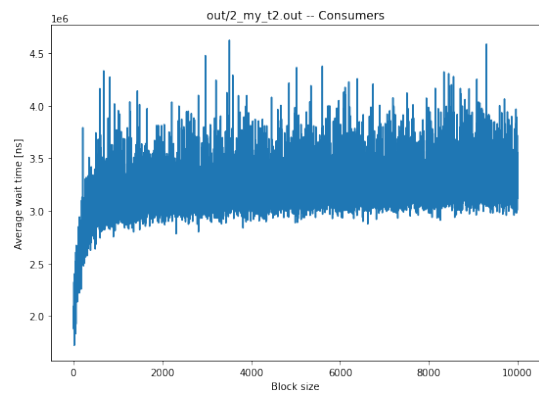
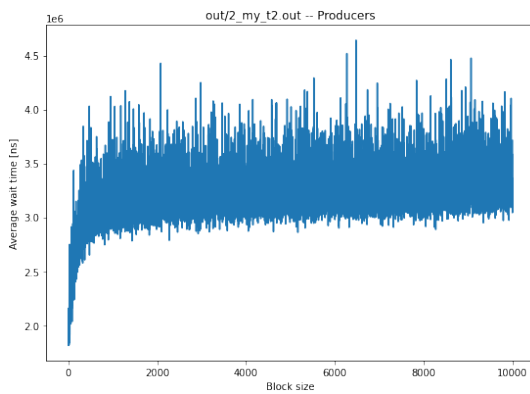
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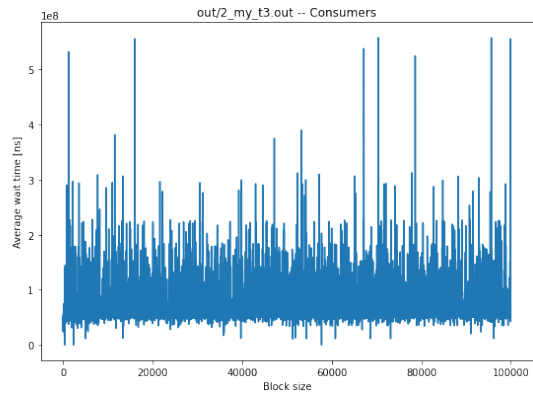
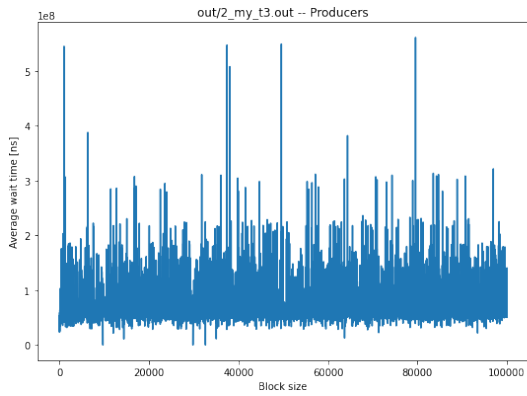


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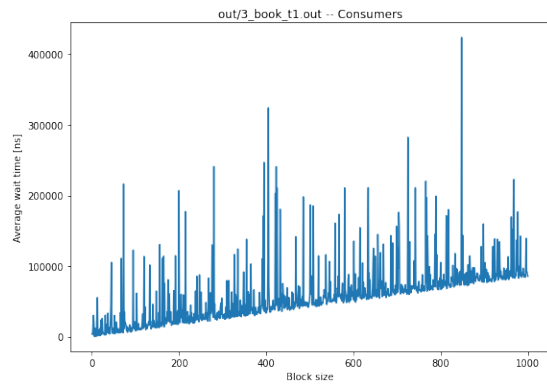
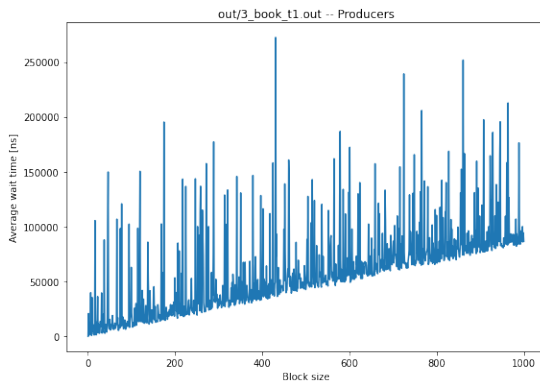
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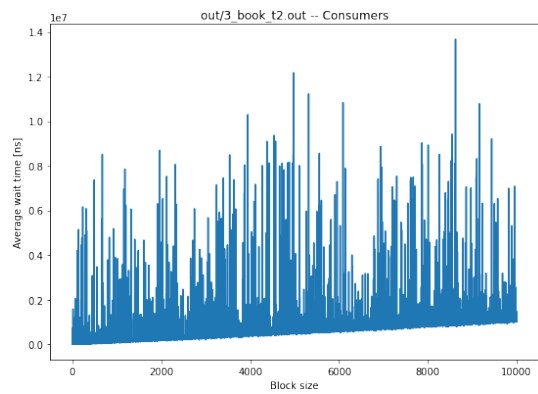
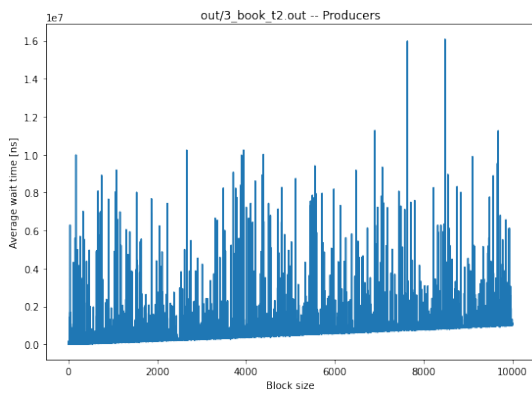
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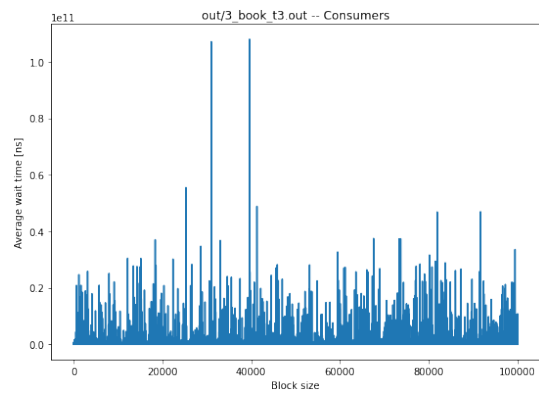
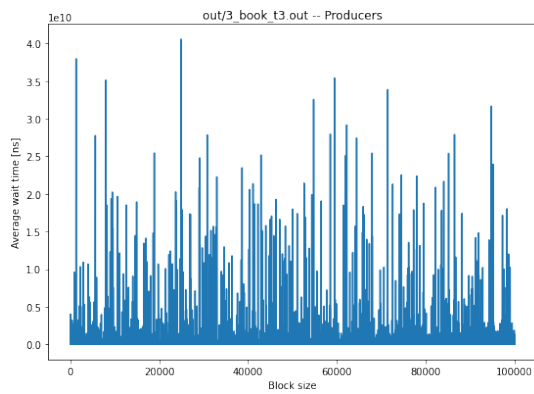


total requests: 4057858
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total requests: 438950

total requests: 437555



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