Untitled

September 25, 2017

```
In [5]: import matplotlib.pyplot as plt
        import numpy as np
In [12]: T = np.zeros(5)
         P = np.zeros(5)
         T_qsort = np.zeros(5)
         n = 0
         with open('stats.txt', 'r') as f:
             for data in f:
                 if n >= 0:
                     data = data.split(' ')
                     if n \% 2 == 0:
                         for i, s in enumerate(data):
                             if (i == 0):
                                 s = s.split('s')
                                 T[n // 2] = float(s[0])
                             elif (i == 3):
                                 P[n // 2] = float(s)
                     else:
                         s = data[0].split('s')
                         T_qsort[n // 2] = float(s[0])
                 n += 1
         S_p = T[0] / T
         E_p = S_p / P
In [13]: print(T)
         print(P)
         print(T_qsort)
         print(S_p)
         print(E_p)
[ 0.096147  0.048814  0.03843
                                0.157313 0.153009]
[ 1.
             4.
                      16.]
        2.
                  8.
[ 0.048375  0.050853  0.048474  0.04866
                                           0.04853]
              1.96966034 2.50187354 0.6111828
[ 1.
                                                   0.6283748 ]
[ 1.
              0.98483017  0.62546838  0.07639785  0.03927343]
```

