cubic cubic

November 29, 2023

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[]: from matplotlib import pyplot as plt
     import numpy as np
     import pandas as pd
     import os, fnmatch
[]: def find(pattern, path):
         result = []
         for root, dirs, files in os.walk(path):
             folder = []
             for name in files:
                 if fnmatch.fnmatch(os.path.join(root, name), pattern):
                     folder.append(os.path.join(root, name))
             if len(folder) > 0:
                 folder.sort()
                 result.append(folder)
         result.sort()
         return result
     def plot_data(paths, xlabel, ylabel):
         for folder in paths:
             if len(folder) > 1:
                 ax = plt.gca()
                 for key,path in enumerate(folder):
                     ax = pd.read_csv(path, sep=' ', header=None).plot(x=0, y=1,__

→ax=ax, alpha=0.7, label=path.split('/')[3], figsize=(10, 5))

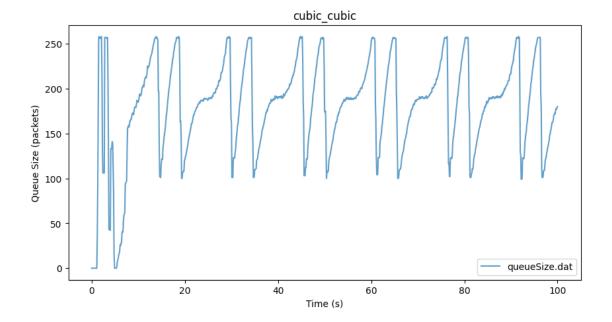
                 ax.set_title(folder[0].split('/')[2])
                 plt.xlabel(xlabel)
                 plt.ylabel(ylabel)
                 plt.show()
             else:
                 path = folder[0]
                 pd.read_csv(path, sep=' ', header=None).plot(x=0, y=1, alpha=0.7,__

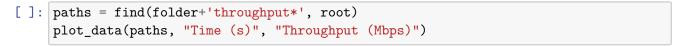
→title=path.split('/')[2], label=path.split('/')[3], figsize=(10, 5))

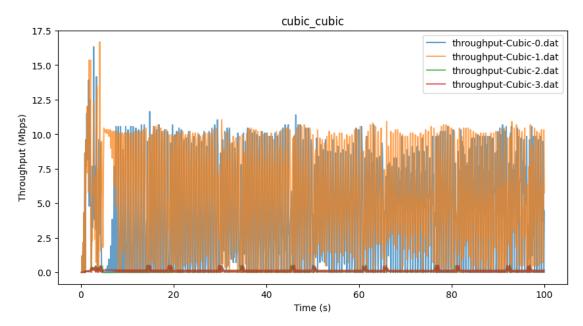
                 plt.xlabel(xlabel)
                 plt.ylabel(ylabel)
                 plt.show()
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root = '../bbr-results/'
folder = '*' + 'cubic_cubic*'
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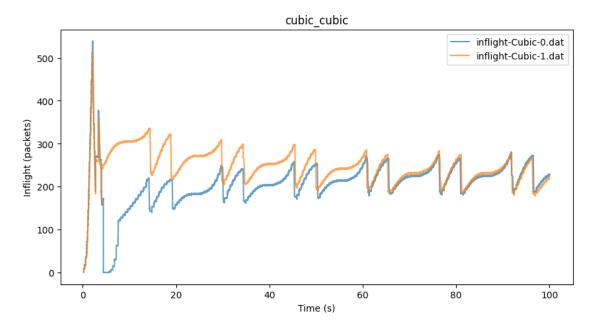
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[ ]: paths = find(folder+'queueSize*', root)
plot_data(paths, "Time (s)", "Queue Size (packets)")
```

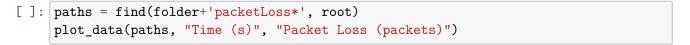


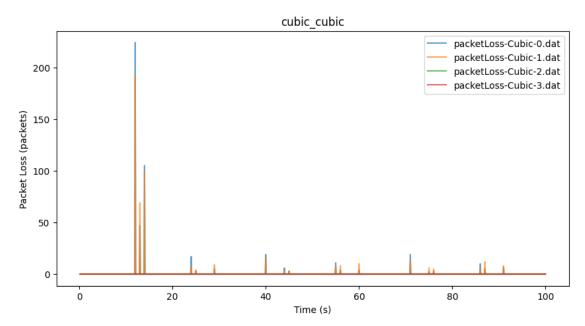




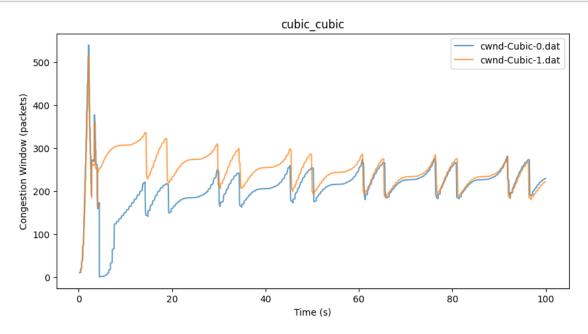
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[ ]: paths = find(folder+'inflight*', root)
plot_data(paths, "Time (s)", "Inflight (packets)")
```

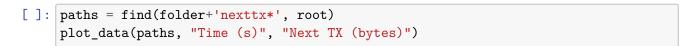


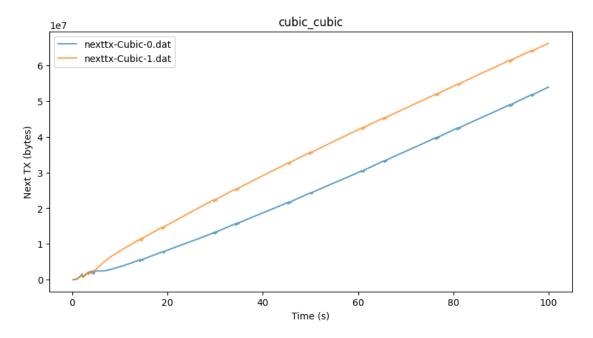




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[ ]: paths = find(folder+'cwnd*', root)
plot_data(paths, "Time (s)", "Congestion Window (packets)")
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[ ]: paths = find(folder+'rtt*', root)
plot_data(paths, "Time (s)", "RTT (s)")
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