analyse_data

January 31, 2021

[1]:
```
import matplotlib.pyplot as plt
import pandas as pd
```

[2]:
```
df = pd.read_csv("onlocalhost.csv")
df.head()
```

[2]:

	RecvTime	oldRecvTime	SendTime	oldSendTime
0	25324960	25324960	25124436	25108576
1	25324993	25324960	25124452	25124436
2	25325009	25324993	25124469	25124452
3	25325009	25325009	25124469	25124469
4	25325025	25325009	25124485	25124469

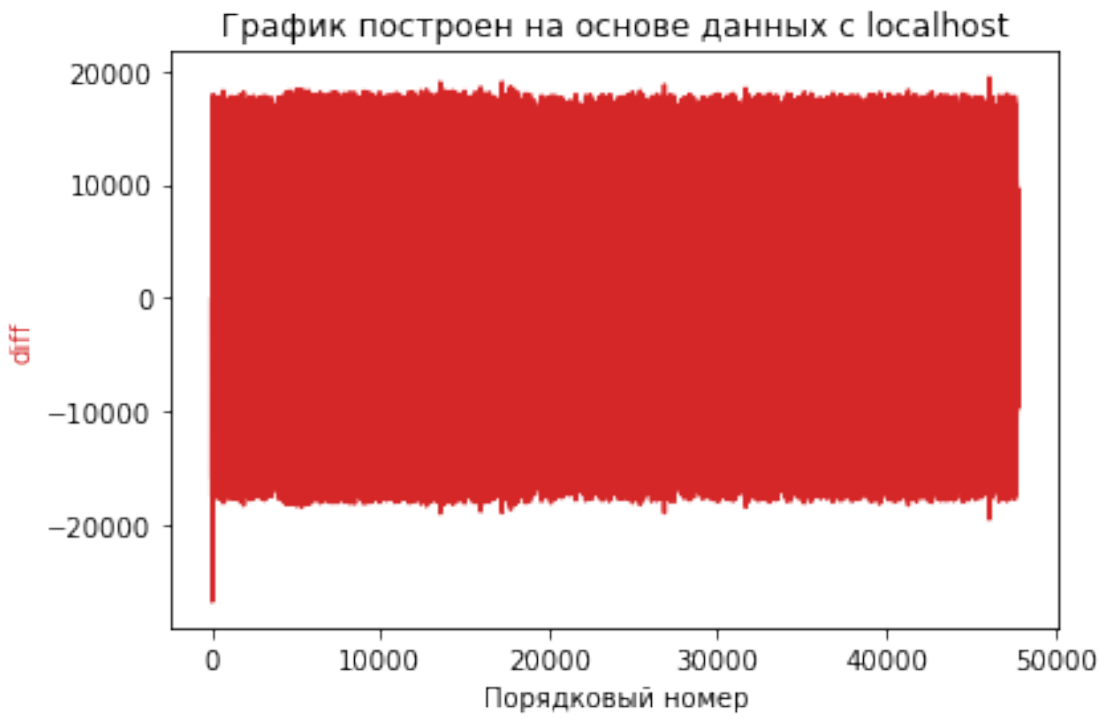
[3]:
```
diff = pd.DataFrame( {"diff":(df["RecvTime"] - df["oldRecvTime"] -␣
↪(df["SendTime"] - df["oldSendTime"]))})
diff = diff[(diff["diff"] < 50000)]
diff = diff[(diff["diff"] > -50000)]
diff.head()
```

[3]:

	diff
0	-15860
1	17
2	-1
3	0
4	0

[4]:
```
fig, ax1 = plt.subplots()

color = 'tab:red'
ax1.set_xlabel('          ')
ax1.set_ylabel('diff', color=color)  # we already handled the x-label with ax1
ax1.plot(diff,color=color)
plt.title("                      localhost")
plt.show()
```



[5]:
```
df = pd.read_csv("25mschannel.csv")
df.head()
```

[5]:

	RecvTime	oldRecvTime	SendTime	oldSendTime
0	61190955	61190955	60953696	60953679
1	61190988	61190955	60953696	60953696
2	61190988	61190988	60953712	60953696
3	61190988	61190988	60953712	60953712
4	61190988	61190988	60953729	60953712

[6]:
```
diff = pd.DataFrame( {"diff":(df["RecvTime"] - df["oldRecvTime"] -␣
 ↪(df["SendTime"] - df["oldSendTime"]))})
diff = diff[(diff["diff"] < 50000)]
diff = diff[(diff["diff"] > -50000)]
```

[7]:
```
fig, ax1 = plt.subplots()

color = 'tab:red'
ax1.set_xlabel('          ')
ax1.set_ylabel('diff', color=color)  # we already handled the x-label with ax1
ax1.plot(diff,color=color)

plt.title("""                    ,                  omnet,
```

```
                    25,            40   80""")
plt.show()
```

[8]:
```
df = pd.read_csv("70mschannel.csv")
df.head()
```

[8]:

	RecvTime	oldRecvTime	SendTime	oldSendTime
0	39004030	39004030	38720601	38702775
1	39004079	39004030	38734642	38720601
2	39004096	39004079	38734658	38734642
3	39004096	39004096	38734674	38734658
4	39004112	39004096	38734691	38734674

[9]:
```
diff = pd.DataFrame( {"diff":(df["RecvTime"] - df["oldRecvTime"] -␣
↪(df["SendTime"] - df["oldSendTime"]))})
diff = diff[(diff["diff"] < 50000)]
diff = diff[(diff["diff"] > -50000)]
```

[10]:
```
fig, ax1 = plt.subplots()

color = 'tab:red'
ax1.set_xlabel('          ')
ax1.set_ylabel('diff', color=color)  # we already handled the x-label with ax1
ax1.plot(diff,color=color)
plt.title("""                    ,                omnet,
```

```
                    70,        150   190""")
plt.show()
```

[11]:
```
df = pd.read_csv("500rate.csv")
df.head()
```

[11]:

	RecvTime	oldRecvTime	SendTime	oldSendTime
0	46682409	46682393	46460505	46441073
1	46682475	46682409	46473006	46460505
2	46682491	46682475	46473022	46473006
3	46682491	46682491	46473038	46473022
4	46682508	46682491	46473038	46473038

[12]:
```
diff = pd.DataFrame( {"diff":(df["RecvTime"] - df["oldRecvTime"] -␣
↪(df["SendTime"] - df["oldSendTime"]))})
diff = diff[(diff["diff"] < 200000)]
diff = diff[(diff["diff"] > -200000)]
```

[13]:
```
fig, ax1 = plt.subplots()

color = 'tab:red'
ax1.set_xlabel('          ')
ax1.set_ylabel('diff', color=color)  # we already handled the x-label with ax1
ax1.plot(diff,color=color)
plt.title("""                    ,                  omnet,
```

```
  200     ,              500   ,                    """)
plt.show()
```

[ ]: