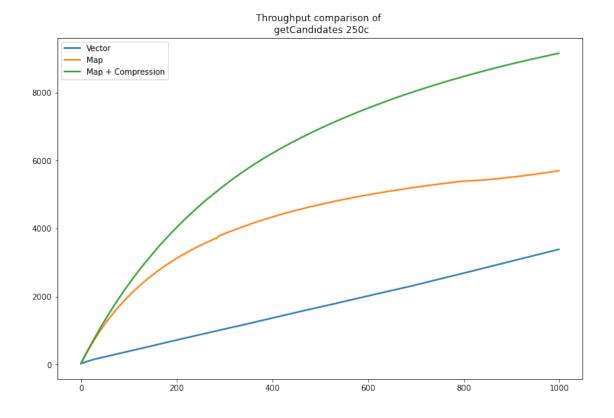
Get Function Data Validation

November 1, 2022

```
[1]: import pandas as pd
    import matplotlib.pyplot as plt
    import numpy as np
[2]: def load_dataset(results):
        df = pd.read_csv(results,__

¬usecols=['timeStamp','elapsed','success','bytes','Latency',
□
     df['totalElapsed'] = df.elapsed.cumsum()
        df['throughput'] = ((df.index+1)/(df.totalElapsed/(df.index+1))*60000)
        return df
[3]: def load_summary(summary, label):
        df = pd.read_csv(summary)
        df.insert(0, "Function", label)
        df.drop(columns=["Average","Min","Max", "# Samples"], inplace=True)
        return df
[6]: dir1= "NearVotingJMeterTests3/"
    dir2= "NearVotingJMeterTests4/"
    dir3= "validation_get/"
[7]: get = load_dataset(dir1+'Get/Get_1000T_250.csv')
    get_sum = load_summary(dir1+'Get/Get_1000T_250_Sum.csv', "get")
    get_v2 = load_dataset(dir2+'Get/Get_1KT.csv')
    get_sum_v2 = load_summary(dir2+'Get/Get_1KT_sum.csv', "get")
    get_compressed_v2 = load_dataset(dir2+'Get/Get_1KT_compressed.csv')
    get_compressed_sum_v2 = load_summary(dir2+'Get_1KT_compressed_Sum.
     get_v3 = load_dataset(dir3+'Get_1KT.csv')
    get_sum_v3 = load_summary(dir3+'Get_1KT_Sum.csv', "get")
[8]: fig, ax = plt.subplots()
    fig.set_figheight(8)
    fig.set_figwidth(12)
```

[8]: <matplotlib.legend.Legend at 0x18c76922910>



```
fig, ax = plt.subplots()
fig.set_figheight(8)
fig.set_figwidth(12)
ax.plot(range(0,1000), get_v3.throughput, linewidth=2.0, label="Validation")
ax.plot(range(0,1000), get_v2.throughput, linewidth=2.0, label="Map v1")
ax.plot(range(0,1000), get_compressed_v2.throughput, linewidth=2.0, label="Map_\to + Compression")
ax.title.set_text('Non Compressed Get Validation')
ax.legend(loc="upper left")
```

[12]: <matplotlib.legend.Legend at 0x18c79126bb0>

