

```
import pandas as pd
import matplotlib.pyplot as plt
```

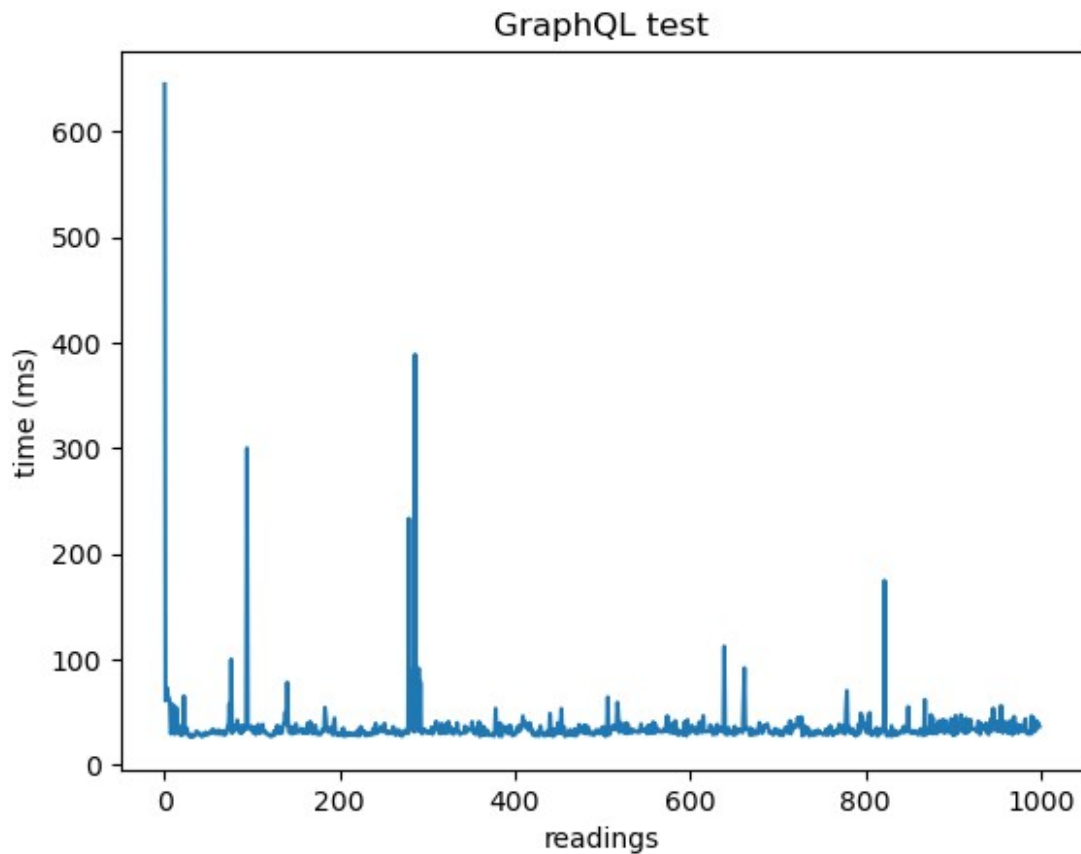
Local test

Test size: 1,000

```
df_graphql_local = pd.read_csv('./graphql-test/local_data.csv')
df_rest_local = pd.read_csv('./rest-test/local_data.csv')

df_graphql_local = df_graphql_local / 1000000
df_rest_local = df_rest_local / 1000000

y = df_graphql_local['Values']
x = range(len(y))
plt.plot(x, y)
plt.xlabel('readings')
plt.ylabel('time (ms)')
plt.title('GraphQL test')
Text(0.5, 1.0, 'GraphQL test')
```

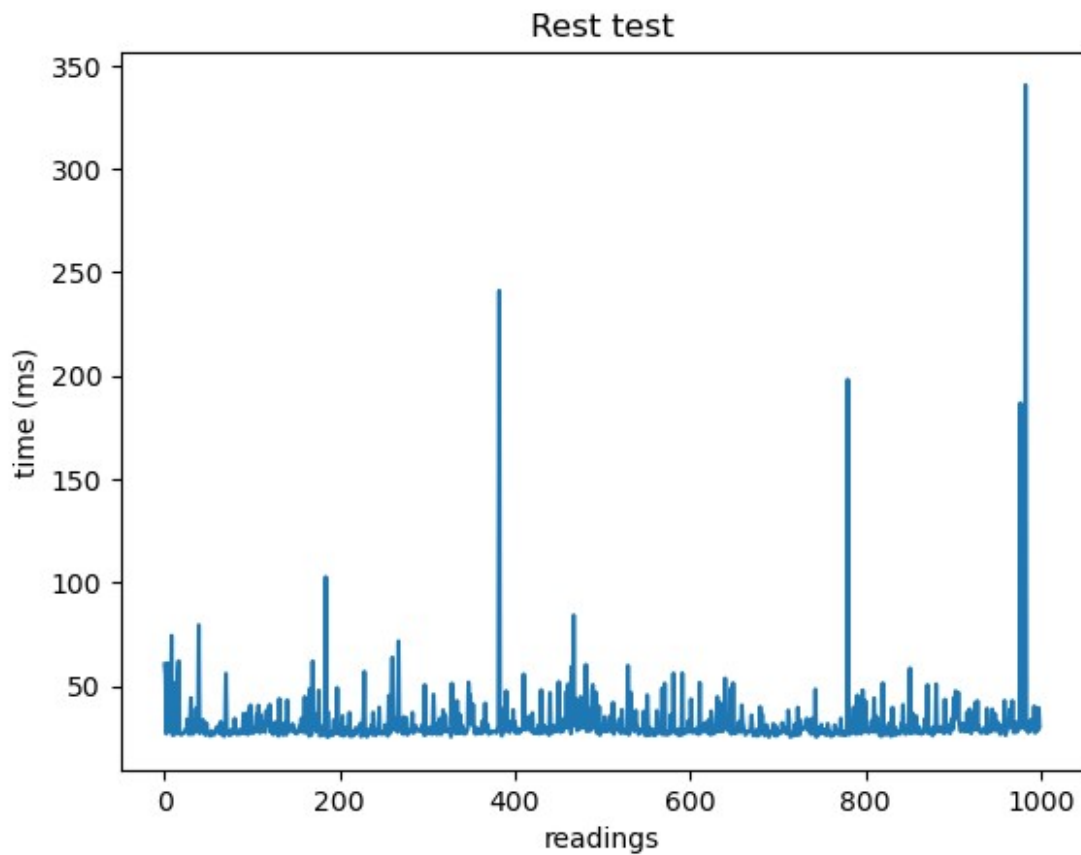


```

y = df_rest_local['Values']
x = range(len(y))
plt.plot(x, y)
plt.xlabel('readings')
plt.ylabel('time (ms)')
plt.title('Rest test')

Text(0.5, 1.0, 'Rest test')

```

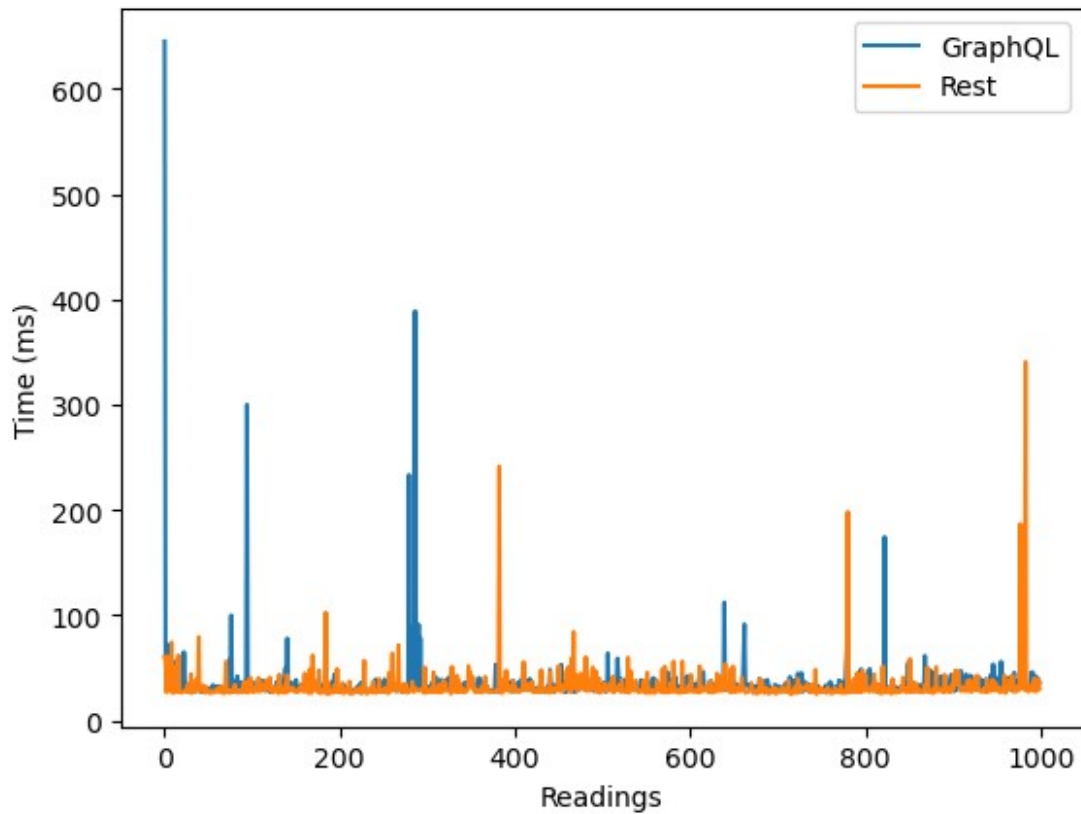


```

y1 = df_graphql_local["Values"]
y2 = df_rest_local["Values"]
x = range(len(y1))
plt.plot(x, y1, label='GraphQL')
plt.xlabel('Readings')
plt.ylabel('Time (ms)')
plt.plot(x, y2, label='Rest')
plt.legend()

<matplotlib.legend.Legend at 0x15a4e5ca0>

```



```
print(df_graphql_local.mean())
print(df_rest_local.mean())
```

```
Values    35.126441
dtype: float64 ms
Values    31.994328
dtype: float64 ms
```

Cloud test

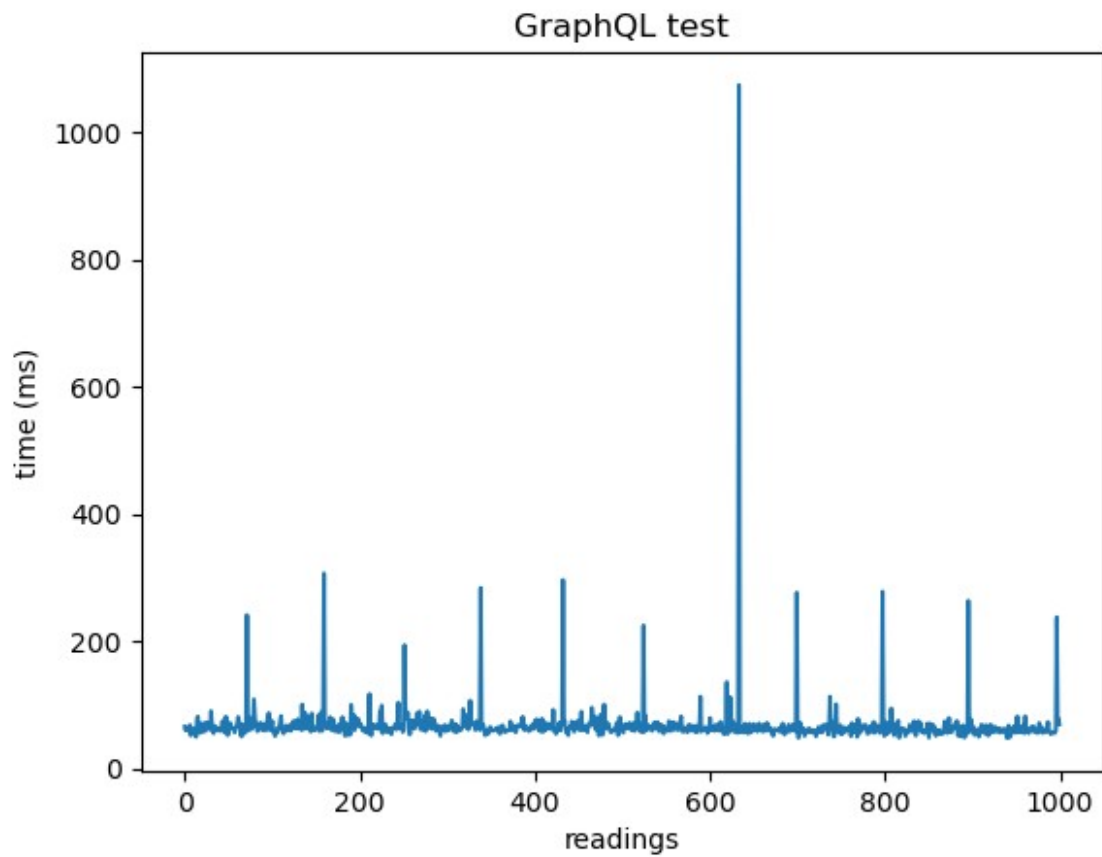
Test size: 1,000

```
df_graphql_cloud = pd.read_csv('./graphql-test/cloud_data.csv')
df_rest_cloud = pd.read_csv('./rest-test/cloud_data.csv')

df_graphql_cloud = df_graphql_cloud / 1000000
df_rest_cloud = df_rest_cloud / 1000000

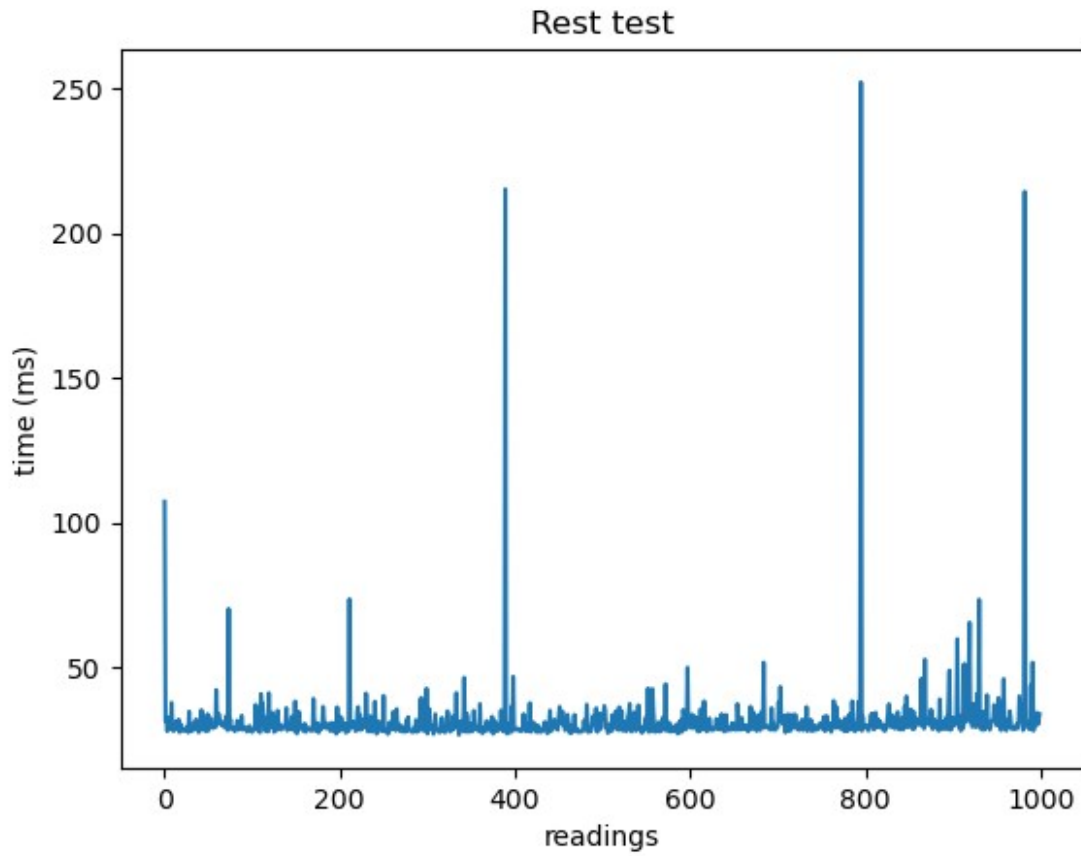
y = df_graphql_cloud['Values']
x = range(len(y))
plt.plot(x, y)
plt.xlabel('readings')
plt.ylabel('time (ms)')
plt.title('GraphQL test')
```

```
Text(0.5, 1.0, 'GraphQL test')
```



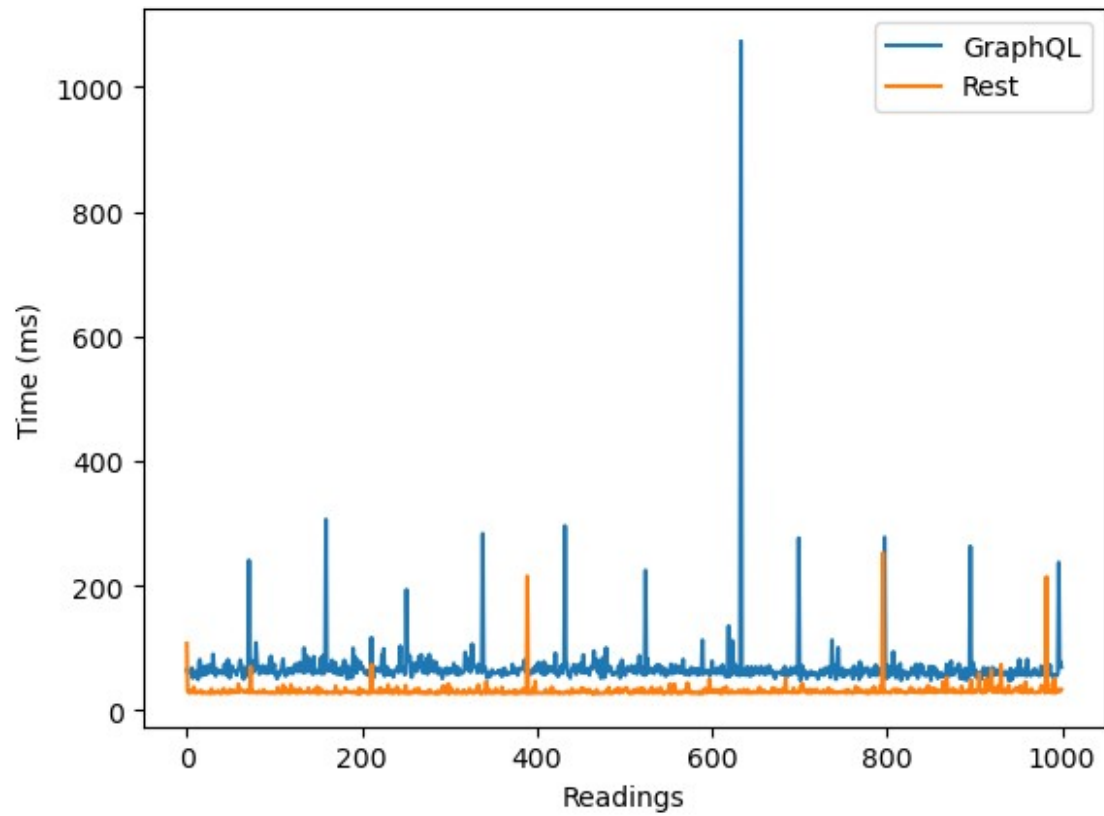
```
y = df_rest_cloud['Values']  
x = range(len(y))  
plt.plot(x, y)  
plt.xlabel('readings')  
plt.ylabel('time (ms)')  
plt.title('Rest test')
```

```
Text(0.5, 1.0, 'Rest test')
```



```
y1 = df_graphql_cloud["Values"]
y2 = df_rest_cloud["Values"]
x = range(len(y1))
plt.plot(x, y1, label='GraphQL')
plt.xlabel('Readings')
plt.ylabel('Time (ms)')
plt.plot(x, y2, label='Rest')
plt.legend()

<matplotlib.legend.Legend at 0x15a69fdf0>
```



```
print(df_graphql_cloud.mean())  
print(df_rest_cloud.mean())
```

```
Values    67.294038  
dtype: float64 ms  
Values    31.273842  
dtype: float64 ms
```