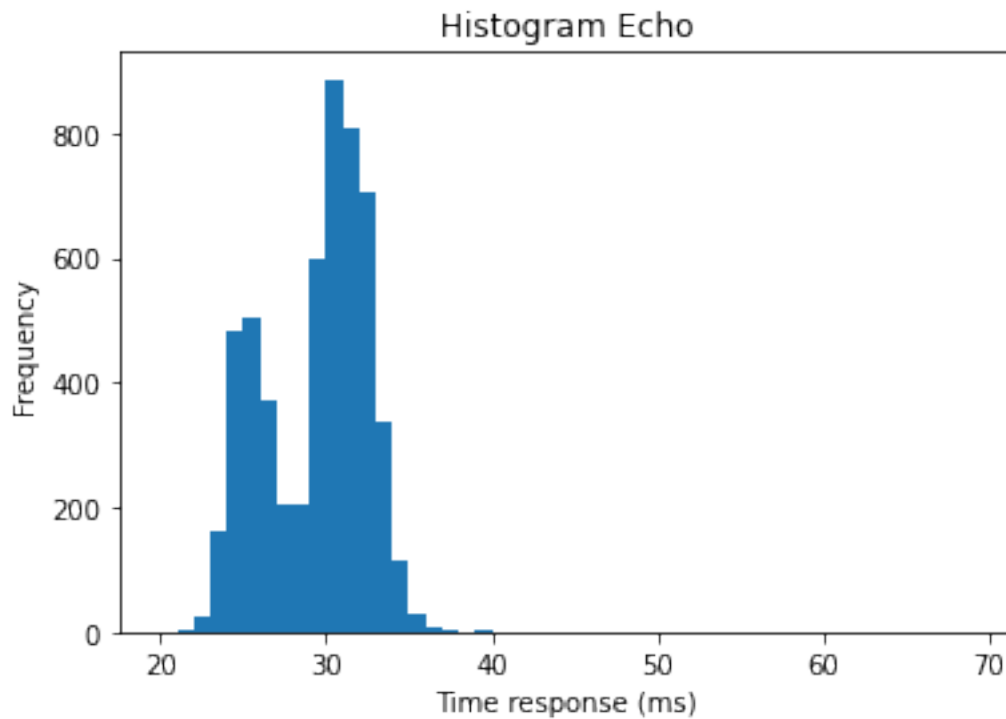


plot

April 18, 2021

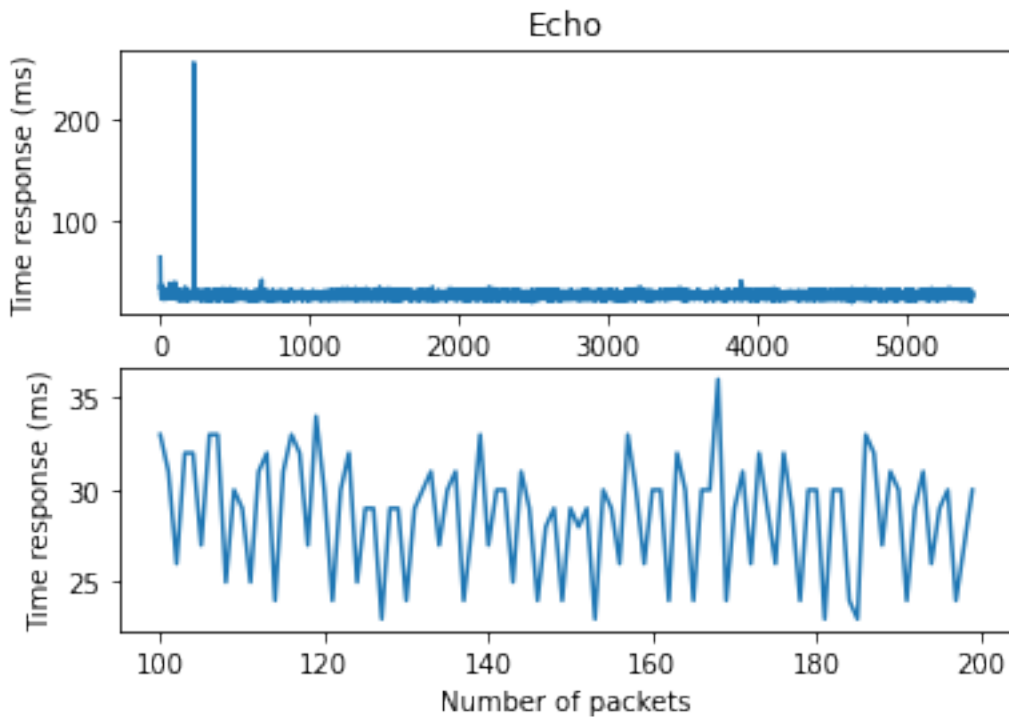
```
[11]: import seaborn as sns
import matplotlib.pyplot as plt
import scipy
import numpy as np
import csv
import pandas as pd
```

```
[12]: echo = np.genfromtxt("../logs/session1/echo.txt")
bins = range(20,70,1)
plt.hist(echo, bins)
plt.title("Histogram Echo")
plt.xlabel("Time response (ms)")
plt.ylabel("Frequency")
plt.savefig("../logs/session1/hist_echo.png")
```

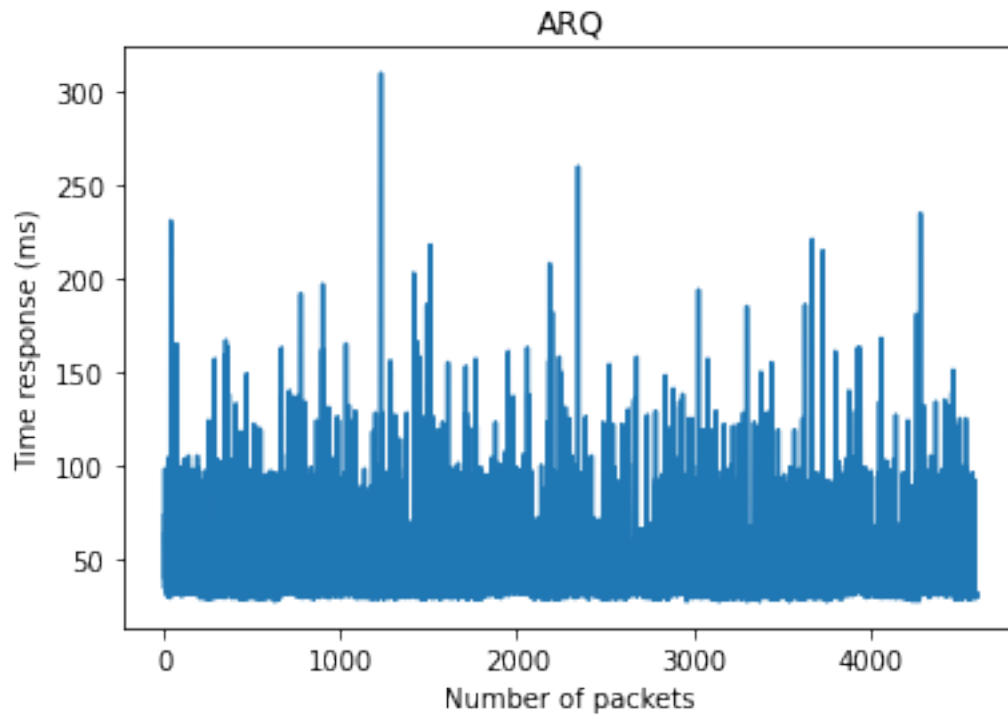


```
[13]: echo = np.genfromtxt("../logs/session1/echo.txt")
echoRange = range(0, len(echo))
plt.subplot(211)
plt.plot(echoRange, echo)
plt.title("Echo")
plt.xlabel("Number of packets")
plt.ylabel("Time response (ms)")

plt.subplot(212)
shortRange = range(100, 200)
plt.plot(shortRange, echo[shortRange])
plt.xlabel("Number of packets")
plt.ylabel("Time response (ms)")
plt.savefig("../logs/session1/echo.png")
```



```
[14]: arq = np.genfromtxt("../logs/session1/arq.txt")
arqRange = range(0, len(arq))
plt.plot(arqRange, arq)
plt.title("ARQ")
plt.xlabel("Number of packets")
plt.ylabel("Time response (ms)")
plt.savefig("../logs/session1/arq.png")
```



```
[17]: arq = np.genfromtxt("../logs/session1/arq.txt")
      bins = range(20, 200, 1)
      plt.hist(arq, bins)
      plt.title("Histogram ARQ")
      plt.xlabel("Time response (ms)")
      plt.ylabel("Frequency")
      plt.savefig("../logs/session1/hist_arq.png")
```

