

```
In [1]: import matplotlib.pyplot as plt

runs = [1,2,3,4,5]

# values are in ms
lambda_data = [
    [397, 90, 15, 13, 8],
    [244, 66, 10, 9, 8],
    [303, 27, 27, 12, 11],
    [290, 43, 21, 15, 9],
    [260, 19, 12, 10, 9]
]

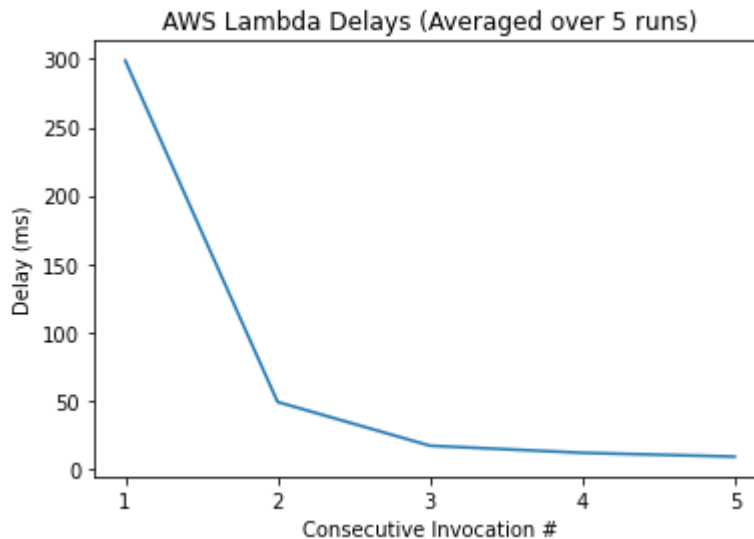
# values are in s
DB_data = [
    [0.239779949,
     0.039309978,
     0.039899826,
     0.039960146,
     0.040019989],
    [0.209889889,
     0.038810015,
     0.040149927,
     0.039729834,
     0.040070057],
    [0.220210075,
     0.038350105,
     0.03990984,
     0.039979935,
     0.039969921],
    [0.217309952,
     0.058520079,
     0.039769888,
     0.03986001,
     0.039930105],
    [0.216030121,
     0.039690018,
     0.03993988,
     0.019939899,
     0.040019989]
]

def average(arr):
    res = []

    for i in range(len(arr)):
        S = 0
        for j in range(len(arr[i])):
            S += arr[j][i]
        res.append(S / len(arr[i]))

    return res
```

```
def multiply(arr, m):  
    return [elem * m for elem in arr]  
  
plt.plot(runs, average(lambda_data))  
plt.title('AWS Lambda Delays (Averaged over 5 runs)')  
plt.xlabel('Consecutive Invocation #')  
plt.ylabel('Delay (ms)')  
plt.xticks([1,2,3,4,5])  
plt.show()
```



```
In [2]: plt.plot(runs, multiply(average(DB_data), 1000)) # multiply each by 1000 to convert from  
plt.title('AWS DynamoDB Delays (Averaged over 5 runs)')  
plt.xlabel('Consecutive Invocation #')  
plt.ylabel('Delay (ms)')  
plt.xticks([1,2,3,4,5])  
plt.show()
```

