

soham

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In [52]: import numpy as np
import matplotlib.pyplot as plt
x=np.arange(0,61)
y=[0.000154,0.000169,0.000166,0.000177,0.000168,0.022264,0.022854,0.022889,0.022994,0.0
y=np.append(y,np.ones(38))
plt.plot(x,y*1000)
ax=plt.gca()
ax.set_ylim([-1,50])
y1=[0.000154,
0.000169,
0.000166,
0.000177,
0.000168,
0.000165,
0.000169,
0.000172,
0.000177,
0.000179,
0.000163,
0.000196,
0.000166,
0.000166,
0.000173,
0.000196,
0.000173,
0.000168,
0.000172,
0.000164,
0.000174,
0.000177,
0.000180

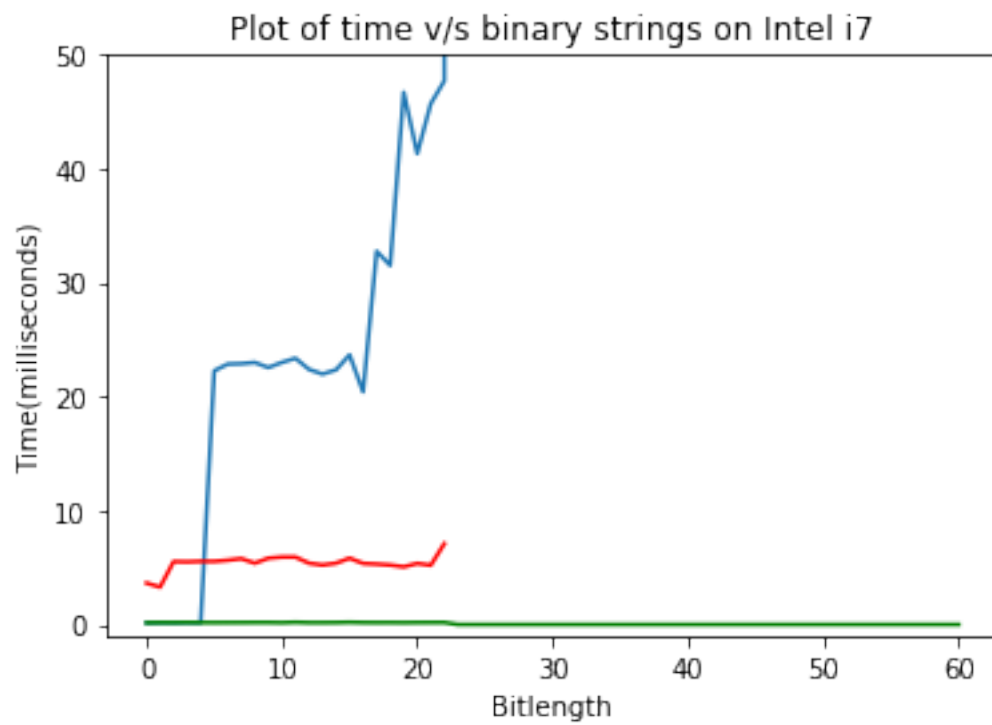
]
y1=np.append(y1,np.zeros(38))
plt.plot(x,y1*1000,'g')
ax=plt.gca()
ax.set_ylim([-1,50])
y2=[0.000182,
```

```

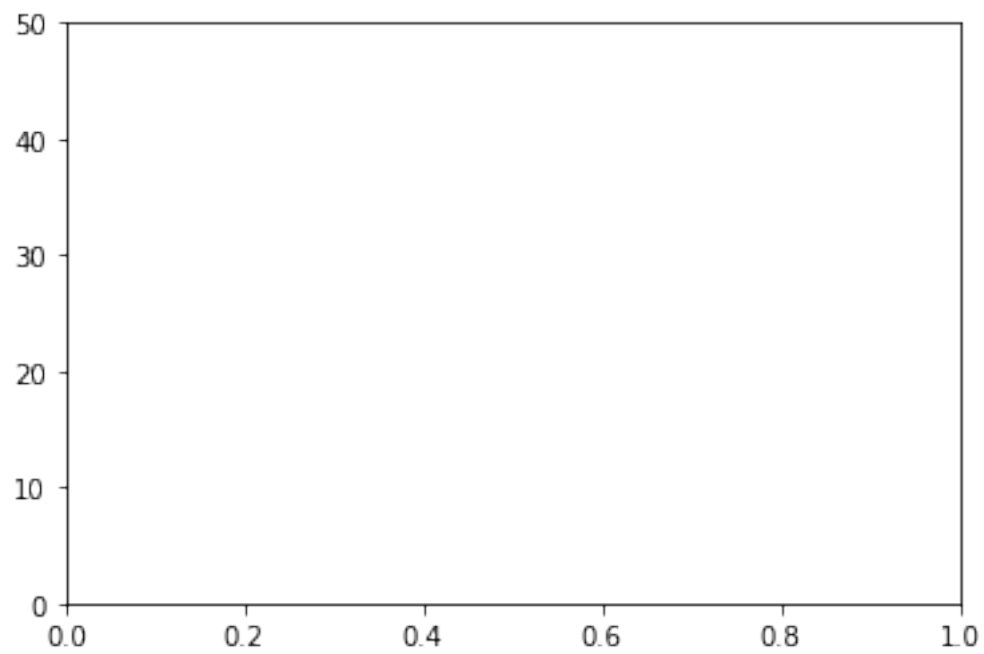
0.000164,
0.000276,
0.000275,
0.000277,
0.000277,
0.000282,
0.000289,
0.000269,
0.000291,
0.000296,
0.000296,
0.000269,
0.000261,
0.000269,
0.000291,
0.000268,
0.000265,
0.000261,
0.000253,
0.000268,0.000260,0.000355]
y3=np.multiply(y2,20000)
x1=np.arange(0,23)
plt.plot(x1,y3,'r')
plt.ylabel('Time(milliseconds)')
plt.xlabel('Bitlength')
plt.title('Plot of time v/s binary strings on Intel i7')
plt.show()

ax=plt.gca()
ax.set_ylim([0,50])

```



Out[52]: (0, 50)



```
In [48]: a=[1,2,3]
         b=np.multiply(a,2)
         print(b)
```

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[2 4 6]
```