

Problem 5

Output:

"numerator" 78539649

"denominator" 100000000

$$\frac{\pi}{4} = 0.78539649$$

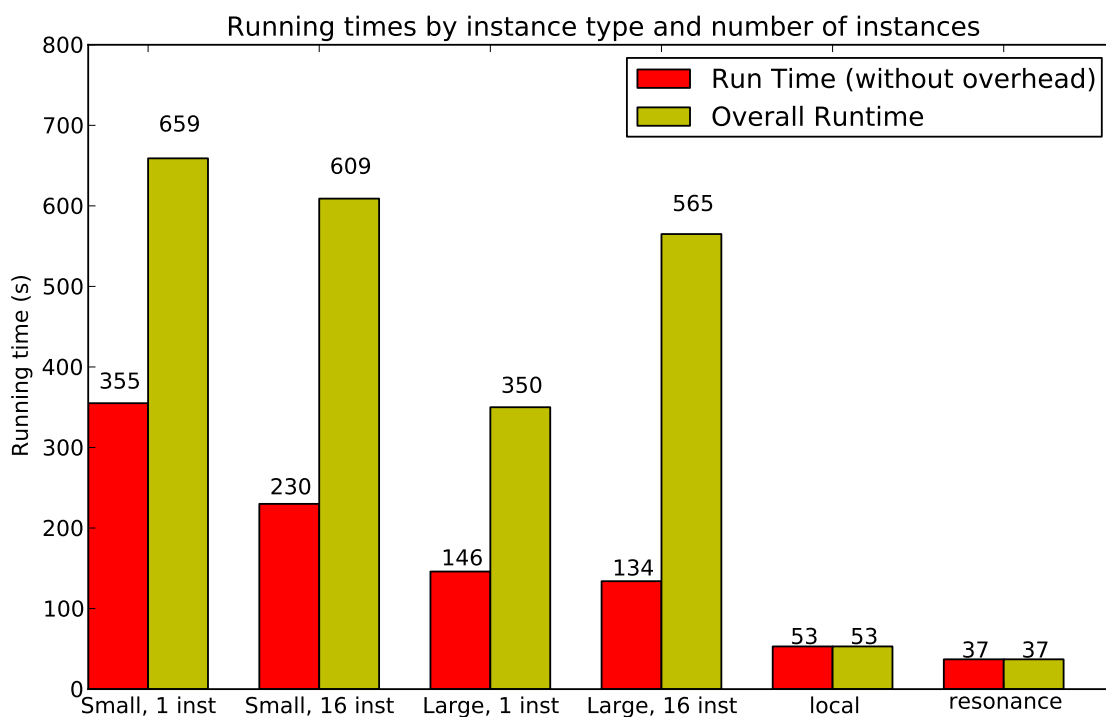


Figure 1: Bar graph showing running times for *P5.py* on Local Machine, Resonance Node, and various Amazon EMR instances.