

# Assignment 1 Report

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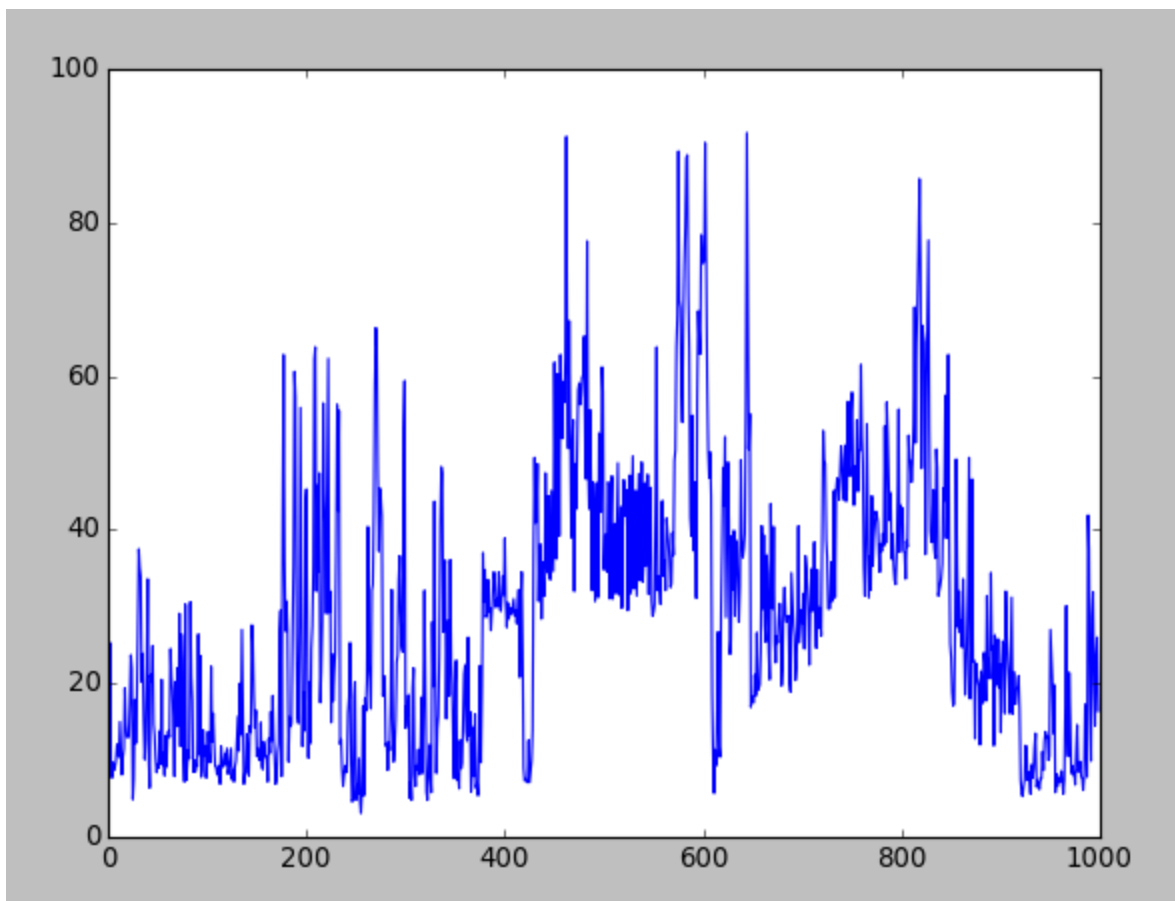
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## How to run:

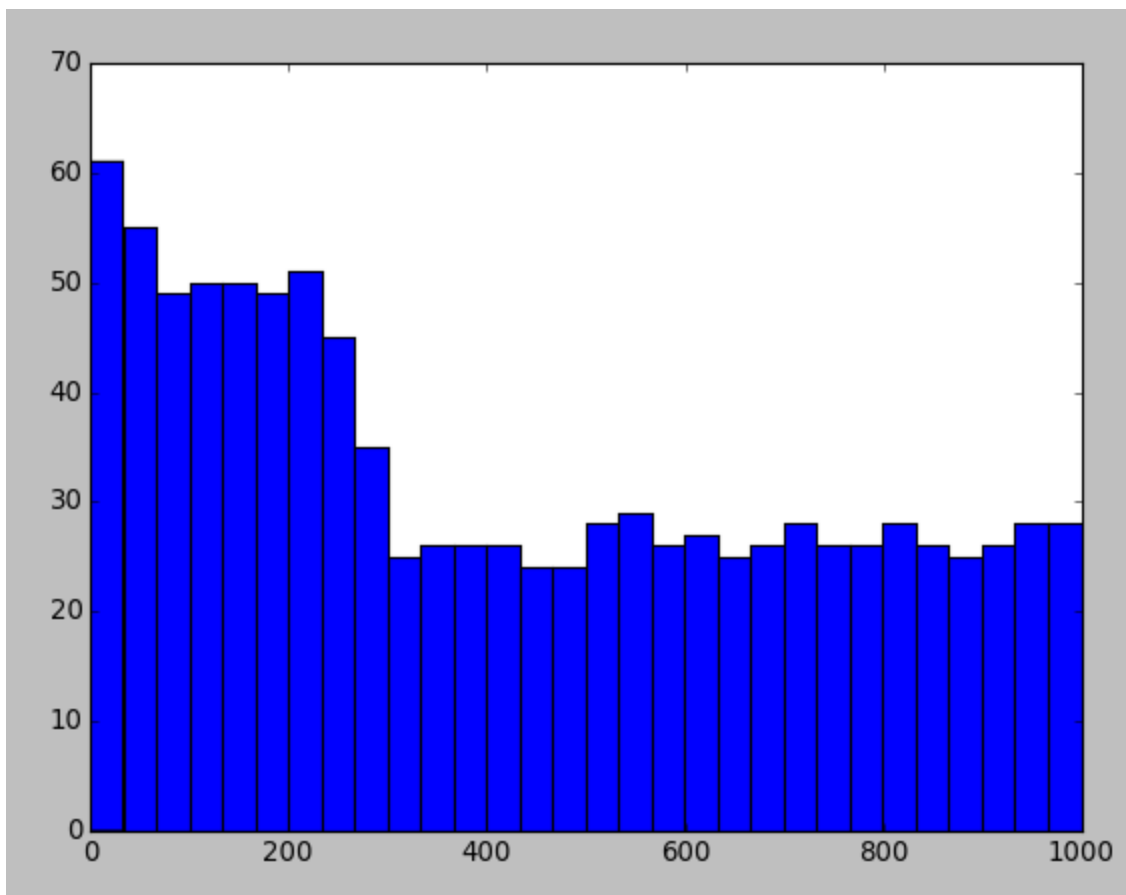
To generate usage file: `python cpu_time.py > cpu_usage`

To plot: `python plot.py`

## Plot of Recorded CPU Usage v/s Time:



Histogram of variation in timestamp values:



(in milliseconds)

### Reason for non-uniform sample interval:

The process goes into Non-Runnable state when sleep system call is given. When the timer goes off, an interrupt is generated which causes the process to get into Runnable state. But, if processor is busy at that time, the process has to wait. This waiting time causes the sample interval to be non-uniform.