* List your system hardware specifications (1 point)
* Determine the minimum resources needed for: (2 points)
  + No GUI (Ubuntu Net Install/Command Line Only)
    - Minimum RAM – nearest 64MB
    - Minimum CPU - nearest 10%
  + GUI (Ubuntu and Lubuntu)
    - Minimum RAM – nearest 64MB
    - Minimum CPU % - nearest 10%
* sysbench cpu run (2 points)
  + Performance at 100% CPU
  + Performance at 50% CPU
  + Performance at Minimum % CPU
    - 400-500 total events
  + For each run record the results on:
    - CPU Speed
    - General Statistics
    - Latency
* Plot your results on a 4 bar graph comparing the three VMs (5 points)
  + CPU minimum for 400-500 total events
  + Minimum RAM
  + Total Events at 100%
  + Total Events at 50%
  + Latency Avg (ms)
  + Latency Highest

# VM Benchmark

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# Host Specifications:

* Intel Core i7 8750H 3.9GHz 6 core (12 threads)
* 16 GB ddr4 memory

# Minimum Specifications for VMs:

1. Ubuntu Net Install/Command Line Only:
   1. RAM:
   2. CPU: 1 core, 1% (can’t get lower…)
2. Lubuntu:
   1. RAM:
   2. CPU:
3. Ubuntu Desktop:
   1. RAM:
   2. CPU:

# Sysbench CPU Run:

1. Ubuntu Net Install/Command Line Only:
   1. Performance at 100% CPU:
      1. CPU Speed (Events per second): 1390.47
      2. General Statistics (Total Time/# of Events): 10.0005s/13907
      3. Latency (min/avg/max/95%/sum): 0.69/0.72/2.19/0.75/9994.62 ms
   2. Performance at 50% CPU:
      1. CPU Speed (Events per second): 727.12
      2. General Statistics (Total Time/# of Events): 10.0255s/7291
      3. Latency (min/avg/max/95%/sum): 0.71/1.37/56.35/0.77/10019.38 ms
   3. Performance at Minimum % CPU (855 events):
      1. CPU Speed (Events per second): 85.26
      2. General Statistics (Total Time/# of Events): 10.0255/855
      3. Latency (min/avg/max/95%/sum): 0.71/11.72/197.19/99.33/10022.73 ms
2. Lubuntu:
   1. Performance at 100% CPU:
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):
   2. Performance at 50% CPU:
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):
   3. Performance at Minimum % CPU (400-500 events):
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):
3. Ubuntu Desktop:
   1. Performance at 100% CPU:
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):
   2. Performance at 50% CPU:
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):
   3. Performance at Minimum % CPU (400-500 events):
      1. CPU Speed (Events per second):
      2. General Statistics (Total Time/# of Events):
      3. Latency (min/avg/max/95%/sum):