**SYS 140 – Week 3 Lab Instructions**

**Instructions: (Follow instructions carefully!)**

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**SYS 140**

**Chapter 3 Lab**

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**Objective:**

To obtain some basic knowledge of various types of processors used in computers, mobile devices, and laptops. Being able to compare and contrast these processors is important. Processors in devices are rapidly changing.

**Assignment Purpose:**

Around Week 6, you will have to create a quote for a computer and select the components. Then you will need to explain why you chose those components based on how you use the computer. This assignment and subsequent assignments are preparing you for that comprehensive assignment.

**Questions:**

**For each question, provide the source where you found the information. YOU WILL NOT RECEIVE CREDIT FOR ANY QUESTIONS THAT DO NOT PROVIDE THEIR SOURCE.**

1. Check the processor that is in your mobile device (e.g. mobile phone or tablet). If you don’t have a mobile device, then locate a mobile phone or tablet online and respond to the questions below.

1. **What type of processor does it use? (1 point)**

**quad-core Apple A10 Fusion processor**

1. **What are some features of the processor for your device? (2 points)**

**3GB of RAM, 5.50-inch touchscreen display with a resolution of 1080x1920 pixels 401 PPI.**

Source(s) Used:[https://gadgets.ndtv.com/apple-iphone-7-plus-3767#:~:text=Apple%20iPhon](https://gadgets.ndtv.com/apple-iphone-7-plus-3767#:~:text=Apple%20iPhone%207%20)

[e%207%20](https://gadgets.ndtv.com/apple-iphone-7-plus-3767#:~:text=Apple%20iPhone%207%20) Plus%20is,comes%20with%203GB%20of%20RAM.

1. Locate another model of a mobile device you chose online. Respond to the same questions as above:

**c. What type of processor does it use? (1 point)**

**Hexa-core (2× high power Lightning cores at 2.66 GHz + 4× low power Thunder cores at 1.82 GHz)**

**d. What are some features of the processor for the device? (2 points)**

4GB, 2436‑by‑1125-pixel resolution at 458 ppi.

e. **Based on your device, what features in your processor or the other device you found are advantageous. For example, if you found features in your processor that were better than the other device, explain why. If you found features in the other processor that would beneficial based on how you use your device, explain it. Select two or three features. (2 points)**

**The iphone 11 pro has a great processor that we can play games with, but iphone 7 it has an okay processor but not for gaming.**

Source(s) Used: https://www.google.com/search?q=iphone+11+pro+vs+iphone+7+plus&pcmp=f

1. **What are the basic differences between INTEL’s I5, I7, and I9 processors? (3 points)**

**Core I9 is the fastest processor than I5 and I7. It was meant for powerful users. Core I9 have up to 18 cores. Core I5 and I7 do not leverage the chipset’s qualities as the core I9 does. I7 and I9 now supported by Hyper-Threading for virtual cores but now I5 is not fast enough.**

Source(s) Used:https://www.makeuseof.com/tag/intel-core-i9-vs-i7-vs-i5-cpu/

1. Investigate AMD and Intel Processors. **Provide some relevant information on what you found (speed, cores, cache, name, etc.). Select two of the available processor models to describe. (2 points per processor model)**

Intel Core i7-1160G7 Processor: it is the 11th generation intel i7 core processor. It has 4 cores and 8 threads. It has 2 GT/S bus speeds and 32 GB of Max memory. The i7 package size is 26.5x18.5. It is 64-bit and it has 2 channels of memory.

Intel Core i5-1130G7 Processor: it is the 11th generation intel i5 core processor. It has 4 cores and 8 threads. It has 2 GT/S bus speeds and 32 GB of Max memory. The i7 package size is 26.5x18.5. It is 64-bit and it has 2 channels of memory.

Some potential AMD processors: <https://www.amd.com/en/products/processors-desktop>

Some potential Intel processors: <https://www.intel.com/content/www/us/en/products/processors/core.html>

Source(s) Used: <https://www.intel.com/content/www/us/en/products/processors/core/i5-processors/i5-1130g7.html>

https://www.intel.com/content/www/us/en/products/processors/core/i7-processors/i7-1160g7.html

Submit your typed lab to the appropriate assignment submission area. Make sure you provide your sources of information.