

Exercise 1

If a task takes a computer 1 hour to perform in 2017, according to Moore's Law as taught in lectures, approximately how long would it take a similarly priced computer to perform the task in 2020?

- a) 30 seconds
- b) 15 minutes
- c) 8 minutes
- d) 10 minutes
- e) 1 minute

Exercise 2

A \$2000 computer in year xxxx takes around 24 minutes to do a task. A \$2000 computer in 2017 takes around 6 minutes to do the same task. What year is xxxx according to Moore's Law as taught in lectures?

a) 2015

b) 2011

c) 2010

d) 2014

e) 2008

Exercise 3

Look at the following computer specifications:

Intel Core i7-6800K 6 Core 3.4 GHz

15 MB CPU cache

32 GB DDR4 2800MHz NVIDIA

GTX1080 8GB GDDR5

2TB SATA3 HDD

500GB SATA3 SSD

Which of the following statements is TRUE?

- a) This computer is equipped with a quad-core CPU.
- b) There is a total of approximately 40 GB of volatile memory.
- c) This computer does not have a discrete graphics card.
- d) This computer has 2TB of secondary memory.
- e) The 15 MB CPU cache is the slowest form of memory available on this computer.