

ECE571: Advanced Microprocessor Design – Homework 11
Fall 2019

Due: Thursday 6 December 2019, 2:00pm

Create a document that contains the answers to the questions below. A .pdf or .txt file is preferred but I can accept MS Office or Libreoffice format if necessary.

1. Read the following article:

- **NVIDIA Reveals Next-Gen Turing GPU Architecture: NVIDIA Doubles-Down on Ray Tracing, GDDR6, & More** by Ryan Smith

<https://www.anandtech.com/show/13214/nvidia-reveals-next-gen-turing-gpu-architecture>

- Answer the following questions:

- (a) What is VirtualLink used for?
- (b) How much faster in GDDR6 RAM than GDDR5?
- (c) How many floatint point operations per second can the CUDA cores provide?

2. Read the following website article:

- **AMD Announces Radeon RX 5700 XT & RX 5700: The Next Gen of AMD Video Cards Starts on July 7th At \$449/\$379** by Ryan Smith, 10 June 2019

<https://www.anandtech.com/show/14528/amd-announces-radeon-rx-5700-xt-rx-5700-series>

- Answer the following questions:

- (a) What is DSC (Display Stream Compression) good for?

3. Submitting your work.

- Create the document containing the answers to the questions asked.
- Please make sure your name appears in the document.
- e-mail the file to me by the homework deadline.