Quiz 06

Due May 13 at 11:59pm **Points** 10 **Questions** 10
Available May 9 at 11:59am - May 13 at 11:59pm 5 days **Time Limit** 60 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	5 minutes	10 out of 10

Correct answers will be available on May 14 at 12:01am.

Score for this quiz: **10** out of 10
Submitted May 11 at 2:21pm
This attempt took 5 minutes.

Question 1 — 1 / 1 pts

In OpenCL, what is a float16?

- (•) A 16-element SIMD floating point array
- ( ) A 16-bit floating point number.
- ( ) A 16-byte floating point number.
- ( ) A floating point number aligned on a 16-byte boundary.

Question 2 — 1 / 1 pts

An OpenCL ***Device*** is composed of:

- Command Queues
- Processing Elements
- Compute Units
- Platforms

Question 3

1 / 1 pts

An OpenCl **Compute Unit** is composed of:

- Devices
- Streaming Multiprocessors
- Platforms
- Processing Elements

Question 4

1 / 1 pts

What does the Yellow Robot + Grippers picture model?

- Processing Element + Devices
- Processing Element + Compute Units
- Compute Unit + Processing Elements
- Compute Unit + Devices

Question 5

1 / 1 pts

Why does OpenCL use a **Command Queue**?

Note: there are two correct answers here. You must mark both to get full credit.

- [ ] So that you don't need to know what each command does.
- [x] So that you don't have to wait until OpenCL is ready to send it new commands
- [ ] Because this is how the hardware works.
- [x] So that OpenCL can gobble OpenCL commands as fast as it can.

Question 6

1 / 1 pts

In OpenCL, what does **"The Host"** refer to?

- ( ) The networking hardware
- ( ) The OpenCL hardware.
- ( ) A server elsewhere on the Internet
- (•) The hardware on which you are running your main C/C++ program.

Question 7

1 / 1 pts

In OpenCL, what does **"The Device"** refer to:

- A server elsewhere on the Internet
- The networking hardware
- (•) The OpenCL hardware
- The hardware on which you are running your main C/C++ program

Question 8

1 / 1 pts

Where does the OpenCL compiler live?

- On the OpenCL device
- Elsewhere on the Internet
- On the device on which you are running your main program
- (•) In the OpenCL driver

Question 9

1 / 1 pts

What is the relationship between **Global Data Size**, **Work Group Size**, and **Number of Work Groups**?

- Number of Work Groups = (Work Group Size) * (Global Data Size)
- Global Data Size = (Number of Work Groups) ^ 2
- Work Group Size = (Global Data Size) * (Number of Work Groups)

- Global Data Size = (Work Group Size) * (Number of Work Groups)

Question 10

1 / 1 pts

What does the OpenCL function `get_global_id( 0 )` do?

- Tells you where you are in the local dataset
- Tells you what work-group you are in
- Tells you how many work-groups you have
- Tells you where you are in the overall 1D dataset

Quiz Score: **10** out of 10