

EEE4120F 2023 Quiz0

This is a short quiz just to get a sense of how aware you already are of some HPES terms and topics.

*Required

1. What do you think is the difference between a **High Performance Embedded System (HPES)** and a regular **Embedded System (ES)**. Think for a moment and then give a brief written response. [5min] *

2. So you might or might not have heard of (or remember) what Verilog is. Which point below seems most correct? *

Mark only one oval.

- It is a means to check logical expressions
- It is a general-purpose programming language
- It is used in high performance computing to run threads on a processor
- It is a coding language for hardware description
- None of these, engineering has nothing to do with 'verilogs'

3. What is AMD Xilinx Vivado?

Mark only one oval.

- No idea - I would probably delete it from my PC if I found it there
- It is a software tool for analyzing Inter-Species Expressions (like the face your dog makes when he sees your neighbor's cat and then barks like mad).
- It is an application for converting C code into something BASIC
- It is an application used to develop HDL code and programme FPGAs

4. Spatial computing is what? Briefly explain it...

5. Explain the difference between composition and aggregation in UML

6. Is there any difference between a thread and a process? Think how you would explain why this is.

Mark only one oval.

Yes

No

7. Which of these is Amdahl's law used to judge for computation?

Mark only one oval.

Cost between two implementations

Speed between two implementations

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