FPGA Computing Systems :
Background Knowledge & Introductory Materials

Quiz Answers

Week 1 : Reconfigurable Computing Module

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1. Who provided the first definition of reconfigurable computing?

Gerald Estrin
Correct
He provided the first definition in 1960

Katrine Compton

Christophe Bobda

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2. Which can be an unofficial, but still feasible, definition of reconfigurable computing architecture?

A computing architecture composed of multiple GPPs

A computing architecture composed of both a general-purpose processor and some GPUs

A computing architecture composed of both a general-purpose processor and some reconfigurable hardware logic
Correct
This is the correct answer

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3. Which of the following statements are false

Processor application design time is lower than ASIC design time
Correct
This is false

Reconfigurable computing is a trade-off between ASIC and processors

The main advantage is the lack of a standard computing model
Correct
The lack of standard computing model is a disadvantage, since it increases the required design time

ASIC fabrication costs are lower than the costs in reconfigurable computing
Correct
This is false, since ASIC are custom computational components which require a lot of time and expertise to be produced

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4. FPGAs have a program counter.

True

False
Correct
That's correct FPGAs do not have a program counter

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5. FPGAs are semiconductor devices containing:

Programmable interconnects and programmable logic components and, in some cases, other components (e.g. BRAM)
Correct
That's the most complete answer

Programmable logic components
Correct
Correct, but not only!

Programmable interconnects and programmable logic components
Correct
Correct, but not only

Programmable interconnects
Correct
Correct, but not only!
