



FPGA Computing Systems : Background Knowledge & Introductory Materials

Quiz Answers

Week 1 : Runtime Management

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1. What is the meaning of an adaptive computing system?

it is mandatory to be a dynamic reconfigurable FPGA based system

It is the capability of a computing system to adapt one or more of its properties during runtime.

Correct

This is a right answer

It is an hardware - software combination to improve the system performances despite the environment's changes

Correct

it's correct

2. Which one of the following is NOT correct?

A standalone code is usually an application that uses software libraries exporting functions to interface with hardware components dealing with it at a high level of abstraction and it is the best option to manage complex systems

Correct

This is wrong! A standalone code is not the right option when designing a complex system

A standalone code is an acceptable approach for small systems, involving few components and configurations.

The use of an operating system allows more flexibility, since it is possible to implement the software part as one or multiple userspace processes, introducing complex inter-process communication systems and scheduling techniques

The use of an operating system requires that the hardware and software parts must be designed in order to allow the creation of a reconfigurable architecture