

7 Lecture - CS501

Important Mcqs

1. **What is the first step in the design process for the ISA of FALCON-A?**

- a. Selecting the instruction set features
- b. Defining the application domain
- c. Designing the instruction format
- d. Identifying the target audience

Answer: b. Defining the application domain

What is the role of identifying the target audience in the design process for the ISA of FALCON-A?

- a. To ensure that the ISA is easy to use for all users
- b. To ensure that the ISA meets the performance requirements of the target audience
- c. To ensure that the ISA has a broad appeal to all users
- d. To ensure that the ISA is compatible with other processors in the market

Answer: b. To ensure that the ISA meets the performance requirements of the target audience

What is the goal of selecting the instruction set features in the design process for the ISA of FALCON-A?

- a. To include as many features as possible to increase performance
- b. To include only the necessary features to balance performance and simplicity
- c. To make the ISA more compatible with other processors in the market
- d. To make the ISA more appealing to a broad range of users

Answer: b. To include only the necessary features to balance performance and simplicity

What is the significance of designing the instruction format in the design process for the ISA of FALCON-A?

- a. It ensures that the ISA is easy to use for all users
- b. It ensures that the ISA meets the performance requirements of the target audience
- c. It ensures that the ISA is compatible with other processors in the market
- d. It determines how the processor interprets and executes instructions

Answer: d. It determines how the processor interprets and executes instructions

What is the primary goal of the design process for the ISA of FALCON-A?

- a. To maximize performance at all costs
- b. To balance performance and simplicity
- c. To create an ISA that is easy to use for all users
- d. To create an ISA that is compatible with other processors in the market

Answer: b. To balance performance and simplicity

What is the role of the application domain in the design process for the ISA of FALCON-A?

- a. To define the target audience for the processor
- b. To determine the features required in the ISA
- c. To identify the performance requirements of the target audience

d. To ensure that the ISA meets the needs of the application domain

Answer: d. To ensure that the ISA meets the needs of the application domain

What is the significance of balancing performance and simplicity in the design process for the ISA of FALCON-A?

a. It ensures that the processor is easy to use for all users

b. It ensures that the processor meets the performance requirements of the target audience

c. It ensures that the processor is compatible with other processors in the market

d. It ensures that the processor is efficient and cost-effective

Answer: d. It ensures that the processor is efficient and cost-effective

What is the role of the target audience in the design process for the ISA of FALCON-A?

a. To ensure that the processor meets the performance requirements of the target audience

b. To ensure that the processor is easy to use for all users

c. To identify the features required in the ISA

d. To ensure that the processor is compatible with other processors in the market

Answer: a. To ensure that the processor meets the performance requirements of the target audience

What is the significance of including only the necessary instruction set features in the design process for the ISA of FALCON-A?

a. It reduces the cost and complexity of the processor