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Courses » Computer Organization and Architecture

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Unit 4 - Week 3

Course outline

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- Lecture 07 Part 1 - Programming using X86 ISA - Addressing Modes
- Lecture 07 Part 2 - Programming using X86 ISA - Addressing Modes
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Week3 Assignment

Week 3 Assignment

1) The addressing modes involved in the following instruction are
MOV EAX, 0x10

1 point

- Register, Register
- Register , Memory
- Register, Immediate
- Immediate, Memory

Accepted Answers:

Register, Immediate

2) What does the following instruction result in ?
DIV EAX

1 point

- Compiler Error
- Syntax Error
- Divides EAX by 1
- Divides EAX by EAX

Accepted Answers:

Divides EAX by EAX

3) The remainder of the DIV operation is stored in which of the following registers?

1 point

- EAX
- EBX
- ECX
- EDX

Accepted Answers:

EDX

4) Which of the following characterizes the memory in x86 architecture?

1 point

- bit-addressible
- byte-addressible

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- long-addressible
- double-addressible

Accepted Answers:*byte-addressible*

5) Which of the following characterizes the x86 architecture?

1 point

- Simple Instruction Set Architecture
- Reduced Instruction Set Architecture
- Extended Instruction Set Architecture
- Complex Instruction Set Architecture

Accepted Answers:*Complex Instruction Set Architecture*

6) PF, the parity flag checks for which of these?

1 point

- If number of 1's in the bit is even
- If the number of 1's is greater than number of 0's
- If all the bits are 0
- If all the bits are 1

Accepted Answers:*If number of 1's in the bit is even*

7) ADD AL, [0x1000] is a

1 point

- 4-bit instruction
- 8-bit instruction
- 16-bit instruction
- 32-bit instruction

Accepted Answers:*8-bit instruction*

8) Which of the following is the correct definition of accuracy?

1 point

- How is the measured value to the true value?
- How close are results from different experiments?

Accepted Answers:*How is the measured value to the true value?*

9) In 32-bit IEEE 754 floating point format, the exponents are stored in which of the following formats?

1 point

- decimal
- excess-127
- excess-64
- exponent as integer

Accepted Answers:

excess-127

10 What kind of processor is x86?

1 point

- RISC
- CISC
- DISC
- None of the above

Accepted Answers:

CISC

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Funded by

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