Due date: 2021-08-18, 23:59 IST.



NPTEL » Computer architecture and organization

Announcements

About the Course

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Mentor

1 point

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Course outline How does an NPTEL online course work? Week 0 Week 1 Week 2 Lecture 6: Number Representation Lecture 7: Instruction Format and Addressing Modes Lecture 8: CISC and RISC Architecture Lecture 9: MIPS32 Instruction Set Lecture 10: MIPS Programming Examples Lecture 11: SPIM - A MIPS32 Simulator Week 2 Lecture Material SPIM User Guide MIPS Programs Week 2 Practice Problems Quiz: Week 2 : Assignment

Thank you for taking the Week 2: Assignment 2.

Week 2: Assignment 2

Your last recorded submission was on 2021-08-15, 12:18 IST

- 1) Which of the following statement(s) is/are true for radix of a positional number system.
 - a. It represents number of unique digits, used to represent numbers.
 - It represents number of binary digits, used to represent single digit of any number system.
 - . Radix of Hexadecimal number system is 4.
 - d. Radix of Hexadecimal number system is 16.
 - ✓ a.
- □ b.
- $\ \square_{\, C.}$
- ✓ d.
- 2) What will be binary representation of (3.6E)₁₆?
 - a. 0011.0110 1111
 - b. 0011.0110 1110
 - c. 11.0110111
 - d. None of these
- □ a.
- ✓ b.
- □ d.
- ✓ C.

1 point

2	3) What is the largest number that can be represented using 10-bit 2's complement	
Feedback form for Week 2	representation?	
Week 3	511	
Week 4		1 point
DOWNLOAD VIDEOS	Consider the following statement for representing signed numbers using sign magnitude, 1's complement and 2's complement format: (i) Sign of the number can be identified using MSB. (ii) By flipping the sign bit we can obtain the number of its opposite sign. Which of the following is correct? a. Only (i) is true b. Only (ii) is true c. Both (i) and (ii) are true d. Both (i) and (ii) are false	1 point
	 a. b. c. d. Which of the following addressing modes does not require any memory access for fetching the operands? a. Direct Addressing b. Immediate Addressing 	1 point
	c. Register Indirect d. Register Addressing e. None of these a. b. c.	
	□ c. ☑ d. □ e.	

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9)	Which of the following instruction is/are invalid for MIPS32 processor if \$s0 and \$s1 contains address of some variables (say A and B). a. add \$t0, \$t1, 20(\$s0) b. lw \$t0, 40(\$s0) c. add \$t0, \$t0, \$t1	1 point
(d. None of these a. b. c. d.	
10)		1 point
Youn	✓ a. ✓ b. □ c. □ d. may submit any number of times before the due date. The final submission will be considered for grading. bmit Answers	