

<u>Course</u> > <u>Graded Quizzes (Spring 22)</u> > <u>Graded Quiz 02 [Updated] (7th March)</u> > Quiz 2 [Updated] Quiz 2 [Updated] Quiz due Mar 7, 2022 22:30 +06 Completed The First 10 Questions Below Carry 1 Mark Each. **Multiple Choice** 1.0/1.0 point (graded) Which instruction can collect the value from EPC register? mfepc mov move mfc1 mfc0 mtc1 mtc0 Submit You have used 1 of 1 attempt **Multiple Choice** 1.0/1.0 point (graded) "Subtracting a negative number from a negative number will cause an overflow" - The statement is-True False Submit You have used 1 of 1 attempt **Multiple Choice** 1.0/1.0 point (graded) Suppose you have implemented the following pseudocode in Fortran:

int q = 15; //line #1	
int p = 13; //line #2	
x = y + 10; //line #3	
When the line the compiler?	e #3 gets compiled into MIPS, which of the following instructions will be used by
addiu	
addu	
addi	
addui	
✓	
Submit You h	nave used 1 of 1 attempt
	as 12500 instruction count with 2.1 CPI and the clock cycle time is 2s. If the Spec program is 7, then what is the Reference time?
367,500	
91,875	
307,211	
96,482	
Submit You h	nave used 1 of 1 attempt
Checkbox 0.0/1.0 point (graded) Which choice Multiple answers possible	e(s) from below can help in performance improvement of a system?
✓ Using instruc	ctions with low number of clock cycles 🗸
✓ Increasing clo	ock rate of the CPU ✔
Increasing ins	struction count
Decreasing in	nstruction count ✔
×	

Submit You have used 1 of 1 attempt
Answers are displayed within the problem
MCQ 1.0/1.0 point (graded) OS overhead is included in which of the following time measures?
O Idle time
Elapsed time
User CPU Time
O I/O time
Submit You have used 1 of 1 attempt
MCQ 1.0/1.0 point (graded) Performance of CPU can be improved by:
O Increasing clock rate and clock cycle
O Increasing clock rate and execution time
O Decreasing execution time and clock rate
Increasing clock rate and decreasing clock cycle
Submit You have used 1 of 1 attempt
MCQ 0.0/1.0 point (graded) Which of the following is a characteristic of RISC architecture?
☐ It contains pipelining. ✔
Instructions generally take more than 1 clock to execute.
Size and format of instructions varies.
Works well with simpler compiler.
×

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Submit You have used	1 of 1 attempt
Answers are displayed	within the problem
MCQ	
0.0/1.0 point (graded) If we have different	t types of instruction in a program, what will be affected?
Performance of CPU v	will degrade
Overall execution tim	e decreases
Average cycles per in:	struction varies 🗸
None	
×	
Submit You have used	1 of 1 attempt
Answers are displayed	within the problem
MCQ	
1.0/1.0 point (graded) A CPU has 10 clock 15s?	c cycles. What will be the duration of a clock cycle, if time of execution is
150s	
0.667s	
<u> </u>	
1.5s	
~	
Submit You have used	1 of 1 attempt

The following question has 5 parts. Each part carries 1 Marks. You can press the submit button maximum 2 times (Number of attempts: 2)

Numerical Input

5.0/5.0 points (graded)

In the given image, we are multiplying 1100 with 1010(Multiplier) with the optimized multiplication hardware, where the multiplicand is stored in a 4-bit register and the product is stored in a 8-bit register. You need to complete the table and input the values, that are marked in the table, in the given input fields below.

Iteration	Product	Multiplicand
0	Contents of the product register after initialization	1100
1	(a)	
2		
	(b)	
3	(c)	
4	(d)	
	(e)	

What is the value of (a)? Give the answer in 8-bit binary.

00000101

What is the value of (b)? Give the answer in 8-bit binary.

01100010

What is the value of (c)? Give the answer in 8-bit binary.

00110001

What is the value of (d)? Give the answer in 8-bit binary.

11110001

What is the value of (e)? Give the answer in 8-bit binary.

01111000

Submit

You have used 1 of 2 attempts

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