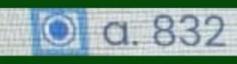
The 9's complement of 16710 equals to

Select one:



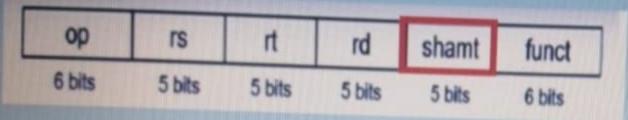
- O b. 233
- O c. 232
 - Od. 732

The fastest data access is provided using _____

Colort non

- a Registers
- b. DRAM's
- C. SRAM'S
- d Caches
 - Clear my choice

Rits 6-10 of an R-format instruction are only used for particular instructions. Which of the following R-format instructions uses those bits?



- a. xor
- O b. sub
- O c. add
- d. sll

Which method of representation has one representation for '0'?

Select one:

- a. Sign Magnitude
- b. 2's complement
- o c. l's complement
- od. None of the mentioned
 - Clear my choice

Which of the following instructionformat pairings is incorrect?

- a. lw- R-format
- b. j J-format
- O c. slt- R-format
- O d. addi- I-format

There are 3 basic instruction formats in the MIPS instruction set architecture. They are:

R	opcode	rs	rt	rd	shamt	funct
1	opcode	rs	rt	immediate		
	opcode		target address			

What aspect of the instruction's machine language encoding distinguishes between these different formats?

- a. The presence or absence of the constant field in the instruction
 - b. The number of register fields in the instruction
- c. Either appending an "i" to the end of a normal instruction or beginning the instruction with a "j"
- d. None of the above

How many bytes does the (MIPS -32) word take up?

- o a. 8 bytes
- b. 4 bytes
- O c. 16 bytes
- od. 1 byte

Which of the following instructions performs the instruction move \$11, \$12?

- o a. add \$t1, \$t2, \$t1
- b. add \$t2, \$zero, \$t1

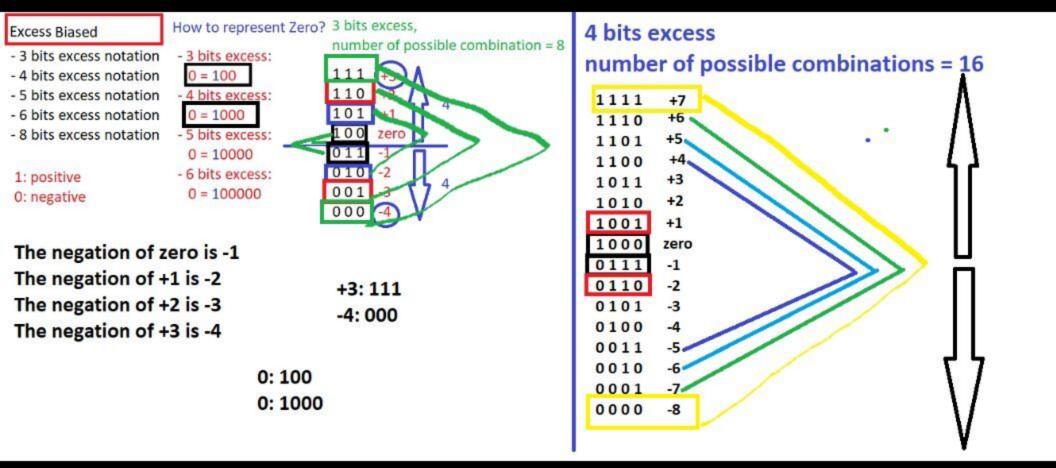
c. add \$t1, \$zero, \$t2

O d. lui \$t1, 0

The complement of any number can be given by a general term

Specify the destination register in the instruction: beq \$t6, \$t7, 24

- a. no destination
- ob. \$t8
- O c. \$t7
- Od. \$t6



The complement of any number can be given by a general term

Question 3

Answer saved

Marked out of 1

* Flag
question

In which mode the operand is stored in the register and this register is present in CPU?

- Variable Mode
- Register mode
- Register indirect mode
- O Immediate mode
 Clear my choice

Previous page

Previous activity
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Jump to...

Which of the following is **not** an I-type instruction?

Select one:

- a. sll \$t1, \$t2, 3
- o b. slti \$t1, \$t2, 5
- oc. bne \$t1, \$t0, Label
- od. addi \$t1, \$t2, 3

In IEEE754 format, the size of the mantissa (fractional part) is _____

Select one i, a. 23 bit

- O b. 8 bit
- O 6 64 bit
- d. 32 bit

Elear Fry chance

When we want to load a register with 32 bits value, the assembler actually needs to perform two MIPS instructions. The first of these two instructions is **lui** (load upper immediate), which takes the upper 16 bits provided and stores them as the upper 16 bits of the register. What is the other command?

- a. add
- b. addi
- O c. and
- d. ori

















Assume the values stored in registers \$s0 is zero and the value stored in \$s1 is 19, what execution of the following instruction?

addi \$s0, \$s1, 11

- 0 11110 in \$s0 and 11110 in \$s1
- 0 in \$s0 and 10011 in \$s1
- 0 10011 in \$s0 and 10011 in \$s1
- 11110 in \$s0 and 10011 in \$s1

Which of the following statements is not correct about Assembly language?

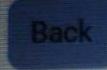
- Explicit manipulation of memory management
- Readable
- Machine-dependent
- Mnemonic names for machine operation
 Clear my choice

revious page

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Jump to...

لماذة تصميم وتنظيم الحاسوب



Question 1

Answer saved

Marked out of 1

F Flag

The performance of a program depends on all of the following except:

- Software system
- Computer
- Programmer
- Algorithm

Clear my choice

Previous activity
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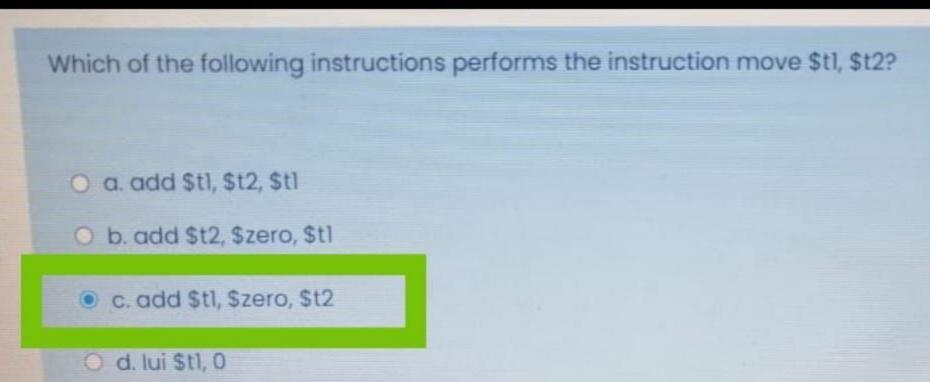
Jump to ...

I-format and J-format instructions both accompdate an immediate value to be specified.

What is the maximum number of bits that can be specified for each instruction format?

- a. 28 for 1, 28 for J
- 6 b. 16 for I, 28 for J
- O c. 20 for I, 26 for J

d. 16 for I, 26 for J



Clear my choice

A 32 bit address generates an address space of _____ locations.

Select one:

ved

it of

- 0 1024
- 0 16,777,216
- 4 gibibytes
 - 2048
 - 241

Which representation is most efficient to perform arithmetic operations on signed numbers in MIPS architecture?

Select one:

Select one:

o a. Sign-magnitude

o b. l's complement

o c. None of the mentioned

d. 2's complement



ion 24 er saved

ed out of

ag stion A 32 bit address generates an address space of _____ locations.

Select one:

- 0 1024
- 0 16,777,216
- 4 gibibytes
- 2048
- 248
 - Clear my choice

Question 17 Answer saved Marked out of F Flag question

When we want to load a register with 32 bits value, the assembler actually needs to perform two MIPS instructions. The first of these two instructions is **lui** (load upper immediate), which takes the upper 16 bits provided and stores them as the upper 16 bits of the register. What is the other command?

- o a ori
- O b. and
- o c. addi
- O d. add

The fastest data access is provided using

Select one:

- O a. DRAM's
- o b. SRAM's
- c. Registers
- Od. Caches

2

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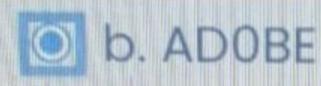
The product of 1101 & 1011 is _____

Select one:

- a. 10001001
- o b. 11101110
- c. 10001111
- d. 10101111

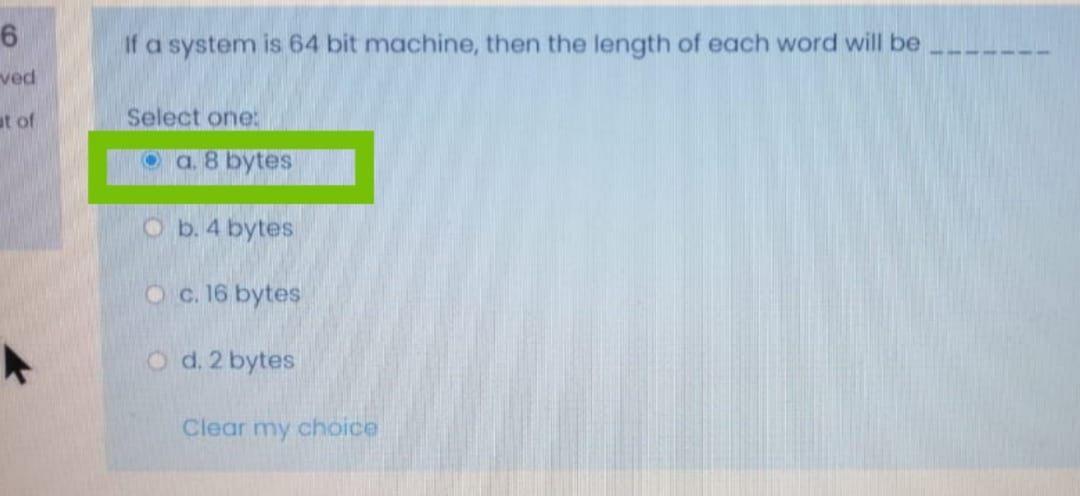
The equivalent hexadecimal not

O a. ACABE



O C. FADED

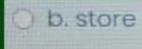
O d. AEOBE



The instruction that reads data from a register and transfers data into memory is:



a. load



#3

In IEEE754 format, the sign bit is followed by string of digits called as _____

Select one:

- o a Exponent
- o b. Significant
- o c. Determinant
- o d. Mantissa

5 aved ut of 1

Which of the following is correct about computer architecture?

- Expresses the realization of architecture.
- It acts as the interface between hardware and software.
- Deals with low-level design issues
- O Involves Physical Components (Circuit design, Adders, Signals, Peripherals)

 Clear my choice

us page

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Jump to...

Which of the following instructionformat pairings is incorrect?

- a. lw- R-format
- O b. j J-format
- c. slt- R-format
- Od. addi-I-format

The 3-bits Excess representation of zero is ____

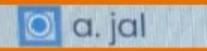
[6] a. 100

D b. 000

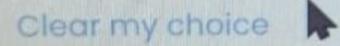
__ c 101

d-III

Which of the following instructions is a J-format instruction?



- O b. bne
- O c. slt
- o d. addi





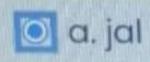
If a system is 64 bit machine, then the length of each word will be

Select one:

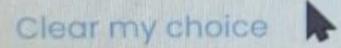
- a. 2 bytes
- O b. 4 bytes
- C. 16 bytes

d. 8 bytes

Which of the following instructions is a J-format instruction?



- O b. bne
- o c. slt
- od. addi





If a system is 64 bit machine, then the length of each word will be

Select one:

- a. 2 bytes
- O b. 4 bytes
- C. 16 bytes
- d. 8 bytes

Which method of representation has one representation for '0'?

Select one:

- a. Sign Magnitude
- b. 2's complement
 - o c. l's complement
 - o d. None of the mentioned

Clear my choice

Let's say we have an Array with 64 integer elements. The address of to following moves the data from Array [60] into the register \$11?

- Iw \$t1, 60(\$t0)
- O IW 60(\$t0), \$t1
- sw \$t1, 60(\$t0)
- sw 60(\$t0), \$t1
 - Clear my choice



Which of the following instructions is a J-format instruction?

- a. jal
 - O b. bne
 - O c. slt
 - O d. addi

Clear my choice

Assuming the content of \$s5 000000000001010, what would be the de

sll \$t2,\$s5,1

- O a. 40
- O b. 10
- c. 20
 - O d. 80

Clear my choice

In IEEE754 format, the sign bit is followed by string of digits called as

Which of the following is not true about Endianness?

a. MIPS is little Endian

- b. Most significant byte starts at the smallest address
- c. Little Endian vs Big Endian

d. Endianness specifies the order of accessing the data

Assume the values stored in registers \$50 is zero and the value stored in \$51 is 19, what execution of the following instruction?

addi \$s0, \$s1, 11

- 0 11110 in \$s0 and 11110 in \$s1
- 0 in \$50 and 10011 in \$51
- 0 10011 in \$s0 and 10011 in \$s1
- 11110 in \$s0 and 10011 in \$s1



- o a. add \$t1, \$t2, \$t1
- b. add \$t2, \$zero, \$t1
- c. add \$t1, \$zero, \$t2
- O d. lui \$t1, 0

Clear my choice

A 32 bit address generates an address space of _____ locations.

Select one:

ved

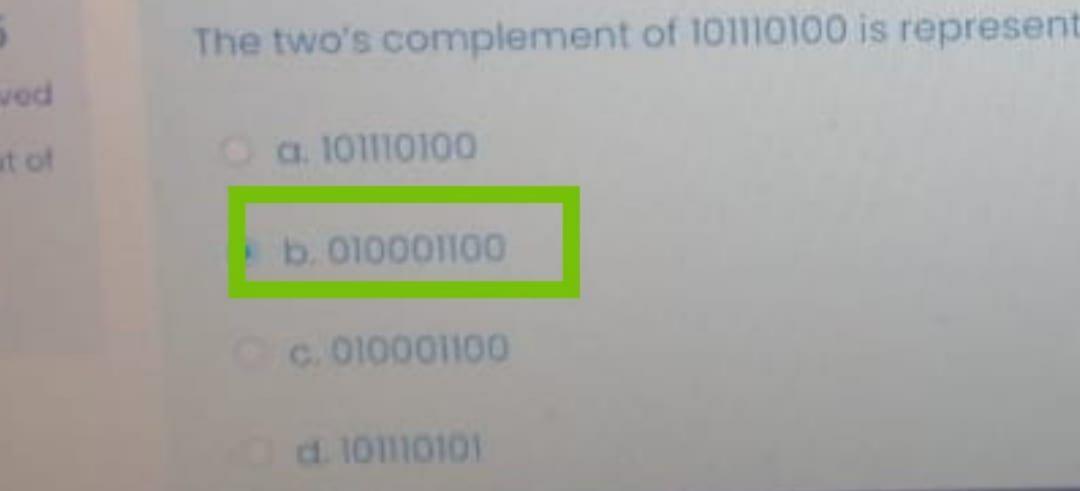
it of

- 0 1024
- 0 16,777,216
- 4 gibibytes
- 2048
 - 241

Which of the following is not an I-type instruction?

Select one:

- a. sll \$t1, \$t2, 3
- O b. slti \$t1, \$t2, 5
- o c. addi \$t1, \$t2, 3
- o d. bne \$t1, \$t0, Label
 - Clear my choice



Which method of representation has one representation for '0'?

Select one:

- a. Sign Magnitude
- O b. 2's complement
- o c. 1's complement
 - O d. None of the mentioned

Clear my choice



Which representation is most efficient to perform arithmetic operations architecture?

Select one:

- a. 2's complement
 - O b. I's complement
 - c. None of the mentioned