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Question: 3. [6 points] Write a program in assembly language that perfor…

3.   [6 points] Write a program in assembly language that performs the calculation **0xFEED**
AND   **0xBABE** and leaves the result in a register of your choice.   Use immediate
operands for the data. Try to make this look like a complete source file, including
assembler directives.

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Expert Answer

anonymous answered this
3,029 answers

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```
• data
• word
K:  0x FEED
J :  0xBABE

• text
    la   $t0, K  # load address of K
    la   $t1, J  # load address of J
    lw   $s0, 0($t0) # load K content
                     into $s0
    lw   $s1, 0($t1) # load J content
                     into $s1
    and  $s0, $s0, $s1 # anding $s0
                     # & $s1 &final
                     # result is in $
• end
```

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Q: 12. 18 points] The following diagram shows main storage starting at address 0x1000. Fill in the cells starting at that address to show how the following null-terminated string would be represented in memory: "MIPS chip". Use your MIPS reference card to look up the ASCII codes for the letters. Use hexadecimal pattern names to fill each cell 0x1000 0x1001 0x1002 0x1003 0x1004 0x100...

A: See answer   100% (2 ratings)

Q: In this assignment you will explore assembly and machine languages. You already know that when a high-level language program is compiled a machine language program gets generated that can be directly executed. What does such a machine language program look like? How can an .exe file be viewed and modified? As a first step you will first write a simple C program to add two integers...

A: See answer   100% (2 ratings)
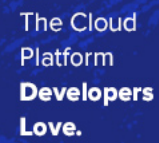
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