

Project 1 Executuion Platforms

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January 2025

1 Introduction

This is the program listing for the RISC-V assembly code example with the hex instructions and their binary field breakdowns. By using a website "<https://projectf.io/posts/riscv-cheat-sheet/>" [1]

Table 1: Code listing with hex instructions and binary fields

| Hex instruction | Binary fields | Instruction |
|-----------------|---|--|
| 0x000050893 | fnc7 rs1 fnc3 rd op1 000000000000 ; 01010 ; 000 ; 10001 ; 0010011 | addi a8 a17 0 - error in format |
| 0x00068513 | fnc7 rs1 fnc3 rd op1 000000000000 ; 01101 ; 000 ; 01010 ; 0010011 | addi a13 a8 0 - error in format |
| 0x04088063 | imm rs2 rs1 fnc3 imm op1 0000010 ; 00000 ; 10001 ; 000 ; 00000 ; 1100011 | beq a0 a17 0xA0 - error in jmp calc j1 |
| 0x04058263 | imm rs2 rs1 fnc3 imm op1 0000010 ; 00000 ; 01011 ; 000 ; 00100 ; 1100011 | beq a0 a1 0x22 - error in jmp calc |
| 0x04060063 | imm rs1 fnc3 rd op1 000001000000 ; 01100 ; 000 ; 00000 ; 0000011 | addi a0, a12, 0x64 |
| 0x04d05063 | imm rs2 rs1 fnc3 imm op1 0000010011010000; 101; 00000; 1100011 | bge , a0 |
| 0x00088793 | 00000000000010001000011110010011 | - |
| 0x00269713 | 000000000001001101001011100010011 | - |
| 0x00e888b3 | 00000000111010001000100010110011 | - |
| 0x0007a703 | 000000000000001111010011100000011 | - |
| 0x0005a803 | 000000000000001011010100000000011 | - |
| 0x01070733 | 00000001000001110000011100110011 | - |
| 0x00e62023 | 00000000111001100010000000100011 | - |
| 0x00478793 | 00000000010001111000011110010011 | - |
| 0x00458593 | 00000000010001011000010110010011 | - |
| 0x00460613 | 00000000010001100000011000010011 | - |
| 0xff1792e3 | 1111111100010111001001011100011 | - |
| 0x00008067 | 00000000000000001000000001100111 | - |
| 0xffff00513 | 1111111111100000000010100010011 | - |
| 0x00008067 | 00000000000000001000000001100111 | - |
| 0xffff00513 | 1111111111100000000010100010011 | - |
| 0x00008067 | 00000000000000001000000001100111 | - |

References

- [1] projectf.io. riscv-cheat-sheet, 2024. Accessed: December 18, 2025.