|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 地址 | 汇编程序 | 运行结果 | op | rs | rt | Rd/immediate |
| 0x00000000 | addi $1, $0, 8 | $1 = 8 | 000010 | 00000 | 00001 | 00000 00000 001000 |
| 0x00000004 | ori $2, $1,2 | $2 = 10 | 010010 | 00001 | 00010 | 00000 00000 000010 |
| 0x00000008 | and $3,$2,$1 | $3 = 8 | 010001 | 00010 | 00001 | 00011 00000 000000 |
| 0x0000000C | or $4,$3,$1 | $4 = 8 | 010000 | 00011 | 00001 | 00100 00000 000000 |
| 0x00000010 | sub $5, $2,$3 | $5 = 2 | 000001 | 00010 | 00011 | 00101 00000 000000 |
| 0x00000014 | sll $5 $5,2 | $5=8/$5=32 | 011000 | 00000 | 00101 | 00101 00010 000000 |
| 0x00000018 | beq $5,$1,-2 | 转14 | 110100 | 00101 | 00001 | 11111 11111 111110 |
| 0x0000001C | jal 0x0000040 |  | 111010 | 00000 | 00000 | 00000 00000 010000 |
| 0x00000020 | slt $8,$6,$1 | $8=0 | 100110 | 00110 | 00001 | 01000 00000 000000 |
| 0x00000024 | addi $14,$0,-1 | $14=-1 | 000010 | 00000 | 01110 | 11111 11111 111111 |
| 0x00000028 | slt $9,$8,$14 | $9=0 | 100110 | 01000 | 01110 | 01001 00000 000000 |
| 0x0000002C | sltu $10,$9,$2 | $10=1 | 100111 | 01001 | 00010 | 01010 00000 000000 |
| 0x00000030 | **sltu $11, $10,$10** | $11=0 | 100111 | 01010 | **01010** | 01011 00000 000000 |
| 0x00000034 | add $14,$14,$10 | $14=0/$14=1 | 000000 | 01110 | 01010 | 01110 00000 000000 |
| 0x00000038 | bne $14,$10,-2 | 转34 | 110101 | 01110 | 01010 | 11111 11111 111110 |
| 0x0000003C | j 0x000004c |  | 111000 | 00000 | 00000 | 00000 00000 010011 |
| 0x00000040 | sw $2,2($1) | **将$2寄存器的数存到data的40-43** | 110000 | 00001 | 00010 | 00000 00000 000010 |
| 0x00000044 | lw $6,2($1) | $6=10 | 110001 | 00001 | 00110 | 00000 00000 000010 |
| 0x00000048 | Jr $31 |  | 111001 | 11111 | 00000 | 00000 00000 000000 |
| 0x0000004C | halt | 停机 | 111111 | 00000 | 00000 | 00000 00000 000000 |
|  |  |  |  |  |  |  |