|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **地址** | **汇编程序** | **指令代码** | | | | | |
| **op（6）** | **rs(5)** | **rt(5)** | **rd(5)/immediate (16)** | **16进制数代码** | |
| **0x00000000** | ori $1,$0,7 | **010000** | **00000** | **00001** | **0000 0000 0000 0111** | **=** | 40010007 |
| **0x00000004** | addi $2,$0,9 | 000001 | 00000 | 00010 | 0000 0000 0000 1001 | **=** | 04020009 |
| **0x00000008** | add $3,$1,$2 | 000000 | 00001 | 00010 | 0001 1000 0000 0000 | **=** | 00221800 |
| **0x0000000C** | sub $4,$2,$1 | 000010 | 00010 | 00001 | 0010 0000 0000 0000 | **=** | 08412000 |
| **0x00000010** | or $5,$2,$4 | 010010 | 00010 | 00100 | 0010 1000 0000 0000 | **=** | 48442800 |
| **0x00000014** | beq $1,$4,5 | 110000 | 00001 | 00100 | 0000 0000 0000 0101 | **=** | C0240005 |
| **0x00000018** | sw $1, 3($2) | 100110 | 00010 | 00001 | 0000 0000 0000 0011 | **=** | 98410003 |
| **0x0000001C** | and $6,$4,$5 | 010001 | 00100 | 00101 | 0011 0000 0000 0000 | **=** | 44853000 |
| **0x00000020** | move $7,$1 | 100000 | 00001 | 00000 | 0011 1000 0000 0000 | **=** | 80203800 |
| **0x00000024** | lw $4,3($2) | 100111 | 00010 | 00100 | 0000 0000 0000 0011 | **=** | 9c440003 |
| **0x00000028** | beq $4,$7,-6 | 110000 | 00100 | 00111 | 1111 1111 1111 1010 | **=** | C087fffa |
| **0x0000002C** | addi $2,$3,1 | 000001 | 00011 | 00010 | 0000 0000 0000 0001 | **=** | 04620001 |
| **0x00000030** | halt | 111111 | 00000 | 00000 | 0000000000000000 | **=** | Fc000000 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 07 | 09(11) | 10 | 02(07) | 0b | 02 | 07 |

|  |  |
| --- | --- |
| **地址** | **汇编程序** |
| **00(pc)** | **01(ALUres)** | **ALUinput** | **register** |
| **0x00000000** | ori $1,$0,7 | **00 04** | **07 00** | **00 07** | **00 00** |
| **0x00000004** | addi $2,$0,9 | 04 08 | 09 00 | 00 09 | 00 00 |
| **0x00000008** | add $3,$1,$2 | 08 0c | 10 00 | 07 09 | 07 09 |
| **0x0000000C** | sub $4,$2,$1 | 0c 10 | 02 00 | 09 07 | 09 07 |
| **0x00000010** | or $5,$2,$4 | 10 14 | 0b 00 | 09 02 | 09 02 |
| **0x00000014** | beq $1,$4,5 | 14 18 | 05 00 | 07 02 | 07 02 |
|  |  | 14 2c | 00 07 | 07 07 | 07 07 |
| **0x00000018** | sw $1, 3($2) | 18 1c | 0c 00 | 09 03 | 09 07 |
| **0x0000001C** | and $6,$4,$5 | 1c 20 | 02 00 | 02 0b | 02 0b |
| **0x00000020** | move $7,$1 | 20 24 | 07 00 | 07 00 | 07 00 |
| **0x00000024** | lw $4,3($2) | 24 28 | 0c 07 | 09 03 | 09 02 |
| **0x00000028** | beq $4,$7,-6 | 28 14 | 00 07 | 07 07 | 07 07 |
| **0x0000002C** | addi $2,$3,1 | 2c 30 | 11 07 | 10 01 | 10 09 |
| **0x00000030** | halt |  |  |  |  |
|  |  |  |  |  |  |