**关于测试多周期CPU的简单方法**

**（特别说明：本表每个同学都必须建立，检查实验时，必须提供！）**

1、测试程序段

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** | addiu $1,$0,5 |  |  |  |  | **=** |  |
| **0x00000004** | addiu $2,$0,-8 |  |  |  |  |  |  |
| **0x00000008** | add $1,$1,$2 |  |  |  |  |  |  |
| **0x0000000C** | sub $1,$1,$2 |  |  |  |  |  |  |
| **0x00000010** | andi $1,$1,9 |  |  |  |  |  |  |
| **0x00000014** | and $1,$1,$2 |  |  |  |  |  |  |
| **0x00000018** | ori $1,$1,5 |  |  |  |  |  |  |
| **0x0000001C** | addiu $3,$0,3 |  |  |  |  |  |  |
| **0x00000020** | or $1,$1,$3 |  |  |  |  |  |  |
| **0x00000024** | sll $1,$1,1 |  |  |  |  |  |  |
| **0x00000028** | slti $3,$2,-7 |  |  |  |  |  |  |
| **0x0000002C** | slti $4,$2,-8 |  |  |  |  |  |  |
| **0x00000030** | addiu $1,$1,-14 |  |  |  |  |  |  |
| **0x00000034** | addiu $2,$2,8 |  |  |  |  |  |  |
| **0x00000038** | addiu $3,$3,-1 |  |  |  |  |  |  |
| **0x0000003C** | addiu $4,$4,-0 |  |  |  |  |  |  |
| **0x00000040** | or $5,$1,$2 |  |  |  |  |  |  |
| **0x00000044** | or $5,$5,$3 |  |  |  |  |  |  |
| **0x00000048** | or $5,$5,$4 |  |  |  |  |  |  |
| **0x0000004C** | addiu $0,$0,-2 |  |  |  |  |  |  |
| **0x00000050** | beq $5,$0,1 |  |  |  |  |  |  |
| **0x00000054** | halt |  |  |  |  |  |  |
| **0x00000058** | addiu $1,$0,0 |  |  |  |  |  |  |
| **0x0000005C** | addiu $2,$0,-3 |  |  |  |  |  |  |
| **0x00000060** | sw $2,0($1) |  |  |  |  |  |  |
| **0x00000064** | lw $1,0($1) |  |  |  |  |  |  |
| **0x00000068** | bne $1,$2,3 |  |  |  |  |  |  |
| **0x0000006C** | bltz $1,1 |  |  |  |  |  |  |
| **0x00000070** | halt |  |  |  |  |  |  |
| **0x00000074** | j 0x1f |  |  |  |  |  |  |
| **0x00000078** | halt |  |  |  |  |  |  |
| **0x0000007C** | jal 0x31 |  |  |  |  |  |  |
| **0x00000080** | addi $1,$0,32767 |  |  |  |  |  |  |
| **0x00000084** | sll $1,$1,16 |  |  |  |  |  |  |
| **0x00000088** | addi $1,$1,32767 |  |  |  |  |  |  |
| **0x0000008C** | addi $1,$1,32767 |  |  |  |  |  |  |
| **0x00000090** | addi $2,$1,0 |  |  |  |  |  |  |
| **0x00000094** | addi $2,$2,2 |  |  |  |  |  |  |
| **0x00000098** | slt $3,$2,$1 |  |  |  |  |  |  |
| **0x0000009C** | addi $1,$0,1 |  |  |  |  |  |  |
| **0x000000A0** | addi $2,$0,2 |  |  |  |  |  |  |
| **0x000000A4** | addi $3,$0,3 |  |  |  |  |  |  |
| **0x000000A8** | movn $1,$3,$0 |  |  |  |  |  |  |
| **0x000000AC** | movn $2,$3,$2 |  |  |  |  |  |  |
| **0x000000B0** | addiu $1,$0,0 |  |  |  |  |  |  |
| **0x000000B4** | sll $2,$2,16 |  |  |  |  |  |  |
| **0x000000B8** | sw $2,8($1) |  |  |  |  |  |  |
| **0x000000BC** | lhu $3,10($1) |  |  |  |  |  |  |
| **0x000000C0** | halt |  |  |  |  |  |  |
| **0x000000C4** | jr $31 |  |  |  |  |  |  |