附录3：调试程序

1. 存取数据

|  |  |  |
| --- | --- | --- |
| 地址 | 汇编格式 | 16进制格式 |
| 00 | LD R0,06 | 10 |
| 01 | 06 |
| 02 | ST R0,07 | 20 |
| 03 | 07 |
| 04 | HALT | 30 |
| 05 | 留空 | 00 |
| 06 | 56 | 38 |
| 07 | 0 | 00 |

表3-1 存取数据

1. 简单加法

|  |  |  |
| --- | --- | --- |
| 地址 | 汇编格式 | 16进制格式 |
| 00 | LD R0,09 | 10 |
| 01 | 09 |
| 02 | LD R1,0A | 11 |
| 03 | 0A |
| 04 | ADD R1,R0 | 54 |
| 05 | ST R0,0B | 20 |
| 06 | 0B |
| 07 | HALT | 30 |
| 08 | 留空 | 00 |
| 09 | 56 | 38 |
| 0A | 45 | 2D |
| 0B | 0 | 00 |

表3-2 简单加法

1. 溢出状态加法

|  |  |  |
| --- | --- | --- |
| 地址 | 汇编格式 | 16进制格式 |
| 00 | LD R0,10 | 10 |
| 01 | 10 |
| 02 | LD R1,11 | 11 |
| 03 | 11 |
| 04 | ADD R1,R0 | 54 |
| 05 | ST R0,12 | 20 |
| 06 | 12 |
| 07 | JV 2 | 44 |
| 08 | 02 |
| 09 | HALT | 30 |
| 0A | LD R0,13 | 10 |
| 0B | 13 |
| 0C | ST R0,14 | 20 |
| 0D | 14 |
| 0E | HALT | 30 |
| 0F | 留空 | 00 |
| 10 | 101 | 65 |
| 11 | 100 | 64 |
| 12 | 0 | 00 |
| 13 | -1 | FF |
| 14 | 0 | 00 |

表3-3 溢出异常加法

1. 乘法

|  |  |  |
| --- | --- | --- |
| 地址 | 汇编格式 | 16进制格式 |
| 00 | LD R0,1B | 10 |
| 01 | 1B |
| 02 | LD R1,1C | 11 |
| 03 | 1C |
| 04 | INC+ R0 | A0 |
| 05 | JC 4 | 40 |
| 06 | 04 |
| 07 | INC R2 | 72 |
| 08 | JMP -5 | 60 |
| 09 | FB |
| 0A | INC+ R2 | A2 |
| 0B | JC 9 | 40 |
| 0C | 09 |
| 0D | ADD R1,R3 | 57 |
| 0E | JC 3 | 40 |
| 0F | 03 |
| 10 | JMP -7 | 60 |
| 11 | F9 |
| 12 | INC R0 | 70 |
| 13 | JMP -4 | 60 |
| 14 | FC |
| 15 | ST R3,1D | 23 |
| 16 | 1D |
| 17 | ST R0,1E | 20 |
| 18 | 1E |
| 19 | HALT | 30 |
| 1A | 留空 | 00 |
| 1B | 54 | 36 |
| 1C | 99 | 63 |
| 1D | 0 | 00 |
| 1E | 0 | 00 |

表3-4 乘法