|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| clk输入 | ROM输入 | ROM输出 | MROM输入 | MROM输出 |
| 1 | **1** | **0** | **0b0001** | **0x1100** |
| 2 | **3** | **1** | **0b0000** | **0x120** |
| 3 | **4** | **3** | **0b0000** | **0x1100** |
| 4 | **5** | **4** | **0b0001** | **0x120** |

**实验一的两个表格（上：微程序；下;硬布线）**

|  |  |  |  |
| --- | --- | --- | --- |
| clk输入 | ROM输入 | ROM输出 | 状态机Mx |
| 1 | **1** | **0** | **M1** |
| 2 | **3** | **1** | **M2** |
| 3 | **4** | **3** | **M1** |
| 4 | **5** | **4** | **M1** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **clk** | **ROM输入** | **ROM输出** | **MROM输入** | **MROM输出** | **存储器Dram** | **寄存器堆regs（Da，Db）** | **输入端口IN** | **输出端口OUT** |
| **1** | **0x30** | **1** | **0b0000** | **0b0011** | **0** | **00** | **01001100** |  |
| **2** | **4** | **2** | **0b0011** | **0b0000** | **0** | **44** | **00000011** |  |
| **3** | **0x34** |  | **0b0000** | **0b0011** | **0** | **04** | **00000011** |  |
| **4** | **3** | **3** | **0b0100** | **0b0000** | **0** | **34** |  | **00000011** |
| **5** | **4C** | **4** | **0b0000** | **0b0100** | **0** | **04** |  | **00000011** |
| **6** | **0x74** | **5** | **0b0101** | **0b0000** | **0** | **04** | **01001100** |  |
| **7** | **3** | **6** | **0b0000** | **0b0101** | **0** | **04** | **01001100** |  |
| **8** | **0x28** | **7** | **0b0111** | **0b0000** | **4** | **34** |  | **00000011** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **clk** | **ROM输入** | **ROM输出** | **MROM输入** | **MROM输出** | **寄存器堆regs** | **输出端口OUT** |
| **1** | **0x30** | **1** | **0b0011** | **0b0000** | **00** | **00000001** |
| **2** | **1** | **2** | **0b0000** | **0b0011** | **11** | **00110100** |
| **3** | **0x34** | **3** | **0b0011** | **0b0000** | **01** | **10000000** |
| **4** | **2** | **4** | **0b0000** | **0b0011** | **21** | **00110101** |
| **5** | **0x38** | **5** | **0b1100** | **0b0000** | **01** | **00110110** |
| **6** | **0x80** | **6** | **0b0000** | **0b0011** | **0x80,1** | **00110111** |
| **7** | **1** | **7** | **0b0000** | **0b0000** | **12** | **01000000** |

**5**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **clk** | **ROM输入** | **ROM输出** | **MROM输入** | **MROM输出** | **寄存器堆regs** | **输出端口OUT** |
| **1** | **0x30** | **1** | **0b0011** | **0b0000** | **00** | **00000001** |
| **2** | **1** | **2** | **0b0000** | **0b0011** | **11** | **00110100** |
| **3** | **0x34** | **3** | **0b0011** | **0b0000** | **01** | **10000000** |
| **4** | **2** | **4** | **0b0000** | **0b0011** | **21** | **00110101** |
| **5** | **0x38** | **5** | **0b0011** | **0b0000** | **01** | **00110110** |
| **6** | **0x80** | **6** | **0b0000** | **0b0011** | **0x80,1** | **00110111** |
| **7** | **1** | **7** | **0b0000** | **0b0000** | **12** | **01000000** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **clk** | **中断信号int** | **断电寄存器BP\_pc，BP\_Flag** | **中断返回信号ret** | **ALU\_Flag寄存器** |
| **1** | **0** | **00** | **1** | **2** |
| **2** | **1** | **10** | **0** | **0** |
| **3** | **0** | **20** | **1** | **2** |
| **4** | **0** | **30** | **1** | **0** |
| **5** | **1** | **40** | **0** | **2** |
| **6** | **0** | **50** | **1** | **5** |
| **7** | **1** | **60** | **0** | **2** |