|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 当前状态 | | 指令\控制信号 | | PCWre | | ALUSrcA | | ALUSrcB | | DBDataSrc | | RegWre | | WrRegDSrc | | InsMemRW | | RD | | WR | | IRWre | | ExtSel | | PCSrc | | RegDst | | ALUOp |
| sIF | | X | | 0 | | X | | X | | X | | 0 | | X | | 1 | | X | | 1 | | 1 | | X | | X | | X | | X |
| sID | | J | | 0 | | X | | X | | X | | 0 | | X | | X | | X | | 1 | | 0 | | X | | 11 | | X | | X |
| Jal | | 0 | | X | | X | | X | | 1 | | 0 | | X | | X | | 1 | | 0 | | X | | 11 | | 00 | | X |
| Jr | | 0 | | X | | X | | X | | 0 | | X | | X | | X | | 1 | | 0 | | X | | 10 | | X | | X |
| halt | | 0 | | X | | X | | X | | 0 | | X | | X | | X | | 1 | | 0 | | X | | X | | X | | X |
| EAL | | Add | | 0 | | 0 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 000 |
| sub | | 0 | | 0 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 001 |
| Addi | | 0 | | 0 | | 1 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | 1 | | X | | X | | 000 |
| Or | | 0 | | 0 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 101 |
| And | | 0 | | 0 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 110 |
| Ori | | 0 | | 0 | | 1 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | 0 | | X | | X | | 101 |
| Sll | | 0 | | 1 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 100 |
| Slt | | 0 | | 0 | | 0 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | X | | X | | X | | 011 |
| Slti | | 0 | | 0 | | 1 | | 0 | | 1 | | 1 | | X | | X | | 1 | | 0 | | 1 | | X | | X | | 011 |
| ELS | | Sw | | 0 | | 0 | | 1 | | 0 | | 0 | | X | | X | | X | | 0 | | 0 | | 1 | | X | | X | | 000 |
| Lw | | 0 | | 0 | | 1 | | 1 | | 1 | | 1 | | X | | 0 | | 1 | | 0 | | 1 | | X | | X | | 000 |
| EBR00 | | Beq | | 1 | | 0 | | 0 | | X | | 0 | | X | | X | | X | | 1 | | 0 | | 1 | | Eq:01  Ne：00 | | X | | 001 |
| bne | | 1 | | 0 | | 0 | | X | | 0 | | X | | X | | X | | 1 | | 0 | | 1 | | Eq:00  Ne:01 | | X | | 001 |
| Bgtz | | 1 | | 0 | | 0 | | X | | 0 | | X | | X | | X | | 1 | | 0 | | 1 | | Gt:01  Le:00 | | X | | 001 |
| MLD | Lw | | 0 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| MST | sw | | 0 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | | J | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | Jr | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | Jal | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | halt | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |