|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Instruction** | **opcode**  **[15-12]** | **[11-9]** | **[8-6]** | **[5-3]** | **[2-0]** |
| **ADD** | 0000 | DEST | SRC1 | XX | SRC2 |
| **ADDI** | 0001 | DEST | SRC1 | IMMEDIATE | |
| **AND** | 0010 | DEST | SRC1 | XX | SRC2 |
| **ANDI** | 0011 | DEST | SRC1 | IMMEDIATE | |
| **CMP** | 0100 | XXX | OP1 | XXX | OP2 |
| **JE** | 0101 | ADDRESS12 | | | |
| **JA** | 0110 | ADDRESS12 | | | |
| **JB** | 0111 | ADDRESS12 | | | |
| **JBE** | 1000 | ADDRESS12 | | | |
| **JAE** | 1001 | ADDRESS12 | | | |
| **LD** | 1010 | DEST | ADDRESS9 | | |
| **ST** | 1011 | SRC | ADDRESS9 | | |
| **JMP** | 1100 | ADDRESS12 | | | |