|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Instruction** | **[17:14](Opcode)** | **[13:10]** | **[9:6]** | **[5:4]** | **[3:0]** |
| ADD | 0000 | DR | SR1 | 00(unused) | SR2 |
| AND | 0001 | DR | SR1 | 00(unused) | SR2 |
| NAND | 0010 | DR | SR1 | 00(unused) | SR2 |
| NOR | 0011 | DR | SR1 | 00(unused) | SR2 |
| ADDI | 0100 | DR | SR1 | Imm6 | |
| ANDI | 0101 | DR | SR1 | Imm6 | |
| LD | 0110 | DR | Address10 | | |
| ST | 0111 | SR | Address10 | | |
| CMP | 1000 | OP1 | OP2 | 000000(unused) | |
| JUMP | 1001 | Address10 | | | 0000(unused) |
| JE | 1010 | Address10 | | | 0000(unused) |
| JA | 1011 | Address10 | | | 0000(unused) |
| JB | 1100 | Address10 | | | 0000(unused) |
| JAE | 1101 | Address10 | | | 0000(unused) |
| JBE | 1110 | Address10 | | | 0000(unused) |

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