|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **inst** | **alu**  **srca** | **alus**  **rcb** | **DBDa**  **taSrc** | **Reg**  **Wre** | **reg**  **rt[1…0]** | **alu**  **src** | **wm**  **em** | **Ext**  **Sel** | **PCSr**  **c[1..0]** | **ALUO**  **p[3..0]** |
| add | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0000** |
| sub | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0001** |
| addu | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0000** |
| subu | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0001** |
| and | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0100** |
| or | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0011** |
| xor | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0111** |
| nor | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **1000** |
| sll | **1** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0010** |
| srl | **1** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **1011** |
| sra | **1** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **1010** |
| sllv | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0010** |
| srlv | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **1011** |
| srav | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **1010** |
| slt | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0110** |
| sltu | **0** | **0** | **X(0)** | **1** | **01** | **0** | **0** | **X(0)** | **X(00)** | **0101** |
| addiu | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **1** | **X(00)** | **0000** |
| addi | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **0** | **X(00)** | **0000** |
| andi | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **0** | **X(00)** | **0100** |
| ori | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **0** | **X(00)** | **0011** |
| xori | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **0** | **X(00)** | **0111** |
| lui | **X(0)** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **X(0)** | **X(00)** | **1001** |
| slti | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **1** | **X(00)** | **0110** |
| sltiu | **0** | **1** | **X(0)** | **1** | **00** | **0** | **0** | **0** | **X(00)** | **0101** |
| sw | **0** | **1** | **0** | **1** | **00** | **0** | **1** | **1** | **X(00)** | **0000** |
| lw | **0** | **1** | **1** | **1** | **00** | **0** | **0** | **1** | **X(00)** | **0000** |
| beq | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **1** | **01** | **0001** |
| bne | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **1** | **01** | **0001** |
| bltz | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **1** | **01** | **0000** |
| j | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **X(0)** | **11** | **0000** |
| jal | **0** | **0** | **0** | **1** | **10** | **1** | **0** | **X(0)** | **11** | **0000** |
| jr | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **X(0)** | **10** | **0000** |
| halt | **0** | **0** | **0** | **0** | **00** | **0** | **0** | **X(0)** | **00** | **0000** |