



| instruction | 10030 | :Fun | DUDUT ALVA | 1: valB | putput NEW FUN. |
|-----------------|-------|------|-------------------------|-----------------|--------------------------------------|
| irnoul imm, rA | 0000 | b0 | VAI L | 0 (32-bit) | 0000 |
| removi rA,D(rB) | 0001 | | ymic | ٥ | 0.00 |
| st ra, colors | 0011 | | V-11 C | 0 | Ø 000 |
| OF1 CA, CB | 0100 | 42 | VAIA | VAIB | ifunzfn |
| JMP Calley | 1010 | | VAIC | 0 | :fon=fn |
| de calley | 6110 | Fn | VALC | 0 | ; fun = Fn |
| halt | 0111 | | vall | D | 0000 |
| | | | | | \downarrow |
| | | VAL | C : t : 1000 + 00 | 10+ | : tm/fm it icoze = 0100 + 0101 + 011 |
| | | ٥ | 011 + 0101 + 0110 + 01 | 1 | O otherwise |
| | | V* | NA if icode = 0001 + 01 | oo only unis if | icalc = 0100 |
| | | | | Ophernise | |
| | | | | | |

| instruction | 16346 | 1,40 | dat E output | ds+ M output | Src A out? | srulb output |
|------------------|-------|------|------------------|-------------------|-----------------------|---|
| | | | 1:r4 , 0: 1111/F | 1: rA , 0: 1111/f | 1: rA, 0: 1111/F | 1:rA, 0: na/f |
| irmoul :mm, rA | 0000 | 0000 | 0000 | 1111 | 1111 | 11.1 |
| removi rA, D(rB) | 0001 | 0000 | 0000 | 1111 | 0000 | 1111 |
| 14 rA, (2447) | 0010 | 0000 | 0000 | 0000 | 1 1 1 1 | 4111 |
| st ra, coder) | 0011 | 0000 | 1111 | 1011 | 0000 | (3.3.) |
| OP1 -A, FB | 0100 | Fn | 1111 | 1111 | 0000 | 0000 |
| Jmp Ladder) | 0101 | 0000 | 1111 | ., , , , , | 1111 | 1111 |
| Jz (addr) | 0110 | Fn. | (111) | 1111 | 1,11 | 111 |
| halt | 0111 | 0000 | (11) | 1111 | 1111 | 1 , 1 ! |
| | | | | | booo if icale | = 0001 + 0011 + 0100, Oat/III otherwise |
| | | | V | V DOOD : Ficale = | 0010, 0.0/1111 othern | |
| | | | | | | |

Orf/IIII otherwise

0000 if icole = 0000 + 0001 + 0010

| instruction | icole | ifun | cnd | Output New PC |
|------------------|-------|------|-----|----------------|
| irmul imm, cA | 0000 | 0000 | × | ValP |
| removi rA, D(rB) | 0001 | 0000 | × | valP |
| IL rA, Kadder | 0010 | 0000 | × | VAIP |
| st rA, Kaddr) | 0011 | 0000 | × | ValP |
| OPI rA, rB | 0100 | 42 | * | valP |
| Jmp Knober | 0101 | 0000 | × | VAIP |
| 12 (mar) | 0 110 | Fn | 0 | Val C Val P |
| halt | 0111 | 0000 | × | VAIP |

vare if icode = 0110

Otherwise Vale