

Instruction Format

Sunday, August 15, 2021 4:55 PM

• operations:

- ✓ • add: R - 0, rs, rt, rd, 0, 1 I.

op	rs	rt	imm
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 - ✓ • addi: I - 1, rs, rt, imm
 - ✓ • sub: R - 0, rs, rt, rd, 0, 2 R.

op	rs	rt	rd	sh	f
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 - ✓ • subi: I - 2, rs, rt, imm
 - ✓ • multiply: R - 0, rs, rt, rd, 0, 3 J.

op	address
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 - ✓ • multiplyi: I - 3, rs, rt, imm
 - ✓ • divide: R - 0, rs, rt, rd, 0, 4
 - ✓ • dividei: I - 4, rs, rt, imm
- } rt and rd only receive high
- ✓ • and: R - 0, rs, rt, rd, 0, 5
 - ✓ • andi: I - 5, rs, rt, imm
 - ✓ • or: R - 0, rs, rt, rd, 0, 6
 - ✓ • ori: I - 6, rs, rt, imm
 - ✓ • shift right: R - 0, rs, rt, rd, shamt, 7
 - ✓ • shift left: R - 0, rs, rt, rd, shamt, 8
 - ✓ • load word: I - 9, rs, rt, imm
 - ✓ • store word: I - 10, rs, rt, imm
 - ✓ • move lb: I - 11, 0, rt, 0
 - ✓ • beq: I - 12, rs, rt, address (+PC)
 - ✓ • bne: I - 13, rs, rt, address (+PC)
 - ✓ • slt: R - 0, rs, rt, rd, 0, 14
 - ✓ • slti: I - 14, rs, rt, imm
 - ✓ • jump reg: R - 15, rs, 0, 0, 0, 0
 - ✓ • jump: J - 16, address: PC
 - ✓ • jump and link: J - 17, address