

Instruction	Format	op	rs	rt	rd	shamt	funct	address
add	R	0	reg	reg	reg	0	32 _{ten}	n.a.
sub (subtract)	R	0	reg	reg	reg	0	34 _{ten}	n.a.
add immediate	I	8 _{ten}	reg	reg	n.a.	n.a.	n.a.	constant
lw (load word)	I	35 _{ten}	reg	reg	n.a.	n.a.	n.a.	address
sw (store word)	I	43 _{ten}	reg	reg	n.a.	n.a.	n.a.	address

FIGURE 2.5 MIPS instruction encoding. In the table above, “reg” means a register number between 0 and 31, “address” means a 16-bit address, and “n.a.” (not applicable) means this field does not appear in this format. Note that add and sub instructions have the same value in the op field; the hardware uses the funct field to decide the variant of the operation: add (32) or subtract (34).