

| Instruction | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 | C18 | C19 | C20 |
|-------------------|----|----|----|-----|---------|---------|---------|---------|---------|---------|------|---------|---------|------|-----|---------|---------|-----|---------|-----|
| ADDI \$1, \$0, 0 | IF | ID | EX | MEM | WB(\$1) | | | | | | | | | | | | | | | |
| ADDI \$2, \$0, 1 | | IF | ID | EX | MEM | WB(\$2) | | | | | | | | | | | | | | |
| ADDI \$3, \$0, 0 | | | IF | ID | EX | MEM | WB(\$3) | | | | | | | | | | | | | |
| ADDI \$4, \$0, 4 | | | | IF | ID | EX | MEM | WB(\$4) | | | | | | | | | | | | |
| SW \$1, 0(\$3) | | | | | NOOP | IF | ID(\$3) | EX | MEM | WB | | | | | | | | | | |
| SW \$2, 0(\$4) | | | | | | | IF | ID(\$4) | EX | MEM | WB | | | | | | | | | |
| LW \$1, 0(\$3) | | | | | | | | IF | ID(\$3) | EX | MEM | WB(\$1) | | | | | | | | |
| LW \$2, 0(\$4) | | | | | | | | | IF | ID(\$4) | EX | MEM | WB(\$2) | | | | | | | |
| ADD \$5, \$1, \$2 | | | | | | | | | | NOOP | NOOP | IF | ID(\$2) | EX | MEM | WB(\$5) | | | | |
| ADD \$1, \$0, \$2 | | | | | | | | | | | | | IF | ID | EX | MEM | WB(\$1) | | | |
| ADD \$2, \$0, \$5 | | | | | | | | | | | | | | NOOP | IF | MEM | EX | MEM | WB(\$2) | |
| J 8 | | | | | | | | | | | | | | | | IF | ID | EX | MEM | WB |