The following opcodes are used for addition:

- ADDI Add Signed Integer
- ADDU Add Unsigned Integer
- ADDF Add Floating Point

# ADDI — Add Signed Integer {#ADDI}

## === "Algorithm"

```
L2 = L2 + <signed_imm>
    L2 = L2 + <reg_val>
    L2 = L2 + <const>
```

#### === "Example"

```
```linenums="1" hl_lines="1 3 5 7"
; imm +ve
   ADDI   1
; imm -ve
   ADDI   -123
; reg val
   ADDI   val(QT)
; const
   ADDI   SOME_CONST_VAL
```

# ADDU — Add Unsigned Integer (#ADDU)

```
| `Opcode` | #18
| `Type` | *Arithmetic*
| `Operand Type` | Unsigned 64-bit value
| `Destination` | L3 (implicit) |
|-----
```

### === "Algorithm"

```
L3 = L3 + <unsigned_imm>
L3 = L3 + <reg_val>
L3 = L3 + <const>
```

### === "Example"

```
```linenums="1" hl_lines="1 3 5"
; imm +ve
    ADDU    1
; reg val
    ADDU    val(QT)
; const
    ADDU    SOME_CONST_VAL
```

### ### ADDF — \_Add Float value\_ {#ADDF}

#### === "Properties"

```
=== "Algorithm"

L1 = L1 + <float>
L1 = L1 + <reg_val>
L1 = L1 + <const>

=== "Example"

; imm float
    ADDF    3.14
; reg val
    ADDF    val(QT)
; const
    ADDF    SOME_CONST_VAL
```