The following opcodes are used for addition:

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

# ADDI — Add Signed Integer {#ADDI}

```
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
```

#### === "Properties"

## ADDU — Add Unsigned Integer {#ADDU}

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

#### === "ADDU Example"

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

#### === "ADDU Properties"

## ADDF — *Add Float value* {#ADDF}

Use ADDF to add a floating point value to whatever value is stored within the L1 register. If the register L1 is not set, then initial value of L1 is assumed to be 0, and not a garbage value.

#### === "ADDF Algorithm"

```
L1 = L1 + <float>
L1 = L1 + <reg_val>
```

```
L1 = L1 + <const>
```

## === "ADDF Example"

```
```linenums="1" hl_lines="1 3 5"
; imm float
   ADDF   3.14
; reg val
   ADDF   val(QT)
; const
   ADDF   SOME_CONST_VAL
```