The following opcodes are used for addition:

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

ADDI — Add Signed Integer {#ADDI}

Use ADDI to add an integer value to whatever value is stored within the L2 register. If the register L2 is not set, then initial value of L2 is assumed to be 0, and not a garbage value.

=== "ADDI Algorithm"

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

=== "ADDI 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}

Use ADDU to add an integer value to whatever value is stored within the L3 register. If the register L3 is not set, then initial value of L3 is assumed to be 0, and not a garbage value.

=== "ADDU Algorithm"

```
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
```

## ADDF — *Add Float value* {#ADDF}

Use

```
| `Operand Type` | 64-bit float value
| `Destination` | L1 (implicit)
|-----|
```

## === "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
```