The following opcodes are used for **addition**:

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

ADDI — Add Signed Integer {#ADDI}

???+ info "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.
```md title="Properties"
 |-----|
 | Property | Value
 |-----|
 | `Operand Type` | Signed 64-bit integer |
 | `Destination` | L2 (implicit)
 |-----
<div class="result" markdown>
=== "ADDI Algorithm"
 L2 = L2 + < signed_imm>
 L2 = L2 + < req_val >
 L2 = L2 + < const >
=== "ADDI Example"
   ```linenums="1" hl_lines="1 3 5 7"
   ; imm +ve
     ADDI
   ; imm -ve
     ADDI -123
   ; reg val
     ADDI val(QT)
   ; const
     ADDI SOME_CONST_VAL
</div>
```

ADDU — Add Unsigned Integer {#ADDU}

Use ADDU to add an unsigned 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 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
```