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

```
; imm float

ADDF 3.14
; reg val

ADDF val(QT)
; const

ADDF SOME_CONST_VAL
```