This section describes the available arithmetic opcodes/mnemonics and their corresponding operations.

All arithmetic instructions accept **only a single operand**.

The other operand, as well as the destination, is taken from one of the Link registers:

```
L0, L1, L2, L3.
```



See: Register Reference – Link Registers

## **32** Addition

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

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

??? abstract "ADDI — Add Signed Integer"

```
=== "Properties"
   | Property | Value
    |-----|
   | **Operand Type**| Signed 64-bit integer | | **Destination** | `12` (implicit)
   | **Destination** | `L2` (implicit)
=== "Algorithm"
   . . .
   L2 = L2 + <signed_imm>
   L2 = L2 + \langle reg_val \rangle
   L2 = L2 + < const >
=== "Example"
       ADDI 1
      ADDI -123
      ADDI val(QT)
      ADDI SOME_CONST_VAL
```

## ??? abstract "ADDF — Add Float value"

```
ADDF SOME_CONST_VAL
```

ADDU — Add Unsigned Integer

...

ADDF — Add Floating Point

## | Opcode | Code | Operand Count | Opernads | Description |

|SUBI||

|MULI||

|DIVI||

|MODI||

|ADDU||

|SUBU||

| MULU ||

|DIVU||

|MODU||

|ADDF||

|SUBF||

| MULF ||

|DIVF||