

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

- SUBI — Subtract Signed Integer
- SUBU — Subtract Unsigned Integer
- SUBF — Subtract Floating Point

[SUBI] — *Sub Signed Integer* {#SUBI}

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

=== "SUBI Example"

```
```linenums="1" hl_lines="1 3 5"
; imm +ve
SUBI    1
; imm -ve
SUBI    -123
; reg val
SUBI    val(QT)
; const
SUBI    SOME_CONST_VAL
```
```

=== "SUBI Properties"

| Opcode | Operand Type          | Destination   |
|--------|-----------------------|---------------|
| 14     | Signed 64-bit integer | L2 (implicit) |

Identified as mnemonic [#SUBI](#SUBI), SUBI is used to

??? abstract "SUBU — *Sub Unsigned Integer*"

=== "Properties"

| Property   | Value      |
|------------|------------|
| **Opcode** | 19         |
| **Type**   | Arithmetic |

|  |                         |                       |  |
|--|-------------------------|-----------------------|--|
|  | <b>**Operand Type**</b> | Unsigned 64-bit value |  |
|  | <b>**Destination**</b>  | `L3` (implicit)       |  |

=== "Algorithm"

```

...
L3 = L3 - <unsigned_imm>
L3 = L3 - <reg_val>
L3 = L3 - <const>
...

```

=== "Example"

```

...
; imm +ve
    SUBU    1
; reg val
    SUBU    val(QT)
; const
    SUBU    SOME_CONST_VAL
...

```

??? abstract "SUBF — *Sub Float value*"

=== "Properties"

|  |                         |  |                    |  |
|--|-------------------------|--|--------------------|--|
|  | Property                |  | Value              |  |
|  | -----                   |  | -----              |  |
|  | <b>**Opcode**</b>       |  | 24                 |  |
|  | <b>**Type**</b>         |  | Arithmetic         |  |
|  | <b>**Operand Type**</b> |  | 64-bit float value |  |
|  | <b>**Destination**</b>  |  | `L1` (implicit)    |  |

=== "Algorithm"

```

...
L1 = L1 - <float>
L1 = L1 - <reg_val>
L1 = L1 - <const>
...

```

=== "Example"

```

...
; imm float
    SUBF    3.14
; reg val
    SUBF    val(QT)
; const
    SUBF    SOME_CONST_VAL
...

```

