Version: 0.5.0

Total Instructions Supported: 73

Operand Size: Up to 2 operands, each of 64-bits



Operand Types

Instructions in SASM accept a variety of operand types:

??? example "Immediate Values"

```
0, 1, 2, 3
```

??? example "Constants"

```
M, N, O, P
```

??? example "Registers"

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

Register Dereferencing

SASM registers are identified by unique IDs. Each register can be accessed either as a reference or as a value using compile-time functions.

```
ref(L1) ; reference to register L1
val(L1) ; value stored in register L1
```

These are **compile-time functions** that tell the assembler how to interpret operands.

Related References

- Compile-time Functions
- Register Reference

INSTRUCTIONS NOT DOCUMENTED:

```
INST_DONOP,
INST_INVOK,
INST_RETVL,
INST_PUSHR,
INST_SPOPR,
INST_SHUTS,
INST_SETR,
INST_GETR,
INST_CALL,
INST_LOOP,
INST_PUSH,
INST_SPOP,
INST_SWAP,
INST_JMPU,
INST_JMPC,
INST_ANDB,
INST_NOTB,
INST_COPY,
INST_DUPS,
INST_RET,
INST_NOT,
INST_EQI,
INST_GEI,
INST_GTI,
INST_LEI,
INST_LTI,
INST_NEI,
INST_EQU,
INST_GEU,
INST_GTU,
INST_LEU,
INST_LTU,
INST_NEU,
INST_EQF,
INST_GEF,
INST_GTF,
INST_LEF,
INST_LTF,
INST_NEF,
INST_ORB,
INST_XOR,
INST_SHR,
INST_SHL,
INST_I2F,
INST_U2F,
INST_F2I,
INST_F2U,
INST_READ1U,
INST_READ2U,
INST_READ4U,
```

