



LINT (64-bit integers)

Description

An operand of data type LINT (Long INT) has a length of 64 bits and consists of two components: a sign and a numerical value in the two's complement. The signal states of bits 0 to 62 represent the number value. The signal state of bit 63 represents the sign. The sign may assume "0" for the positive, or "1" for the negative signal state.

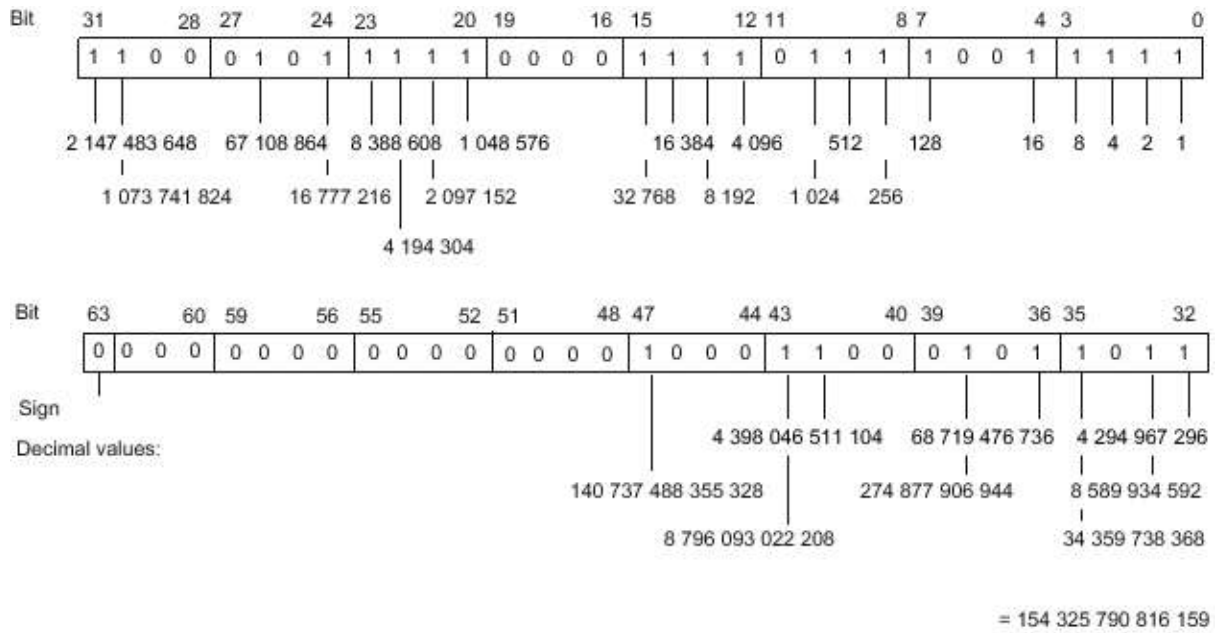
An operand of data type LINT occupies eight BYTE in the memory.

The following table shows the properties of data type LINT:

Length (bits)	Format	Value range	Examples of value input
64	Signed integers (decimal system)	-9_223_372_036_854_775_808 to +9_223_372_036_854_775_807	<ul style="list-style-type: none"> • +154_325_790_816_159 • LINT#+154_325_790_816_159 • LINT#10#+154_325_790_816_159
	Binary numbers (only positive)	2#0 to 2#0111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111	<ul style="list-style-type: none"> • 2#0000_0000_0000_0000_1000_1100_0101_1011_1100_0101_1111_0000_1111_0111_1001_1111 • LINT#2#0000_0000_0000_0000_1000_1100_0101_1011_1100_0101_1111_0000_1111_0111_1001_1111 • LINT#2#10
	Octal numbers (only positive)	8#0 to 8#7_7777_7777_7777_7777_7777	<ul style="list-style-type: none"> • 8#4305_5705_7417_3637 • LINT#8#4305_5705_7417_3637
	Hexadecimal numbers (only positive)	16#0 to 16#7FFF_FFFF_FFFF_FFFF	<ul style="list-style-type: none"> • 16#0000_8C5B_C5F0_F79F • LINT#16#0000_8C5B_C5F0_F79F

Example

The following figure shows the integer +154325790816159 as a binary number:



See also

- [Overview of the valid data types](#)
- [Overview of data type conversion \(S7-1500\)](#)
- [Basics of constants](#)
- [Implicit conversions \(S7-1500\)](#)
- [Explicit conversions \(S7-1500\)](#)
- [Data type conversion for S7-1200 \(S7-1200\)](#)