

Internal Data Types

Internal data types

Data types, used in the D2000 System, are listed in the following table.

Data type	Range
LongInteger	64-bit Integer, i.e. -9 223 372 036 854 775 808 x 9 223 372 036 854 775 807 Note: till version 21.0.70 LongInteger was only 32-bit, i.e. -2 147 483 648 x 2 147 483 647
LongReal	0, 2.3x10 ⁻³⁰⁸ x 1.7x10 ³⁰⁸
Time	1.1.1972 - 31.12.2099. Time data accuracy in the D2000 System is 1 ms (millisecond).
Text	Text strings with variable lengths are limited to 100 000 characters. The texts are internally encoded in UTF-8 .

Range of database types:

-1.0x10³⁸ x 1.0x10³⁸

This range implies the following restrictions relating to:

- **configuration database** - the maximum size of real numbers used as limits in the configuration of [eval tags](#), [I/O tags](#), [historical values](#), etc.
- **archive database** - the maximum size of real data that can be stored in a historical value archive

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