

Internal Data Types

Internal data types

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

Data type	Range
LongInteger	-2147483648 x 2147483647
LongReal	0, 2.3×10^{-308} x 1.7×10^{308}
Time	1.1.1972 - 31.12.2099. Time data accuracy in D2000 system is more then 1 μ s (microsecond).
Text	Text strings with floating length are limited to 10 000 characters. The texts are internally encoded in UTF-8 .

Range of database types:

-1.0×10^{38} x 1.0×10^{38}

This range implies the following restrictions relating to:

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



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