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, $2.3x10^{-308}$ |x| $1.7x10^{308}$
Time	1.1.1972 - 31.12.2099. Time data accuracy in D2000 system is more then 1 µs (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:

$-1.0x10^{38}$ x $1.0x10^{38}$

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

> **Related pages:**
>
> DODM - dynamic object data model