

FreeBASIC standard data types



| | <i>Data type</i> | <i>Value range</i> | | <i>Size</i> |
|------------------------|---|----------------------------|----------------------------------|--------------|
| <i>Integers</i> | BYTE | -128 | 127 | 8 bits |
| | UBYTE | 0 | 255 | 8 bits |
| | SHORT | -32'768 | 32'767 | 16 bits |
| | USHORT | 0 | 65365 | 16 bits |
| | INTEGER [%] | -2'147'483'648 | 2'147'483'647 | 32 bits |
| | UINTEGER | 0 | 4'294'967'295 | 32 bits |
| | LONG [&] (same as INTEGER) | -2'147'483'648 | 2'147'483'647 | 32 bits |
| | LONGINT | -9'223'372'036'854'775'808 | 9'223'372'036'854'775'807 | 64 bits |
| | ULONGINT | 0 | 18'446'744'073'709'551'615 | 64 bits |
| <i>Floating points</i> | SINGLE [!] | 1.1E-38 | 3.43E+38 (6 digits after comma) | 32 bits |
| | DOUBLE [#] | 2.2E-308 | 1.7E+308 (15 digits after comma) | 64 bits |
| <i>Strings</i> | STRING [\$] | 0 Bytes | 2 Gigabytes | 8 bits/char |
| | ZSTRING (null terminated string) | 0 Bytes | 2 Gigabytes | 8 bits/char |
| | WSTRING (wide-chars string)) | 0 Bytes | 2 Gigabytes | 16 bits/char |

Defining variables:

DIM var [xx TO yy] AS type

Examples:

DIM Counter AS SHORT
DIM MyArray (1 TO 300) AS STRING