

float

*digits10** (9)
max exponent

32 bits



6
38

double

*digits10** (17)
max exponent

64 bits



15
308

long double

*digits10** (21)
max exponent

80 bits



18
4932

float128

*digits10** (36)
max exponent

128 bits



33
4932

* *digits10* is the number of decimal digits guaranteed to survive
max_digits10 is the number of decimal digits needed to guarantee correct

text → float → text round-trip

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