

## @double obsession@ c float vs. double precision Stack Overflow What is the difference between float and double? Stack.

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Original URL: <https://tools.orientwatchusa.com/double-obsession.pdf>

The 53 bits of doubles give about 16 digits of precision. The 24 bits of float s give about 7 digits of precision Dec 31 2021 I ve read about the difference between double precision and single precision. However in most cases float and double seem to be interchangeable i.e

using one or the other does not seem to affect Oct 20 2017 From what I have read a value of data type double has an approximate precision of 15 decimal places

However when I use a number whose decimal representation repeats such as 1.0 7.0 I find that Format %lf in printf was not supported in old pre C99 versions of C language which created superficial inconsistency between format specifiers for double in printf and scanf 494 A Double is not an Integer so the cast won't work

Note the difference between the Double class and the double primitive

Also note that a Double is a Number so it has the method intValue which you can use to get the value as a primitive int Jun 19 2012 A double which is usually implemented with IEEE 754 will be accurate to between 15 and 17 decimal digits

Anything past that can't be trusted even if you can make the compiler display it doubled = double num / denom But is there another way to get the correct double result? I don't like casting primitives who knows what may happen Apr 22 2015 Possible Duplicate: long double vs double I am unable to understand the difference between long double and double in C and C++

Can anyone help? The term double precision is something of a misnomer because the precision is not really double. The word double derives from the fact that a double precision number uses twice as many bits as a regular floating point number

For example if a single precision number requires 32 bits its double precision counterpart will be 64 bits long Jul 2 2009 A double has a much higher precision due to its difference in size. If the numbers you are using will commonly exceed the value of a float then use a double

Several other people have mentioned performance issues. That would be exactly last on my list of considerations. Correctness should be your 1 consideration.

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