@double teamed and creamed 3@ c float vs. double precision Stack Overflow What is the difference between float and double? Stack.

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The 53 bits ofdoubles 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 betweendoubleprecisionandsingle precision. However in most cases floatand doubleseem to be interchangeable i.e

using one or the other does not seem to affec Oct 20 2017 From what I have read a value of data typedoublehas 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 tha Format %lf in printf was not supported in old pre C99 versions of C language which created superficial inconsistency between format specifiers fordoublein printfandscanf 494 ADoubleis not an Integer so the cast won t work

Note the difference between theDoubleclassandthedoubleprimitive. Also note that aDoubleis a Number so it has the method intValue which you can use to get the value as a primitive int Jun 19 2012 Adoublewhich is usually implemented with IEEE 754 will be accurate to between 15and17 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 correctdoubleresult? I don t like casting primitives who knows what may happen Apr 22 2015 Possible Duplicate longdoublevsdoubleI am unable to understand the difference between between longdouble and doublein CandC++

Can anyone help? The termdoubleprecision is something of a misnomer because the precision is not reallydouble. The worddoublederives from the fact that adouble precision number uses twice as many bits as a regular floating point number

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

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

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