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Subject: Re: FP humor

Posted by [mirek](#) on Thu, 05 Aug 2021 13:45:20 GMT

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dolik.rce wrote on Thu, 05 August 2021 15:41Hi Mirek,

mirek wrote on Thu, 05 August 2021 14:47....and I was thinking that the lowest possible double is 1e-308...

You made me do some research and learn something new again :)

To save others the trouble: 1e-308 is smallest normalized value, denormalized values can be around 4.94066e-324. And (not surprisingly) the C++ standard thought about it:

[https://en.cppreference.com/w/cpp/types/numeric\\_limits/denorm\\_min](https://en.cppreference.com/w/cpp/types/numeric_limits/denorm_min)

Best regards,  
Honza

Exactly.

But another interesting issue but perhaps not so suprising fact is that if you multiply variable by 0.6 many many times, it eventually reaches the minimal representable value and then stays at it because of rounding rules...