

Re: problem assigning double as defaultvalue

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.atl/2004-04/0641.html>

From: Alexander Nickolov (*agnickolov_at_mvps.org*)

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It's more like ignorance on you part really... This behavior is by design – floating point arithmetics is imprecise. You should never compare floating point numbers directly (especially the results of computations). Have you studied interval arithmetics? What about computational methods? You should have studied about error accumulation... Anyway, the point is, you should compare two floating point numbers by subtracting them and comparing the absolute of the difference against your precision threshold. If it is under the threshold, the numbers are the same, otherwise they differ.

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"Sascha Herpers" <formefromnews@brainpowered.de> wrote in message news:c6bavj\$a8mkg\$1@ID-144102.news.uni-berlin.de...
> > Looks like it gets stored as float somewhere along the line, either in
> > the TLB or in MIDL internal structures. Or, MIDL has problem accurately
> > parsing floating point literals. You see, double gives you precision to
> > about 15 decimal digits, and float provides only 7-8. The number you get
> > from default value is accurate to 7 decimal digits.
> I see. That's probably the reason why casting it to double like this:
> defaultvalue((double) 0.00001)
> gave a totally different result. MIDL seems to somehow misinterpret the
> constant...
>
> Oh well...just another thing I will mark as "don't worry about it, you
> can't change it anyways" kind of thing... :(
>
> Thanks Igor.
> Sash