Subject: Refining IsNull(double)
Posted by mirek on Fri, 27 Aug 2021 07:12:17 GMT
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I am once again revisiting this issue. I decided that putting DOUBLE_NULL_LIM somewhere at 1e-307 is amateurish as we can simply define

constexpr double DOUBLE_NULL = -std::numeric_limits<double>::infinity();

Now another thing that was already changed in the past is that NANs are now considered Null.

However, there is one issue I am not 100% sure about: what about positive infinity? Should we consider it Null or not?

There two inf counter-examples: exp(10000) probably rather should not be Null. But 1/0.0 probably rather should.

Well, for now I am going with inf is Null (because it has simpler test, std::abs(x) < inf...), but I am open for counterarguments...

Mirek