
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, $\text{std::abs}(x) < \text{inf}...$), but I am open for counterarguments...

Mirek
