

Proposal for C2Y

WG14 N3286

Title: Floating-point exceptions for macro replacements

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Proposal category: Technical

Reference: Base document: N3220

There has been a question on whether the various NAN and INFINITY macros are allowed to raise floating-point exceptions. The following change attempts to address this by making it explicit that they are not allowed to do so (as intended).

Proposed changes:

After 7.1.2 #7, insert the paragraph

The evaluation of the replacement for an object-like macro described in this clause or Annexes F, Annex G, Annex H, or Annex K shall not raise a floating-point exception*(footnote).

*footnote) As with other evaluations, a floating-point exception could still be raised in the context of an expression that uses that macro replacement.

Questions:

Is the footnote needed/wanted? If not, it can be removed.