Proposal for C23
WG14 N2671

Title: negative values
Author, affiliation: C FP group
Date: 2021-01-19
Proposal category: Editorial
Reference: N2596

Floating-point values can be classified as positive (> 0), negative (< 0), zero (= 0), or NaN. Other uses of “negative” can be confusing. For examples, the value –0 has a negative sign and a NaN value might have a bit representation with a negative sign bit, but neither is a negative (<0) value.

The suggested change below clarifies the meaning of a negative value as being a value that compares less than zero.

Suggested change:

After 5.2.4.2.2 #5, add the paragraph:

[5a] A value is negative if and only if it compares less than 0. Thus, negative zeros and NaNs are not negative values.