

WG14 N2332

C Floating Point Study Group Teleconference

January 24, 2019

8 AM PST / 11 PM EST / 4 PM UTC

Conference ID: 82968194

Toll-free Dial-in number: 1-888-426-6840

Other (International) Dial In Numbers:

<https://www.teleconference.att.com/servlet/glbAccess?process=1&accessCode=82968194&accessNumber=2158616239#C3>

Wiki: <http://wiki.edg.com/twiki/bin/login/CFP/WebHome>

Draft Agenda

Meeting logistics

Note taker, mail out notes - Rajan

Introduction of attendees

Approval of agenda

Notes from 2018-11-28 meeting

Posted on CFP wiki

Carry-over action items

Ian: See if there is an incompatibility between C and C++ for constants being evaluated to a wider format (Ex. FLT_EVAL_METHOD affects constants in C++, and wider return values).

Jim: Update the binding table in parts 1 and 2 to handle the new IEEE-754:2018 functions when published.

David: Check the min/max C specification to ensure it matches what IEEE has.

David: Check the augmented* C function specifications to ensure they match what IEEE has.

All: totalorder* differ for NaN payloads: Note that we don't have approval to move up to 754 201x yet. Revisit after we move up to the 754 draft.

Fred: Ensure that the items for P4_CR_for_rootn.pdf match IEEE.

Action items from 2018-11-28 meeting

Rajan: See what FLT_EVAL_METHOD does with respect to constants in C++ in his implementations.
- Overridden by the next item.

Ian: Find the C++ standard reference and macro name for their handling of floating point literals.

Jim: Let the WG14 editors know that we are waiting for the Part 1 integrated draft before putting in Part 2.

Fred: Provide words for a macro for printf n-char-sequence maximum length that the implementations have to define.

Jim: Provide the NaN payload specification editorial updates (positive signed floating point integers) to the WG14 editors.

Study group logistics

Next meeting dates: Wednesday, February 27?

IEEE 754 revision

C++ liaison

C2x integration

Part 1

Part 2

Part 3

Part 4ab

Part 5abcd

Action item details

C++ standard reference and macro name for their handling of floating point literals.

Macro for printf n-char-sequence maximum length that the implementations have to define.

NaN payload specification editorial updates (positive signed floating point integers).

Other issues

Optional features in C. WG14 email thread "optional features for IEC 60559 integration".

WG14 papers N2319-N2323 by Tydeman. See (SC22WG14.16023) New documents on the WG 14 website.

Others?

Activities

Review activities in progress