WG14 N2305

C Floating Point Study Group Teleconference

October 24, 2018
8 AM PDT / 11 PM EDT / 3 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 2018-09-25 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) - Keep open.
    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.

Action items from 2018-09-25 meeting
    All: Consider the fact that C doesn't support the SNaN sequence that IEEE does. Can have strtod take it as input.
    Rajan: Draft a paper on macro vs function (pointer vs arguments) causing signalling asking for recommendations from WG14 or ask if it is a problem for anyone.
    Jim: Fix the sqrt and rootn identity conflicts with IEEE.
    Fred: Ensure pown matches IEEE for the identity conflicts.

Study group logistics
Next meeting date: Tuesday, November 27?

WG14 meeting

IEEE 754 revision

C++ liaison

Action item details

Min/max C specification matches IEEE?

Augmented* C function specifications match IEEE?

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.

Consider the fact that C doesn't support the SNaN sequence that IEEE does. Can have strtod take it as input.
See Jim's 10/9 email "[Cfp-interest] AI about C support for "snan" character sequences"
and Mike's responses

Paper on macro vs function (pointer vs arguments) causing signalling asking for recommendations from WG14 or ask if it is a problem for anyone.

Fix the sqrt and rootn identity conflicts with IEEE.
http://wiki.edg.com/pub/CFP/WebHome/P4_CR_for_rootn.pdf

Ensure pown matches IEEE for the identity conflicts.

C2x integration

Other issues?

Activities
Review activities in progress

Deferred issues
C standard use of "floating" vs "floating-point"