C Floating Point Study Group Teleconference

July 25, 2018
8 AM PDT / 11 PM EDT

Conference ID: 82968194
Toll-free Dial-in number: 1-888-426-6840
Other (International) Dial In Numbers:
https://www.teleconference.att.com/servlet/glAccess?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 2018-06-21 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.

Action items from 2018-06-21 meeting
    Jim: Remove screen-share information from the agenda.
    Jim: Missing line numbers for part 2 (cfp2x-20180612.pdf)
    Jim: Specification for inexact: Make the editorial change as given in the modified agenda with links.
    Fred: Fix the wording for CR21 to specify odd significand.
    Jim: C support for 754-201x: Say as per current IEEE draft and add in the N document numbers for 9.5 and 9.6 additions.
    Jim: Submit the augmented arithmetic and min/max spec for 754:201x binding proposals to WG14 after removing change marks.
    Jim: Create a CR for changing "not infinite" to "finite" as per the description for remainder (18661-1, F.10.7.2).
    Jim: Create a paper/proposal for the loosening of the totalorder* specifications to match 754-
Fred: Recheck 'Functions and infinity' issues with 754 draft 238.
Jim: Create a CR to change CFP to say for Annex F of C that pow(+/0,-inf) has no exception (i.e. Remove the latitude to raise div-by-zero).
Jim: Create a CR to change the reduction operations description from should->shall

**Study group logistics**
Next meeting date: Wednesday, August 22?

**IEEE 754 revision**

**C++ liaison**

**Action item details**

Wording for CR21 to specify odd significand.

C support for 754-201x. N document numbers for 9.5 and 9.6 additions.

Min/max C specification matches IEEE?

Augmented* C function specifications match IEEE?

CR for changing "not infinite" to "finite" as per the description for remainder (18661-1, F.10.7.2).

Loosening of the totalorder* specifications in 754-201x.

'Functions and infinity' issues with 754 draft 238.

CR to change CFP to say for Annex F of C that pow(+/0,-inf) has no exception (i.e. Remove the latitude to raise div-by-zero).

CR to change the reduction operations description from should->shall

Other issues?

**C2x integration**

**Activities**
Review activities in progress

**Deferred issues**
C standard use of “floating” vs “floating-point”