C Floating Point Study Group Teleconference

April 10, 2018
9 AM PDT / 12 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/glbAccess?process=1&accessCode=82968194&accessNumber=2158616239#C3
Screen sharing: https://apps.na.collabserv.com/meetings/join?id=1950-7849, Password: cfeisdygk
  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 2018-03-13 meeting
   Posted on CFP wiki

Carry-over action items
   David: Look into the IEEE binding differences to see if they are real issues (from Fred's email on 2018/02/18).
   Jim: Update the binding table in parts 1 and 2 to handle the new IEEE-754:2018 functions when published. - Keep open.
   Jim: Re-update activities list.

Action items from 2018-03-13 meeting
   Jim: Create a DR against part 1 for updating C footnote 232 as per emails on 2018/02/22.
   Jim: Obsolescing DECIMAL_DIG
(http://wiki.edg.com/pub/CFP/WebHome/changes_for_obsolescing_DECIMAL_DIG-20180306.pdf):
Change 1: Change "decimal" to "decimal character sequence" throughout the document to avoid confusion with DFP. Also need to qualify it with the rounding mode.
   Jim: Obsolescing DECIMAL_DIG
(http://wiki.edg.com/pub/CFP/WebHome/changes_for_obsolescing_DECIMAL_DIG-20180306.pdf):
Change TS 18661-1 10.1: Needs the round to nearest rounding mode text as per the previous action item.
   Jim: Obsolescing DECIMAL_DIG
(http://wiki.edg.com/pub/CFP/WebHome/changes_for_obsolescing_DECIMAL_DIG-20180306.pdf):
Change TS 18661-1 10.1: Typo: IEC 60669 -> IEC 60559

Jim: Obsolescing DECIMAL_DIG
(http://wiki.edg.com/pub/CFP/WebHome/changes_for_obsolescing_DECIMAL_DIG-20180306.pdf): Get a document number and submit in time for the mailing if possible.

Jim: TS DR16: Remove the cbrt examples in parts 2 and 3 for cbrt as part of DR16 as a note for an editorial change.

Jim: TS DR13: http://wiki.edg.com/pub/CFP/WebHome/Re-revised_suggested_TC_for_CFP_DR_13-20180223.pdf:Send it out (with fixes to the font/alignment).

Jim: Reword http://wiki.edg.com/pub/CFP/WebHome/NaN_payload_functions_for_C-20180311.pdfF.10.13 description to say something along the lines of "a floating point number with an unsigned integer value" and for the function descriptions as well.

Fred: http://wiki.edg.com/pub/CFP/WebHome/in_flight-20180313.pdf:See where we are for inconsistent spec for infinities.

Fred: http://wiki.edg.com/pub/CFP/WebHome/in_flight-20180313.pdf:See where we are for missing Annex F spec for new functions.

Jim: Working drafts: Try red strike-through for parts 2-5 and red caret for part 1.

Study group logistics
Next meeting date: Tuesday, May 8?
TS working drafts with integrated DRs and editor fixes

IEEE 754 revision

C++ liaison

Action item details
DR for updating underflow definition
http://wiki.edg.com/pub/CFP/WebHome/n2210.pdf

changes for obsolescing DECIMAL_DIG
http://wiki.edg.com/pub/CFP/WebHome/n2211.pdf

Revised suggested TC for CFP DR 16
http://wiki.edg.com/pub/CFP/WebHome/n2212.pdf

Re-revised suggested TC for CFP DR 13
http://wiki.edg.com/pub/CFP/WebHome/n2213.pdf

Update to payload functions
http://wiki.edg.com/pub/CFP/WebHome/NaN_payload_functions_for_C-20180328.pdf

IEEE binding differences (from Fred's email on 2018/02/18)

Inconsistent spec for infinities

Missing annex F spec for new functions
Fred 3/17/18 email "[Cfp-interest] IEEE 754 vs Annex F"

Change marks for working drafts
http://wiki.edg.com/bin/view/CFP/WebHome

Other issues

Joseph Myers 3/19 email "(SC22WG14.14928) Floating-point DR#13 and integer arguments to type-generic macros"

Binding for IEEE 754-2018

WG14 paper about updating to IEEE 754:2018
Functions for augmented arithmetic
Min/max functions
Payload functions
Total order functions

C2x integration

Activities

Review activities in progress

Deferred issues

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