C Floating Point Study Group Teleconference

March 18, 2019
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 2019-02-20 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.
   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.
   All: Review the rationale for part 5 a, b, c proposal.
   Rajan: Say to WG14 that CFP supports removing the WANT macros and leaving the rest as is due to Fred's reasoning. Note: Also mention CFP's appreciation to Jens for the integration editing (done really well).

Action items from 2019-02-20 meeting
   Jim: Put a list of new items that need to be done like the binding table and the totalorder* carry over action items as well as adding in the min/max and augmented arithmetic to a new part 4 revision.
   Jim: Look at the part 3 X.2.6 change where the removal of the float _Imaginary, etc. part of the list may imply those are not valid types anymore.
   Jim: Get a document number to submit the Part 3 as an Annex proposal to WG14 for the mailing.
   Jim: Correct typo in page 1 of the proposal for part 4a ("As shown in the table below, C already supports 22 *of* the 39...")
   David H: Take a closer look at the new proposal for part 4a (http://wiki.edg.com/pub/CFP/WebHome/C2x_proposal_-_TS_18661-4a-2-20190213.pdf) to ensure it is good for submission via the reflector so it can be submitted by Jim to WG14.

All: Review http://wiki.edg.com/pub/CFP/WebHome/update_for_C2X_payload_functions.pdfwithin a week. If no changes, Jim will get a document number and send this into WG14.

Jim: Look to see if there is a place to put a note to address the alternate exception handling in annex F to clarify how C specifies using default exception handling only.

Jim: Get a document number to submit the Part 2 (http://wiki.edg.com/pub/CFP/WebHome/cfp2x-C2X-20190215.pdf) to WG14 for the mailing.

Fred: Create papers for the SNAN initialization and unary + operation as CFP papers (CFP 1249, 1253, 1247, 1250) for future submission to WG14.

All: Consider why we didn't have wide string from functions and if we should do them.

Study group logistics
Next meeting dates: Tuesday, April 23?

IEEE 754 revision

C++ liaison

WG 14 spring meeting
Prep for March 18 mailing, April 19 – May 3 meeting

C2x integration
Part 1
Part 2
Part 3
Part 4ab
Part 5abcd

Action item details
Jim: Put a list of new items that need to be done like the binding table and the totalorder* carry over action items as well as adding in the min/max and augmented arithmetic to a new part 4 revision. http://wiki.edg.com/pub/CFP/WebHome/For_IEEE_754-2019-20190305.pdf

Jim: Look at the part 3 X.2.6 change where the removal of the float _Imaginary, etc. part of the list may imply those are not valid types anymore.

Jim: Get a document number to submit the Part 3 as an Annex proposal to WG14 for the mailing. http://wiki.edg.com/pub/CFP/WebHome/n2342.pdf

Jim: Correct typo in page 1 of the proposal for part 4a ("As shown in the table below, C already supports 22 *of* the 39...")

David H: Take a closer look at the new proposal for part 4a (http://wiki.edg.com/pub/CFP/WebHome/C2x_proposal_-_TS_18661-4a-2-20190213.pdf) to ensure it is good for submission via the reflector so it can be submitted by Jim to WG14.
See David H's CFP 1272.

All: Review http://wiki.edg.com/pub/CFP/WebHome/update_for_C2X_payload_functions.pdfwithin a week. If no changes, Jim will get a document number and send this into WG14.

Jim: Look to see if there is a place to put a note to address the alternate exception handling in annex F to clarify how C specifies using default exception handling only.
See CFP 1270.

Jim: Get a document number to submit the Part 2 (http://wiki.edg.com/pub/CFP/WebHome/cfp2x-C2X-20190215.pdf) to WG14 for the mailing.
http://wiki.edg.com/pub/CFP/WebHome/n2341.pdf

Fred: Create papers for the SNAN initialization and unary + operation as CFP papers (CFP 1249, 1253, 1247, 1250) for future submission to WG14.

Rajan: Say to WG14 that CFP supports removing the WANT macros and leaving the rest as is due to Fred's reasoning. Note: Also mention CFP's appreciation to Jens for the integration editing (done really well).
See Rajan, Fred, and Jim's email CFP 1242, 1243, 1244, 1261.
See WG14 email 15982 – 15983, 15985.

All: Review the rationale for part 5 a, b, c proposal.

All: Consider why we didn't have wide string from functions and if we should do them.

Other issues

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Activities
Review activities in progress