C Floating Point Study Group Teleconference

2022-09-21
8 AM PDT / 10 PM EDT / 3 PM UTC

On Sep 21, 2022, at 9:22 AM, Rajan Bhakta <rbhakta@us.ibm.com> wrote:

Attendees: Rajan, Jim, Fred, Vivian, Damian, David H.

New agenda items (https://wiki.edg.com/pub/CFP/WebHome/n3056.pdf):
   None.

Next Meeting(s):
   November 16, 2022, 4PM UTC
   ISO Zoom teleconference
   Please notify the group if this time slot does not work.

Carry over action items:
   Done unless specified otherwise.
   Details below in "Carry-over action items results" section.

Last meeting action items:
   Done unless specified otherwise.
   Details below in "Action items results" section.

New action items:
   Jim/Fred: Re editorial review comment JT-096: Reword "matches" -> "uses" and reword value 2's description to say something like "following the specification for IEC 60559 operations". Also say that it uses the IEC 60559 storage format.
   Rajan: I can send David H. and David K. an email seeing what they are asking for to be a valid liaison for IEEE to WG14.
   All: Ensure the email addresses on the wiki are up to date. Can send the updated information to Jim Thomas or edit the wiki themselves.
   Jim: Ensure the email addresses on the wiki are up to date.

C++ liaison:
   Nothing new.

C23 integration:
   New draft available. N3054.
   Revised C23 schedule: https://www.open-std.org/jtc1/sc22/wg14/www/docs/n2984.pdf
   Comments and discussions when the CD ballot comes out must be through the national body, not CFP.

C23 draft review:
   See CFP2529 and follow up, CFP2538, CFP2543, CFP2544.
   Fred: Some of my comments did not seem to show up. May be my pdf viewer.
   Jim: Seems to be the viewer.
   Jim: Most comments are formatting problems or table/list/annex issues. Annex H for example. Some for italics/bold/fonts. Not much consistency. Hoping that got cleared up. Color was inconsistent too but it will be removed for the ballot document.
   Fred: My list I sent in was incomplete, just sent in some as examples.
   Jim: JT-096: If you have 2, what does that parenthetical mean?
   Fred: All subnormal support?
   Jim: Intel has a pure library for all IEEE 754 operations. Would that fit?
   Rajan: It can be more type specific information than what you get in Annex F's conformance macro.
   Jim: Can say following the specification for IEC 60559 formats in Annex F, but not necessarily full conformance to Annex F.
   Fred: Without subnormals, it can still be 1 since it has the right format, but not the operations.
   Jim: Yes.
   David H: 'uses' instead of 'matches' is better for the 0, 1, 2 cases a well as the starting paragraph text.
   ^Jim/Fred: Re JT-096, reword "matches" -> "uses" and reword value 2's description to say something like "following the specification for IEC 60559 operations"
   JT-097:
   Fred: If you sometimes support subnormals, is TRUE_MIN useful?
   Jim: The CD version of the draft may have this removed already.

Carry-over action items results:
   David H: Get an example for the scaled reduction functions (perhaps by asking Jason or Jim or looking into the IEEE references). - Not done.
   See CFP2547 for a starting point.
   David: I can do the pseudo code that looks like C. But need someone to review it. When I'm there, I'll ask for help. This was Khan's original justification. I expect anything involving factorials can get like this pretty quickly.

   David H: Get an example for the augmented arithmetic functions (perhaps by asking Jason or Jim or looking into the IEEE references). - Not done.
   David: Have asked Jason and Jim.
   Fred: I would recommend complex multiply/divide.
   David: A good thought. Complex multiplication is probably the best. Simple enough to understand and complicated enough to see the value of the augmented functions.

Action items results (from previous meeting):
   Rajan: Send Ian information on joining SCC's SC22 mirror committee.
   Done. No reply.

   Everyone: If you are in doubt about your membership, contact Rajan, Jim, and Fred.
   See [Cfp-interest 2517] Fwd: [WG 14 SG Chairs] Study Group Membership

Fred: OK now, but may be my last year unless something cheaper is found.

David: What do I need to show I am good from IEEE's side?

^Rajan: I can send you an email seeing what they are asking for to be a valid liaison for IEEE to WG14.

Jim: I can update Rajan's comment and send it up for review before I submit it Monday.

See [Cfp-interest 2538] CFP review of C23 draft N3047 - documents

Other issues

Review TS part 4 revision

See [Cfp-interest 2454] Re: post-C23 update for TS 18661-4

TS part 5 revision

Others?

^All: Ensure the email addresses on the wiki are up to date. Can send the updated information to Jim Thomas.