C Floating Point Study Group Teleconference

June 19, 2019
8 AM PDT / 11 PM EDT / 3 PM UTC

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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 2019-05-21 meeting
Posted on CFP wiki

Carry-over action items
All: Review the rationale for part 5 a, b, c proposal.
Fred: Create papers for the SNAN initialization and unary + operation as CFP papers (CFP 1249, 1253, 1247, 1250) for future submission to WG14.
Jim: Ensure that the quantum exponents table defines dN sufficiently in C2X. - Carry over (review next draft).

Action items from 2019-05-21 meeting
Jim: Investigate creating our own CFP compendium.
Fred: Give a new version of the SNAN initialization paper (as per CFP1316).
Jim: Point out to Jens that we're using two spellings for analog in the current C2X draft.
Jim: Look into the commas needed in the why_no_wide_string_strfrom_functions document, then get a document number and submit it.
Jim: Keep Rounding of negated constants on the agenda to discuss for next meeting.
Jim: Keep fesetexcept on the agenda to discuss for next meeting when Fred is present.

Study group logistics
Next meeting dates: Wednesday, July 24?

IEEE 754 revision

C++ liaison

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

Action item details

Jim: Investigate creating our own CFP compendium.

Fred: Create papers for the SNAN initialization and unary + operation as CFP papers (CFP 1249, 1253, 1247, 1250) for future submission to WG14.
See Tydeman's CFP 1290.

Fred: Give a new version of the SNAN initialization paper (as per CFP1316).

Jim: Ensure that the quantum exponents table defines dN sufficiently in C2X.

Jim: Look into the commas needed in the why_no_wide_string_strfrom_functions document, then get a document number and submit it.

All: Review the rationale for part 5 a, b, c proposal.
http://wiki.edg.com/pub/CFP/WebHome/n2120.pdf
http://wiki.edg.com/pub/CFP/WebHome/n2121.pdf
http://wiki.edg.com/pub/CFP/WebHome/n2122.pdf

Other issues

Rounding of negated floating-point constants under FENV_ROUND pragma.
See Jim's CFP 1314 and Mike's 5/14 reply.

fesetexcept and optional inexact
See CFP email thread "fesetexcept() and optional inexact"

Fred's WG 14 papers
See WG14 email thread "N2380: printf of NaN()"

Action items from WG14 London meeting:
C FP: Give 18661 part 4a (not reduction functions) for inclusion into C2X.
C FP: Put N2309 into TS 18661-4 and C2X.
TS DR13: Move to C2X (C FP action item).
TS DR16: Move to C2X (C FP action item).
TS DR20-25: Move to C2X (C FP action item).

Others?

Activities
Review activities in progress