WG14 N2414

C Floating Point Study Group Teleconference

August 21, 2019
8 AM PDT / 11 PM EDT / 3 PM UTC

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https://ibm.webex.com/cmp3300/webcomponents/widget/globalcallin/globalcallin.do?siteurl=ibm&serviceType=MC&ED=711376817&tollFree=1
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 2019-07-17 meeting
    Posted on CFP wiki

Carry-over action items
    Rajan: Forward the IEEE article to WG14 once David H sends it out to us.

Action items from 2019-07-17 meeting
    Jim: Draft a slide deck based on CFP1331.
    Jim: Add wording to the CFP1331 proposal make it clear this is for particular evaluation methods, and submit the document to W14.
    Jim: Add a statement as to why there is a second name for log1p as a footnote as a new proposal.
    Fred: Submit CFP 1340 to WG14.
    Jim: Reword CFP 1337 as per action item discussion in the 2019/07/17 meeting.
    Jim: Send CFP 1349 to the WG14 reflector as the CFP position.
    Fred: Write a paper to make the range error for small nonzero x consistent for expm1, logp1, log10p1's other base functions.
    Jim: Add in the normalized discussion from Fred (CFP 1341, CFP 1342) to the agenda for next meeting.

Study group logistics
Next meeting dates: Wednesday, September 18?

IEEE 754 revision

C++ liaison

C2x integration

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

Action item details

Jim: Draft a slide deck based on CFP1331.
http://wiki.edg.com/pub/CFP/WebHome/C2x_proposal_-_TS_18661-5abc-20190709.pdf

Jim: Add wording to the CFP1331 proposal make it clear this is for particular evaluation methods, and submit the document to W14.
http://wiki.edg.com/pub/CFP/WebHome/n2407.pdf

Jim: Add a statement as to why there is a second name for log1p as a footnote as a new proposal.
http://wiki.edg.com/pub/CFP/WebHome/C2x_proposal_-_why_logp1-20190719.pdf

Fred: Submit CFP 1340 to WG14.
http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2406.htm

Jim: Reword CFP 1337 as per action item discussion in the 2019/07/17 meeting.
See CFP 1371.

Jim: Send CFP 1349 to the WG14 reflector as the CFP position.
See SC22WG14.16914 and SC22WG14.16919.

Fred: Write a paper to make the range error for small nonzero x consistent for expm1, logp1, log10p1's other base functions.
See CFP 1357, 1360.

Jim: Add in the normalized discussion from Fred (CFP 1341, CFP 1342) to the agenda for next meeting.
What does "normalized" mean in C?

Other issues

Namespace intrusion.

Specifying more special cases for math functions, e.g., periodicity for half-revolution trig functions. Perhaps as recommended practice.

Example for FLT_EVAL_METHOD
http://wiki.edg.com/pub/CFP/WebHome/Example_for_FLT_EVAL_METHOD-20190815.pdf

SNANF
See CFP 1366, 1372

Others?

Activities
Review activities in progress