

**WG14 N2404**

## **C Floating Point Study Group Teleconference**

July 17, 2019

8 AM PDT / 11 PM EDT / 3 PM UTC

Phone: 1-844-531-0958

Access code: 920 471 989

Global call-in numbers:

<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 2019-06-19 meeting**

Posted on CFP wiki

#### **Carry-over action items**

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

#### **Action items from 2019-06-19 meeting**

Jim: Create a link to the 250 draft into the references section in the C FP wiki.

Rajan: Forward the IEEE article to WG14 once David H sends it out to us.

Jim: Draft a slide deck and a proposal based on CFP1331.

Jim: Draft a note to warn about CFP1315's rounding of negative constants issue.

#### **Study group logistics**

Next meeting dates: Wednesday, August 21?

## IEEE 754 revision

## C++ liaison

## C2x integration

Part 1

Part 2

Part 3

Part 4ab

Part 5abcd

## Action item details

Fred: Give a new version of the SNAN initialization paper (as per CFP1316).  
See Fred's CFP 1340.

Jim: Draft a slide deck and a proposal based on CFP1331.

Jim: Draft a note to warn about CFP1315's rounding of negative constants issue.  
See Jim's CFP 1337.

## Other issues

Fred's WG 14 papers

See WG14 email thread "N2380: printf of NaN()"

Issues raised by Jens

Naming of correctly rounded math functions.

Obsolescing  $\log_{10} p$ .

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

Putting the half-revolution trig functions into their own subclause.

Range error may occur if nonzero  $x$  is too small for  $\exp m1$ .

Range error may occur if nonzero  $x$  is too small for  $\log p1$  and  $\log_{10} p1$ .

Action items from WG14 London meeting

C FP: Give 18661 part 4a (not reduction functions) for inclusion into C2X.

<http://wiki.edg.com/pub/CFP/WebHome/n2401.pdf>

C FP: Put N2309 into TS 18661-4 and C2X.

<http://wiki.edg.com/pub/CFP/WebHome/n2401.pdf>

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