

**WG14 N2200**

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

February 20, 2018  
9 AM PST / 12 PM EST

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>

Screen sharing: <https://apps.na.collabserv.com/meetings/join?id=1950-7849>, Password: cfeisdygk

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 2018-01-09 meeting**

Posted on CFP wiki

#### **Action items from 2018-01-09 meeting**

All: exp10m1: Look at exp10m1 difference between the TS and 754 in more detail.

Jim: pow: Add a note to F10.4.4 pow to say it is the same as IEEE-754.

Jim: reduc\_sumprod: "computed sum" -> "computed dot product" for clarity.

Jim: Add preferred exponents functions list to part 4.

Jim: Get a N# and post the new TC for DR13 to WG14.

Jim: Create a new DR for arguments for comparison macros

([http://wiki.edg.com/pub/CFP/WebHome/DR\\_for\\_incommensurate\\_arguments\\_for\\_comparison\\_macros.pdf](http://wiki.edg.com/pub/CFP/WebHome/DR_for_incommensurate_arguments_for_comparison_macros.pdf))

Fred: Draft a note for roundTiesToEven for the exceptional case of two odd values.

Jim: Draft a proposal for CR\_DECIMAL\_DIG corrections (with the removal of DECIMAL\_DIG) and updating the footnote (F.5).

Jim: DR15: Make the Suggested TC the Proposed TC.

Jim: Re-update the activities list from results from today.

#### **Study group logistics**

Next meeting date: Tuesday, March 13?

## **IEEE 754 revision**

### **C++ liaison**

#### **Action item details**

exp10m1 underflow  
pow consistency with 754  
preferred exponents for part 4  
roundTiesToEven for case of two odd neighbors  
fixups for removal of DECIMAL\_DIG

#### **Other followup**

C DR16 cbrt example for tgmth

#### **Binding for IEEE 754-2018**

Functions for augmented arithmetic  
Min/max functions  
Payload functions  
Total order functions  
WG14 paper about updating to IEEE 754:2018

#### **C2x integration**

Status

#### **Activities**

Review activities in progress

#### **Deferred issues**

C standard use of “floating” vs “floating-point”