

**WG14 N2277**

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

July 25, 2018  
8 AM PDT / 11 PM EDT

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 2018-06-21 meeting**

Posted on CFP wiki

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

Ian: See if there is an incompatibility between C and C++ for constants being evaluated to a wider format (Ex. FLT\_EVAL\_METHOD affects constants in C++, and wider return values) - Keep open.

Jim: Update the binding table in parts 1 and 2 to handle the new IEEE-754:2018 functions when published.

David: Check the min/max C specification to ensure it matches what IEEE has.

David: Check the augmented\* C function specifications to ensure they match what IEEE has.

#### **Action items from 2018-06-21 meeting**

Jim: Remove screen-share information from the agenda.

Jim: Missing line numbers for part 2 (cfp2x-20180612.pdf)

Jim: Specification for inexact: Make the editorial change as given in the modified agenda with links.

Fred: Fix the wording for CR21 to specify odd significand.

Jim: C support for 754-201x: Say as per current IEEE draft and add in the N document numbers for 9.5 and 9.6 additions.

Jim: Submit the augmented arithmetic and min/max spec for 754:201x binding proposals to WG14 after removing change marks.

Jim: Create a CR for changing "not infinite" to "finite" as per the description for remainder (18661-1, F.10.7.2).

Jim: Create a paper/proposal for the loosening of the totalorder\* specifications to match 754-

201x.

Fred: Recheck 'Functions and infinity' issues with 754 draft 238.

Jim: Create a CR to change CFP to say for Annex F of C that  $\text{pow}(+/-0,-\text{inf})$  has no exception (i.e. Remove the latitude to raise div-by-zero).

Jim: Create a CR to change the reduction operations description from should->shall

## Study group logistics

Next meeting date: Wednesday, August 22?

## IEEE 754 revision

### C++ liaison

#### Action item details

Specification for inexact. Editorial change.

Wording for CR21 to specify odd significand.

C support for 754-201x. N document numbers for 9.5 and 9.6 additions.

Min/max C specification matches IEEE?

Augmented\* C function specifications match IEEE?

CR for changing "not infinite" to "finite" as per the description for remainder (18661-1, F.10.7.2).

Loosening of the totalorder\* specifications in 754-201x.

'Functions and infinity' issues with 754 draft 238.

CR to change CFP to say for Annex F of C that  $\text{pow}(+/-0,-\text{inf})$  has no exception (i.e. Remove the latitude to raise div-by-zero).

CR to change the reduction operations description from should->shall

Other issues?

## C2x integration

### Activities

Review activities in progress

### Deferred issues

C standard use of "floating" vs "floating-point"