C Floating Point Study Group Teleconference

August 29, 2017
9 AM PDT / 12 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 2017-07-11 meeting

Carry-over action items
none

Action items from 2017-07-11 meeting
Jim: Send the note (2017/06/28) drafted by Jim to WG14 for DR9 %a precision concerns.
Jim: Re DR501: Make a new proposal for Part 3 for new macros (format-specific DECIMAL_DIG like macros).
Jim: Check implications for tgmath with regards to the augmented precision functions.
Jim: Augmented precision: Add in text to state that the functions force a particular rounding (ignoring static or dynamic rounding modes and implementation supported rounding modes).
Jim: min-max: Add in a statement about the preferred exponent.
Jim: min-max: Add a reference to the corresponding Annex F section for NaN treatment in the fmaximum/fminimum/fmaximum_mag/fminimum_mag functions.
Jim: min-max: {fmaximum/fminimum/fmaximum_mag/fminimum_mag}_num functions: They determine the number -> they return the number
All: min-max: Consider what to do for fmin/fmax functions in the C standard.
Fred: Summarize what goes wrong for FLT_EVAL_METHOD for the things Fred has tested.

Study group logistics
 Next meeting date: Tuesday, September 26?

IEEE 754 revision

C++ liaison

C2x proposals

DRs

Binding for IEEE 754-2018

Augmented precision
Min/max operations
   What to do for fmin/fmax functions in the C standard?

Other issues

Continue discussions from last time …
   FLT_EVAL_METHOD effect on floating constants (Willem Wakker issue)
   C standard use of "floating" vs "floating-point"
   Constant rounding modes and tgmath (Joseph Myers issue)