

WG14 N2649

C Floating Point Study Group Teleconference

February 17, 2021

11:00 AM EST, 8:00 AM PST, 4:00 PM UTC

Join from PC, Mac, Linux, iOS or Android:

<https://iso.zoom.us/j/93561505634?pwd=TTh0MWVVCWWhlem5lUURCZENTUllrdz09>

Password: 593025

Or iPhone one-tap :

US: +16692192599,,93561505634# or +16699006833,,93561505634#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 669 219 2599 or +1 669 900 6833 or +1 213 338 8477 or +1 408 638 0968 or +1 720 928 9299 or +1 971 247 1195 or +1 206 337 9723 or +1 253 215 8782 or +1 346 248 7799 or +1 602 753 0140 or +1 651 372 8299 or +1 786 635 1003 or +1 267 831 0333 or +1 301 715 8592 or +1 312 626 6799 or +1 470 250 9358 or +1 470 381 2552 or +1 646 518 9805 or +1 646 876 9923 or 877 853 5247 (Toll Free) or 888 788 0099 (Toll Free)

Meeting ID: 935 6150 5634

Password: 593025

International numbers available: <https://iso.zoom.us/u/ake69sIBV>

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/93561505634>

CFP Wiki: <http://wiki.edg.com/twiki/bin/login/CFP/WebHome>

Draft Agenda

Meeting logistics

Note taker, mail out notes

Introduction of attendees

Approval of agenda

Notes from 2021-01-13 meeting

Posted on CFP wiki

Carry-over action items

none

Study group logistics

Next meeting dates: Wednesday, March 17?

C++ liaison

NaNs and domain errors – see Other issues below

C23 integration

Latest C2X drafts:

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2596.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2573.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2478.pdf>

Part 1

Part 2

Part 3

Part 4ab

Part 5abcd

IEC 60559:2020 support

Carry-over action items

none

Action items from 2021-01-13 meeting

Jim/Fred: Go through all the CFP proposals submitted to ensure they were put in the C standard draft (N2596) correctly.

Fred: Submit CFP 1869 to WG14 with the typo fix of adding a space to the second last change.

Fred: Resend the document relating to updating the example in G.5.1 using max to use the newer functions as a new proposal.

- [\[Cfp-interest 1896\] fmax, fmin](#) *Fred J. Tydeman*

Fred: Submit CFP 1870 to WG14.

Fred: Send out the changed text (CFP 1891) to 754.

Rajan: Test the change in CFP 1891 with IBM's implementation.

Fred: Submit the change proposed in CFP 1891 to WG14.

Jim/Fred: Make CFP 1866 into a draft WG14 proposal with the change "Positive zeros compare equal to negative zeros."

- [\[Cfp-interest 1901\] AI about comparing zeros](#) *Jim Thomas*

Fred: Change "negative signed value" to "a value with a negative sign" in CFP 1886 and submit it to WG14.

Jim: Make CFP 1881 into a WG14 proposal removing "with a negative sign bit".

- [\[Cfp-interest 1903\] AIs about negative values](#) *Jim Thomas*

Jim: Look at other uses of the phrase "sign bit" in the C standard.

- [\[Cfp-interest 1904\] AI about sign bit in C](#) *Jim Thomas*

Jim: Submit CFP 1879 to WG14 changing "reports" to "determines" in the footnote.

Rajan: Look into whether "should" can be used in an ISO standard. (Yes, allowed: See <https://www.iso.org/foreword-supplementary-information.html>)

Jim: Submit CFP 1883 as a WG14 proposal.

Jim: Get permission from WG14 to revise TS 18661-5 along the lines of what is proposed for TS 18661-4 in CFP 1856.

- [\[Cfp-interest 1907\] AI re permission for TS 18661-5 revision](#) *Jim Thomas*

Fred: Follow up with the WG14 editor about the changes in CFP 1874.

Jim: Combine CFP 1880 and CFP 1885, and update CFP 1885 to address the and/or ambiguity in the first suggested change and put it in the form of a proposal.

- [\[Cfp-interest 1908\] AI about 5.2.4.2.2 cleanup](#) *Jim Thomas*

Other issues

cr_xxx functions

- [\[Cfp-interest 1905\] cr_xxx functions](#) *Paul Zimmermann*
 - [\[Cfp-interest 1906\] Re: cr_xxx functions](#) *Jim Thomas*

Domain errors for quiet and signaling NaNs?

Range errors

- [\[Cfp-interest 1841\] C math errors](#) *Jim Thomas*
 - [\[Cfp-interest 1842\] Re: C math errors](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1843\] Re: C math errors](#) *Jim Thomas*
- [\[Cfp-interest 1873\] Range error](#) *Fred J. Tydeman*

Parameterization of interfaces

Others?