

WG14 N2877

C Floating Point Study Group Teleconference

December 22, 2021

11:00 AM EDT, 8:00 AM PDT, 4:00 PM UTC

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

<https://iso.zoom.us/j/99956897315?pwd=MU0rVC9QbTlxalMxaFdBeUFCSG55UT09>

Password: 946575

Or iPhone one-tap :

US: +14086380968,,99956897315# or +16692192599,,99956897315#

Or Telephone:

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

US: +1 408 638 0968 or +1 669 219 2599 or +1 669 900 6833 or +1 213 338 8477 or +1 253 215 8782 or +1 346 248 7799 or +1 602 753 0140 or +1 720 928 9299 or +1 971 247 1195 or +1 206 337 9723 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 +1 651 372 8299 or +1 786 635 1003 or +1 267 831 0333 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Meeting ID: 999 5689 7315

Password: 946575

International numbers available: <https://iso.zoom.us/j/99956897315>

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/99956897315>

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 2021-11-23 meeting

- [\[Cfp-interest 2297\] WG14 IEEE 754-C binding meeting minutes 2021/11/23](#) *Rajan Bhakta*
Posted on CFP wiki

Study group logistics

Next meeting date: Wednesday, January 19?

C++ liaison

- [\[Cfp-interest 2242\] Usual arithmetic conversions for long double and _Float64](#) *David Olsen*
 - [\[Cfp-interest 2243\] Re: Usual arithmetic conversions for long double and _Float64](#) *Jim Thomas*
- [\[Cfp-interest 2298\] Re: Usual arithmetic conversions for long double and _Float64](#) *David Olsen*

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 2021-11-23 meeting

Jim: Update CFP2277 linked documents to list November 2021 (not just November) for the WG14 meeting.

Jim: See what can be done to show the latest changes to existing accepted changes in all double-double updates to previously passed CFP papers.

Jim: Consider nextafter for the changes in CFP2280.

- [\[Cfp-interest 2299\] AIs regarding proposal updates](#) *Jim Thomas*

Jim: Put 'model number' into the 5.2.4.2.2 classification paragraphs. Ex. Saying 'model floating point number x'.

Jim: Look at making zero's into a separate paragraph for 5.2.4.2.2 number categories.

https://wiki.edg.com/pub/CFP/WebHome/C23_proposal_-_5.2.4.2.2_clean-up-update-20211130.pdf

Jim: Fix the pronouns (remove?) for the document in the second link in CFP2277 in the motivation section.

Jim: Add in "(finite or infinite)" to the last proposed change after "number" in CFP2280.

Jim: Look to put CFP2280 into the overflow update.

https://wiki.edg.com/pub/CFP/WebHome/C23_proposal_-_overflow_and_underflow_definitions-update-20211130.pdf

Rajan: For CFP2291, update the color to be more readable and add in wcstod functions updates and refer to overflow/underflow in 7.12.1 if possible.

Fred: Ask C++ what their issues with *_HAS_SUBNORM are and if they are OK with obsoleting it.

Jim: Write a note to the editor of WG14 to copy the definition of INFINITY or make a pointer to the float.h definition in math.h. Also look at the other macros to see if there are others with the same issue.

Other issues

Meaning of "nearest" in case of overflow

- [\[Cfp-interest 2246\] meaning of "nearest" in case of overflow](#) *Vincent Lefevre*
- [\[Cfp-interest 2260\] Re: meaning of "nearest" in case of overflow](#) *Jim Thomas*

printf and rounding recommendation

- [\[Cfp-interest 2256\] printf and rounding recommendation](#) *Vincent Lefevre*
 - [\[Cfp-interest 2257\] Re: printf and rounding recommendation](#) *Vincent Lefevre*
 - [\[Cfp-interest 2261\] Re: printf and rounding recommendation](#) *Jim Thomas*
 - [\[Cfp-interest 2262\] Re: printf and rounding recommendation](#) *Vincent Lefevre*

Terminology issues

- [\[Cfp-interest 2258\] terminology issues](#) *Vincent Lefevre*
- [\[Cfp-interest 2263\] Re: terminology issues](#) *Vincent Lefevre*
- [\[Cfp-interest 2264\] Fwd: terminology issues](#) *Jim Thomas*
 - [\[Cfp-interest 2271\] Re: Fwd: terminology issues](#) *Vincent Lefevre*

Others