

WG14 N2871

C Floating Point Study Group Teleconference

November 23, 2021

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

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

<https://iso.zoom.us/j/98271661507?pwd=bWQzT0srSVAYMTR3R1NkMENUQkNQUT09>

Password: 491460

Or iPhone one-tap :

US: +14086380968,,98271661507# or +16692192599,,98271661507#

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 +1 971 247 1195 or +1 206 337 9723 or +1 253 215 8782 or +1 346 248 7799 or +1 602 753 0140 or +1 720 928 9299 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 +1 301 715 8592 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Meeting ID: 982 7166 1507

Password: 491460

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

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/98271661507>

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 2021-10-13 meeting

- [\[Cfp-interest 2239\] WG14 IEEE 754-C binding meeting minutes 2021/10/13](#) *Rajan Bhakta*

Posted on CFP wiki

Study group logistics

Next meeting date: Wednesday, December 15? Wednesday, January 12?

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*

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 2021-10-13 meeting

Jim: Update the INFINITY macro paper to define INFINITY iff infinities exist in type float, and as an alternative, do what is in the current paper.

[N2848](#) 2021/10/15 Thomas, C23 proposal - Contradiction about INFINITY macro

Rajan: Bring up CFP's position in WG14's liaison report on not proposing double and long double INFINITY macros despite it being brought up. If WG14 wants it, let us (CFP) know.

Jim: Change N2716's alternative wording proposal to replace the second "=" in the example with "yields" and the "page 450" with the section, sub-clause number.

[N2847](#) 2021/10/15 Thomas, C23 proposal - Revised suggested change from N2716

Jim: Look at the changed text and why some unintentional underlining is present in C23_proposal_-_Normal_and_subnormal_classification-20211008.pdf (Ex. emax).

[N2842](#) 2021/10/15 Thomas, C23 proposal - Normal and subnormal classification

Other issues

Unordered (unmixable) types

- [\[Cfp-interest 2244\] Usual arithmetic conversions on unordered \(unmixable\) types](#) *Vincent Lefevre*
- [\[Cfp-interest 2250\] Re: Usual arithmetic conversions on unordered \(unmixable\) types](#) *Jim Thomas*
 - [\[Cfp-interest 2251\] Re: Usual arithmetic conversions on unordered \(unmixable\) types](#) *Vincent Lefevre*

HUGE_VAL

- [\[Cfp-interest 2245\] nextup/nextdown and HUGE_VAL definition](#) *Vincent Lefevre*
- [\[Cfp-interest 2252\] Re: nextup/nextdown and HUGE_VAL definition](#) *Jim Thomas*
 - [\[Cfp-interest 2253\] Re: nextup/nextdown and HUGE_VAL definition](#) *Damian McGuckin*
 - [\[Cfp-interest 2255\] Re: nextup/nextdown and HUGE_VAL definition](#) *Rajan Bhakta*

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*

Overflow, normalized numbers, N2805 and N2806

- [\[Cfp-interest 2247\] Re: \[SC22WG14.20768\] Overflow, normalized numbers, N2805 and N2806](#) *Jim Thomas*
- [\[Cfp-interest 2254\] Re: \[SC22WG14.20776\] Overflow, normalized numbers, N2805 and N2806](#) *Joseph Myers*
- [\[Cfp-interest 2259\] Fwd: \[SC22WG14.20798\] Overflow, normalized numbers, N2805 and N2806](#) *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*

Others?