

**WG14 N3310**

## **CFP meeting**

**Wednesday, August 14, 2024**

**8 AM PDT / 11 AM EDT / 3 PM UTC**

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

<https://iso.zoom.us/j/95196424498?pwd=eh30uW58csJhOOsQZb1Yca0kvg11RS.1>

Password: 450051

Or iPhone one-tap :

US: +19712471195,,95196424498# or +12532158782,,95196424498#

Or Telephone:

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

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

Meeting ID: 951 9642 4498

Password: 450051

International numbers available: <https://iso.zoom.us/u/ac0eSvt5K4>

## **Draft Agenda**

### **Meeting logistics**

Note taker, mail out notes

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

### **Introduction of attendees**

### **Approval of agenda**

### **Study group logistics**

Next CFP meeting date: September 18th?

### **Notes from 2024-06-19 meeting**

- [\[Cfp-interest 3152\] JTC1/SC22/WG14/CFP 2024/07/17 Meeting minutes -- rev A](#) *Jerome Coonen*

### **IEEE 754 liaison**

### **C++ liaison**

Midpoint and linear interpolation functions

## C23 integration

C2y drafts:

[N3301](#) 2024/07/28 Meneide, Working Draft C2y Post-June 2024

[N3220](#) 2024/02/22 Meneide & Wiedijk, Working Draft, C2y

C23 drafts:

[N3299](#) 2024/07/28 Meneide, Working Draft C2y Post C23-Publication

[N3219](#) 2024/02/22 Meneide & Wiedijk, ISO/IEC 9899:2023 DIS Draft

C23 working draft n3149 - July 2, 2023 - For CFP review only. Do not distribute.

[C23 CD2 - April 1, 2023](#)

[C2X working draft n3096 - April 1, 2023](#) 

[CD](#)

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n3054.pdf>

<http://www.open-std.org/jtc1/sc22/wg14/www/docs/n3047.pdf>

<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>

## Carry over action items

none

## Action items from previous meeting

Jerome, Jim: Draft proposal to new wording for pole error

Jerome: Summarize the usage of "may occur" with regard to numerical "anomalies"

- [\[Cfp-interest 3156\] When errors "may occur"](#) *Jerome Coonen*
  - [\[Cfp-interest 3157\] Re: When errors "may occur"](#) *Damian McGuckin*
  - [\[Cfp-interest 3158\] Re: When errors "may occur"](#) *Damian McGuckin*
  - [\[Cfp-interest 3159\] Re: When errors "may occur"](#) *Jim Thomas*

Damian: Send the group a proposal about Annex F/G language re. number ranges, esp. with signed 0

Rajan: Submit to WG14 this completed item: Fix the title in the proposal in CFP 3112. Base document as well from N3219->3220 and ensure the clause numbering is correct

[N3286](#) 2024/06/23 Bhakta, Floating-point exceptions for macro replacements

Rajan: Submit to WG14 the proposal for initialization of SNANs, issue #20

[N3288](#) 2024/07/19 Bhakta, Give consistent wording for SNAN initialization

???Rajan: Action re. 3109, to fix the language of a NaN "delivered in the destination format, if available"

[N3287](#) 2024/06/23 Bhakta, Nonsensical Parenthetical

Fred: Write a proposal for SIGFPE being raised for exceptional conversion and I/O circumstances (being careful about raise())

- [\[Cfp-interest 3144\] SIGFPE and I/O](#) *Fred J. Tydeman*

Jim: Write up notes about frexp() and behavior for model numbers

- [\[Cfp-interest 3154\] frexp and double-double](#) *Jim Thomas*

Jim: Submit proposal for decimal language to WG14

[N3291](#) 2024/06/27 Thomas, Proposal for C2Y - Decimal floating-point number—misuse of term

Jim: Submit proposal for 60559 macro change

Damian: Ask 754 about midpoint and interpolation

Jim: Include complex add and sub into the main body.

Jim & everyone: Look at ways to strengthen the complex \* and /, given the current code block.

- [\[Cfp-interest 3155\] Specification of complex operators](#) *Jim Thomas*

## TS-4 and TS-5 revisions

## C2y issues

Issues list

<https://wiki.edg.com/pub/CFP/WebHome/c26f.htm>

Status

<https://wiki.edg.com/pub/CFP/WebHome/C26%20Issues%20status.pdf>

Issue 1 – tgamma/lgamma errors, pole errors

Issue 5b – math macro issues - optional sign for SNAN (2 wording issues)

Issue 1b - `__STDC_WANT_IEC_60559_EXT__` in `<math.h>`

Issue 22 – wording variations for value ranges

Issue 23 – SIGFP and Clause 7 functions

Issue 24 – overflow and HUGE\_VAL macros

## Other issues

frexp and double-double underflow

- [\[Cfp-interest 3100\] Issue: frexp and double-double underflow](#) *Hubert Tong*
  - [\[Cfp-interest 3101\] Re: Issue: frexp and double-double underflow](#) *Fred J. Tydeman*
    - [\[Cfp-interest 3102\] Re: Issue: frexp and double-double underflow](#) *Fred J. Tydeman*
      - [\[Cfp-interest 3103\] Re: Issue: frexp and double-double underflow](#) *Hubert Tong*
      - [\[Cfp-interest 3104\] Re: \[SC22WG14.25365\] Issue: frexp and double-double underflow](#) *Hubert Tong*
- [\[Cfp-interest 3154\] frexp and double-double](#) *Jim Thomas*

Midpoint and linear interpolation functions

<https://www.open-std.org/jtc1/sc22/wg21/docs/papers/2019/p0811r3.html>

- [\[Cfp-interest 3145\] midpoint function](#) *David Hough CFP*
  - [\[Cfp-interest 3147\] Re: midpoint function](#) *Vincent Lefevre*
  - [\[Cfp-interest 3149\] Re: midpoint function](#) *Mike Cowlshaw*
    - [\[Cfp-interest 3151\] Re: midpoint function](#) *Vincent Lefevre*
  - [\[Cfp-interest 3150\] Re: midpoint function](#) *David Hough CFP*
- [\[Cfp-interest 3146\] thoughts on linear interpolations](#) *David Hough CFP*
  - [\[Cfp-interest 3148\] Re: thoughts on linear interpolations](#) *Damian McGuckin*

Reorganization of Annex G content

- [\[Cfp-interest 3155\] Specification of complex operators](#) *Jim Thomas*

Others?