

**WG14 N3278**

## **CFP meeting**

**Wednesday, June 19, 2024**

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

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

<https://iso.zoom.us/j/94056057322?pwd=KaBZKLwgQ6Dhm1vAjYFFIntbmFauMV.1>

Password: 115849

Or iPhone one-tap :

US: +19712471195,,94056057322# or +12532158782,,94056057322#

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: 940 5605 7322

Password: 115849

International numbers available: <https://iso.zoom.us/j/94056057322?pwd=KaBZKLwgQ6Dhm1vAjYFFIntbmFauMV.1>

## **Draft Agenda update**

### **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: July 19th?

### **Notes from 2024-05-22 meeting**

- [\[Cfp-interest 3111\] JTC1/SC22/WG14/CFP 2024/05/22 Meeting minutes - Next meeting time correction](#) *Rajan Bhakta*

### **IEEE 754 liaison**

### **C++ liaison**

Midpoint and linear interpolation functions

## WG 14 meeting

### Report

- [\[Cfp-interest 3119\] WG14 meeting CFP update](#) *Rajan Bhakta*
  - [\[Cfp-interest 3121\] Re: WG14 meeting CFP update](#) *Damian McGuckin*
    - [\[Cfp-interest 3123\] Re: WG14 meeting CFP update](#) *Rajan Bhakta*
  - [\[Cfp-interest 3124\] WG14 meeting CFP update #2](#) *Rajan Bhakta*

## C23 integration

### C2y drafts:

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

### C23 drafts:

[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

Jim/Jerome/Damian: Follow up on C26 issue 1.

Jerome: C26: Issue 1: Revamp to remove the "may" for negative errors.

Damian: Get a list of editorial issues in Annex G and send them out for future submission to WG14.

- [\[Cfp-interest 3096\] Annex F and Annex G - primarily about special cases](#) *Damian McGuckin*
  - [\[Cfp-interest 3097\] Re: Annex F and Annex G - primarily about special cases](#) *Jim Thomas*
    - [\[Cfp-interest 3098\] Re: Annex F and Annex G - primarily about special cases](#) *Damian McGuckin*

Fred: Put the text after issue 4 in c26d into issue 5.

Fred: Create a C26 issue to clear up 7.12.1#1 to ensure SIGFPE is not interpreted as being allowed for any clause 7 functions.

Jim: C26 Issue 19: Add to the changes for 7.24.1.6 the terms "decimal form" and "hexadecimal form" to paragraph 3's bullets 1 and 2 respectively to make it clear what the changes in paragraph 4 refer to. Also do the changes for issue 19 problems 1 and 2.

[\[Cfp-interest 3118\] Action item about C2y Issue 19 - misuse of "decimal floating-point number", etc.](#) *Jim Thomas*

- [\[Cfp-interest 3120\] Re: Action item about C2y Issue 19 - misuse of "decimal floating-point number", etc.](#) *Damian McGuckin*
  - [\[Cfp-interest 3122\] Re: Action item about C2y Issue 19 - misuse of "decimal floating-point number", etc.](#) *Jim Thomas*

## Action items from previous meeting

Rajan/Jim: Ask WG14 if a footnote (that we will have provided already) is needed for the CFP 3074 change to 7.1.2#7 saying an exception could still occur for an expression evaluation using the replacement.

- [\[Cfp-interest 3112\] Macros and floating-point exceptions proposal \(Action item result\)](#) *Rajan Bhakta*

Rajan: Make a proposal for WG14 based on CFP 3091.

- [\[Cfp-interest 3109\] AI from the 2024/05/22 meeting: Optional NaN](#) *Rajan Bhakta*

## TS-4 and TS-5 revisions

Status

## C26 issues

Issues list

<https://wiki.edg.com/pub/CFP/WebHome/c26d.htm>

Status

- [\[Cfp-interest 3127\] status of CFP issues for C2y](#) *Jim Thomas*

Issue 1 – terms and definitions for math errors

- [\[Cfp-interest 2994\] about C26 Issue 1](#) *Jim Thomas*
  - [\[Cfp-interest 2996\] Re: about C26 Issue 1](#) *Jim Thomas*
- [\[Cfp-interest 3016\] Re: about C26 Issue 1](#) *Jerome Coonen*
- [\[Cfp-interest 3043\] Kahan's paper regarding pow\(0,0\)](#) *Jerome Coonen*
  - [\[Cfp-interest 3044\] Re: Kahan's paper regarding pow\(0,0\)](#) *Damian McGuckin*
- [\[Cfp-interest 3064\] About powr\(0, 0\) from WG14 IEEE 754-C binding meeting minutes - 2024/03/13 - Corrected](#) *Vincent Lefevre*
- [\[Cfp-interest 3092\] about C26 Issue 1](#) *Jerome Coonen*

Issue 5 (incl 20) – macro exceptions

- [\[Cfp-interest 3045\] Action item for Rajan: C26 issue 5 version 2](#) *Rajan Bhakta*
- [\[Cfp-interest 3074\] Re: <math.h> macros and exceptions](#) *Jim Thomas*
- [\[Cfp-interest 3112\] Macros and floating-point exceptions proposal \(Action item result\)](#) *Rajan Bhakta*

Issue 18 - `__STDC_WANT_IEC_60559_EXT__` in `<math.h>`

- [\[Cfp-interest 3080\] Re: \[SC22WG14.24752\] `\_\_STDC\_WANT\_IEC\_60559\_EXT\_\_` and DFP interfaces](#) *Jim Thomas*

Issue 19 - `strt0*` abd `wcsto*` wording

- [\[Cfp-interest 3058\] problematic use of correctly rounded](#) *Jim Thomas*
- [\[Cfp-interest 3078\] Re: text of the `strt0\*` and `wcstodN` functions](#) *Jim Thomas*
  - [\[Cfp-interest 3079\] Re: text of the `strt0\*` and `wcstodN` functions](#) *Vincent Lefevre*
    - [\[Cfp-interest 3084\] Re: text of the `strt0\*` and `wcstodN` functions](#) *Jim Thomas*

Issue 21 – misplaced parentheses

- [\[Cfp-interest 3109\] AI from the 2024/05/22 meeting: Optional NaN](#) *Rajan Bhakta*

Imaginary types

[N3206 2023/12/15 Gustedt, The future of imaginary types](#)

- [\[Cfp-interest 2979\] background regarding complex and imaginary types](#) *Jim Thomas*

- [\[Cfp-interest 2980\] Re: background regarding complex and imaginary types](#) *Damian McGuckin*
  - [\[Cfp-interest 2981\] Re: background regarding complex and imaginary types](#) *Jim Thomas*
  - [\[Cfp-interest 2983\] Re: \[SC22WG14.24550\] background regarding complex and imaginary types](#) *Jens Gustedt*
    - [\[Cfp-interest 2984\] Re: \[SC22WG14.24550\] background regarding complex and imaginary types](#) *Damian McGuckin*
  - [\[Cfp-interest 2982\] Re: \[SC22WG14.24554\] background regarding complex and imaginary types](#) *Alex Celeste*

[N3241](#) 2024/04/14 Gustedt, Introduce complex literals

[N3263](#) 2024/05/15 Gustedt, Remove imaginary types v.2

Annex G issues

Others?

## 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*

Floating-point class revisited

- [\[Cfp-interest 3113\] a floating point class revisited](#) *Jerome Coonen*

Midpoint and linear interpolation functions

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

- [\[Cfp-interest 3114\] Two math functions](#) *Fred J. Tydeman*
  - [\[Cfp-interest 3115\] Re: Two math functions](#) *Damian McGuckin*
    - [\[Cfp-interest 3116\] Re: Two math functions](#) *Fred J. Tydeman*