

WG14 N3258

CFP meeting

Wednesday, May 22, 2024

8 AM PDT / 11 AM EDT / 3 PM UTC

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

<https://iso.zoom.us/j/97151873975?pwd=U1pEWmFudGx6dmcyuDZpeHJyTEZiUT09>

Password: 062680

Or iPhone one-tap :

US: +19712471195,,97151873975# or +12133388477,,97151873975#

Or Telephone:

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

US: +1 971 247 1195 or +1 213 338 8477 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 +1 301 715 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: 971 5187 3975

Password: 062680

International numbers available: <https://iso.zoom.us/j/97151873975>

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: June 19?

Notes from 2024-03-13 meeting

- [\[Cfp-interest 3095\] ISO JTC1/SC22/WG14/SG C Floating Point - Meeting minutes - 2024/04/10](#) *Rajan Bhakta*

IEEE 754 liaison

C++ liaison

C23 integration

C23 drafts:

C23 working draft n3219 – Preliminary DIS Ballot Draft - For CFP review only. Do not distribute.

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.

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*

Action items from previous meeting

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

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

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.

Rajan/Jim: Look to reword CFP 3074 change to 7.1.2#7 to avoid an implication you cannot signal if the replacement is part of a larger expression.

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.

Jim: Submit CFP 3058's document to WG14.

[N3242](#) 2024/04/21 Thomas, Proposal for C2Y - problematic use of "correctly rounded"

TS-4 and TS-5 revisions

Status

C26 issues

Issues list

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

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, Issue 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*

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 - `strto*` and `wcsto*` wording

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

Issue 21 – misplaced parentheses

- [\[Cfp-interest 3091\]](#) Fwd: Confusion about fromfp specification *Jim Thomas*

Imaginary types

- [N3206](#) 2023/12/15 Gustedt, The future of imaginary types
- [\[SC22WG14.24429\]](#) N3206 imaginary types *Joseph S. Myers*
- [\[SC22WG14.24431\]](#) N3206 imaginary types *Joseph S. Myers*
- [\[SC22WG14.24432\]](#) N3206 imaginary types *Martin Uecker*
- [\[SC22WG14.24434\]](#) N3206 imaginary types *Jens Gustedt*
- [\[SC22WG14.24435\]](#) N3206 imaginary types *Joseph S. Myers*
- [\[SC22WG14.24436\]](#) N3206 imaginary types *Jens Gustedt*
- [\[Cfp-interest 2979\]](#) 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

[N3240](#) 2024/04/14 Gustedt, Remove imaginary types

Annex G

- [\[Cfp-interest 2997\]](#) Annex G *Jim Thomas*
 - [\[Cfp-interest 2998\]](#) Re: Annex G *Damian McGuckin*
- [\[Cfp-interest 3018\]](#) Re: Annex G *Damian McGuckin*
- [\[Cfp-interest 3019\]](#) Appendix G6.4.2 *Damian McGuckin*

- [\[Cfp-interest 3021\] Re: Appendix G6.4.2](#) *Damian McGuckin*
- [\[Cfp-interest 3032\] clog\(INFINITY + i y\)](#) *Damian McGuckin*
 - [\[Cfp-interest 3034\] Re: clog\(INFINITY + i y\)](#) *Jim Thomas*
 - [\[Cfp-interest 3035\] Re: clog\(INFINITY + i y\)](#) *Damian McGuckin*
 - [\[Cfp-interest 3037\] Re: clog\(INFINITY + i y\)](#) *Damian McGuckin*
 -
- [\[Cfp-interest 3053\] csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
 - [\[Cfp-interest 3057\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
 - [\[Cfp-interest 3065\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Jim Thomas*
 - [\[Cfp-interest 3066\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
 - [\[Cfp-interest 3067\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Jim Thomas*
 - [\[Cfp-interest 3082\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
 - [\[Cfp-interest 3086\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Jim Thomas*
 - [\[Cfp-interest 3088\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
 - [\[Cfp-interest 3090\] Re: csinh\(x + i y\) - G.6.3.5 - 5th bullet point of special cases](#) *Damian McGuckin*
- [\[Cfp-interest 3055\] casinh\(x + iNaN\) - Annex G.6.3.2](#) *Damian McGuckin*
 - [\[Cfp-interest 3069\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Jim Thomas*
 - [\[Cfp-interest 3070\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Damian McGuckin*
 - [\[Cfp-interest 3071\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Jim Thomas*
 - [\[Cfp-interest 3072\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Damian McGuckin*
 - [\[Cfp-interest 3081\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Damian McGuckin*
 - [\[Cfp-interest 3085\] Re: casinh\(x + iNaN\) - Annex G.6.3.2](#) *Jim Thomas*
- [\[Cfp-interest 3083\] csinh\(0 + i NaN\)](#) *Damian McGuckin*
 - [\[Cfp-interest 3087\] Re: csinh\(0 + i NaN\)](#) *Damian McGuckin*
 - [\[Cfp-interest 3089\] Re: csinh\(0 + i NaN\)](#) *Damian McGuckin*

Meaning of $0 < x < \text{infinity}$

- [\[Cfp-interest 3046\] What words mean \$0 < x < \text{INFINITY}\$](#) *Damian McGuckin*
 - [\[Cfp-interest 3047\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3048\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Damian McGuckin*
 - [\[Cfp-interest 3049\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Jerome Coonen*
 - [\[Cfp-interest 3050\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Damian McGuckin*
 - [\[Cfp-interest 3051\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Damian McGuckin*
 - [\[Cfp-interest 3052\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Jerome Coonen*
 - [\[Cfp-interest 3054\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Damian McGuckin*
 - [\[Cfp-interest 3068\] Re: What words mean \$0 < x < \text{INFINITY}\$](#) *Jim Thomas*

Wording, etc.

- [\[Cfp-interest 3056\] Finite \$x \neq 0\$](#) *Damian McGuckin*
- [\[Cfp-interest 3059\] Annex F of N3219.pdf](#) *Damian McGuckin*
 - [\[Cfp-interest 3060\] Re: Annex F of N3219.pdf - F10.4.8](#) *Damian McGuckin*
 - [\[Cfp-interest 3061\] Re: Annex F of N3219.pdf - F10.3](#) *Damian McGuckin*
- [\[Cfp-interest 3073\] Re: Annex F of N3219.pdf](#) *Jim Thomas*
 - [\[Cfp-interest 3075\] Re: Annex F of N3219.pdf](#) *Damian McGuckin*
- [\[Cfp-interest 3099\] N3219 - 6.2.5 #15 and #15 - Page 40](#) *Damian McGuckin*

Others?

Other issues

Typeface inconsistency

- [\[Cfp-interest 3076\] Generic Mathematical functions](#) *Damian McGuckin*
 - [\[Cfp-interest 3077\] Re: Generic Mathematical functions](#) *Jim Thomas*
- [\[Cfp-interest 3094\] Fwd: Generic Mathematical functions](#) *Jim Thomas*

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*