

WG14 N3338

CFP meeting

**Wednesday, September 18, 2024
8 AM PDT / 11 AM EDT / 3 PM UTC**

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

<https://iso.zoom.us/j/96057061276?pwd=RDEn2DQMbyabJTnxcdODpPZai6I3FO.1>

Password: 485902

Or iPhone one-tap :

US: +19712471195,,96057061276# or +16027530140,,96057061276#

Or Telephone:

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

US: +1 971 247 1195 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 +1 253 215 8782 or +1 346 248 7799 or +1 408 638 0968 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 +1 312 626 6799 or +1 470 250 9358 or +1 470 381 2552 or 877 853 5247 (Toll Free) or 888 788 0099 (Toll Free)

Meeting ID: 960 5706 1276

Password: 485902

International numbers available: <https://iso.zoom.us/u/ad1NWXA1gi>

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: October 16th?

Notes from 2024-08-14 meeting

- [\[Cfp-interest 3253\] JTC1/SC22/WG14/CFP 2024/08/14 Meeting minutes -- v. 2](#) *Jerome Coonen*

C Documents


C2y drafts:

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

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

[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>

IEEE 754 liaison

C++ liaison

Midpoint and linear interpolation functions

Carry over action items

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*

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

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

Action items from previous meeting

All: Investigate issue [Cfp-interest 3196] Fwd: [SC22WG14.26243] constexpr initialization seemingly can contain UB? from email forwarded by Fred, involving a constant expression of the form 1.0/0.0, for example.

All: Investigate issue [Cfp-interest 3195] Fwd: [SC22WG14.26260] Can nan set errno? from an email forwarded by Fred, involving the possible setting of errno by the nan() functions.

Jim: Add 2 issues raised by Rajan regarding WG14.

Jim: Add actions for group in short term.

Jim: Draft proposal to remove instances of imaginary lingering in draft.
[\[Cfp-interest 3250\] Lingering references to imaginary type](#) *Jim Thomas*

Jerome: add document # to pole proposal.
[N3324](#) 2024/09/04 Thomas, C2Y proposal - wording for pole error

Fred: investigate range error issue for llogb(), which differs from ilogb().

- [\[Cfp-interest 3202\] llogb\(\)](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3228\] Re: llogb\(\)](#) *Jim Thomas*

Jerome: Identify fadd/fsub and fma "error may occur" issues and report.

Damian: Send email about sign conventions in Annex F & G proposal.

- [\[Cfp-interest 3200\] Various Updates to Annex F+G](#) *Damian McGuckin*
- [\[Cfp-interest 3203\] Re: Various Updates to Annex F+G](#) *Damian McGuckin*

Damian & Jerome: Identify technical changes in the F & G proposal. Investigate ways to split the proposal into natural subsets.

Fred: Revise the proposal for SIGFPE and I/O, in light of further discussion

TS-4 and TS-5 revisions

- [\[Cfp-interest 3184\] Updated draft TSes](#) *Jim Thomas*

Discussion of issues

Moving complex ops spec from Annex G to main body

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

frexp and double-double

- [\[Cfp-interest 3100\] 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*

constexpr initialization with UB

- [\[Cfp-interest 3196\] Fwd: \[SC22WG14.26243\] constexpr initialization seemingly can contain UB?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3225\] Re: \[SC22WG14.26243\] constexpr initialization seemingly can contain UB?](#) *Jim Thomas*
 - [\[Cfp-interest 3226\] Re: \[SC22WG14.26243\] constexpr initialization seemingly can contain UB?](#) *Fred J. Tydeman*

nan function and errno

- [\[Cfp-interest 3195\] Fwd: \[SC22WG14.26260\] Can nan set errno?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3198\] Re: Can nan\(\) set errno?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3210\] Re: Can nan\(\) set errno?](#) *Jim Thomas*
 - [\[Cfp-interest 3227\] Re: Can nan\(\) set errno?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3229\] Re: Can nan\(\) set errno?](#) *Jim Thomas*
 - [\[Cfp-interest 3230\] Re: Can nan\(\) set errno?](#) *Joshua Cranmer*
 - [\[Cfp-interest 3237\] Re: Can nan\(\) set errno?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3238\] Re: Can nan\(\) set errno?](#) *Jim Thomas*
 - [\[Cfp-interest 3239\] Re: Can nan\(\) set errno?](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3256\] Re: Can nan\(\) set errno?](#) *Jim Thomas*
 - [\[Cfp-interest 3259\] Re: Can nan\(\) set errno?](#) *Fred J. Tydeman*

mid-point and linear interpolation functions

- [\[Cfp-interest 3145\] 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*

lingering imaginary types

- [\[Cfp-interest 3250\] Lingering references to imaginary type](#) *Jim Thomas*

use of "can not"

- [\[Cfp-interest 3162\] use of "can not" in N3301 5.2.2.4p13](#) *Vincent Lefevre*
 - [\[Cfp-interest 3173\] Re: use of "can not" in N3301 5.2.2.4p13](#) *Jim Thomas*
 - [\[Cfp-interest 3179\] Re: use of "can not" in N3301 5.2.2.4p13](#) *Vincent Lefevre*
 - [\[Cfp-interest 3180\] Re: use of "can not" in N3301 5.2.2.4p13](#) *Jim Thomas*

range errors for ilogb and llogb

- [\[Cfp-interest 3202\] llogb\(\)](#) *Fred J. Tydeman*
 - [\[Cfp-interest 3228\] Re: llogb\(\)](#) *Jim Thomas*

fadd/fsub and fma "error may occur" issues

treatment of error conditions

- [\[Cfp-interest 3193\] improving the language of 7.12.2 "Treatment of error conditions"](#) *Jerome Coonen*

changes to 6.X and 7.X

- [\[Cfp-interest 3247\] C26 Complex Related Changes](#) *Damian McGuckin*
 - [\[Cfp-interest 3248\] Re: C26 Complex Related Changes](#) *Damian McGuckin*
 - [\[Cfp-interest 3249\] Re: C26 Complex Related Changes](#) *Jim Thomas*

deeper TOC for annexes

- [\[Cfp-interest 3164\] TOC depth for C annexes](#) *Jim Thomas*

Other issues