

WG14 N3569

CFP meeting

Wednesday, June 11, 2025

8 AM PDT / 11 AM EDT / 3 PM UTC

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

<https://iso.zoom.us/j/99816803364?pwd=ag4X4AqTxFYggtBKsKbaTMosZ6mMq3.1>

Password: 193049

Or iPhone one-tap :

US: +19712471195,,99816803364# or +16692192599,,99816803364#

Or Telephone:

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

US: +1 971 247 1195 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 +1 602 753 0140
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 +1 646 518 9805 or 877 853 5247 (Toll
Free) or 888 788 0099 (Toll Free)

Meeting ID: 998 1680 3364

Password: 193049

International numbers available: <https://iso.zoom.us/j/99816803364>

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: July 16th?

Notes from 2025-05-14 meeting

- [\[cfp-interest 3464\] JTC1/SC22/WG14/CFP 2025/05/14 Meeting minutes](#) *Jerome Coonen*

TS-4 and TS-5 revisions

- <https://www.iso.org/standard/83622.html>
- <https://www.iso.org/standard/83623.html>

C Documents

C2y drafts:

- [N3550](#) 2025/05/04 Meneide, Working Draft (Post Graz 2025)
- [N3467](#) 2025/02/09 Meneide, Working Draft (Pre-Graz)
- [N3435](#) 2025/01/03 Meneide, C2y Working Draft
- [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:

- <https://webstore.iec.ch/en/publication/102886>
- [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.

IEEE 754 liaison

C++ liaison

Reproducible floating point

- [\[cfp-interest 3453\] Fwd: floating point](#) *Jim Thomas*
- [\[cfp-interest 3461\] reproducibility vs conformance in 754 floating point](#) *David Hough CFP*

Carry over action items

Damian: Update the proposal re. the wording of `cimag()` and `creal()`.

- [\[cfp-interest 3460\] Changes - 7.3.1 Introduction <complex.h> + creal/cimag](#) *Damian McGuckin*

Ly: Send email to CFP about the next ____() issues pertaining to the several functions inspired by `nextafter()`.

- [\[cfp-interest 3456\] Re: nexttoward](#) *LNT*

Rajan: Monitor the new WG14 issue tracker re. TS 18661-4, the domain and range error issue.

Action items from previous meeting

Jim: Draft a note about the `[[reproducible]]` issue.

- [\[cfp-interest 3466\] Re: \[\[reproducible\]\] EXAMPLE 3 in 6.7.13.8](#) *Jim Thomas*

Jerome & Jim: Get a document # for the powr proposal, 3550, check the minor updates, and submit to WG14.

<https://wiki.edg.com/pub/CFP/WebHome/n3560.pdf>

Damian & Jim: Get a document # and submit the cproj proposal with minor updates to WG14.

[N3536](#) 2025/05/25 Thomas, Proposal for C2Y - Clarify wording for 7.3.9.5 – cproj

Jim: Review the `complex.h` proposal from Damian to confirm that the changes listed in CFP 3448 are correct, and there if are no other significant changes then submit it to WG14. Otherwise, CFP will review it again next month.

[N3537](#) 2025/05/25 Thomas, Proposal for C2Y - Correct and clarify 7.3.1 Introduction of Complex arithmetic

Jerome: Search C2Y for instances of "return value" vs. "return type" and summarize the usage across the whole document.

Rajan: Send note to Javier supporting his changes re. atan2 and atan2pi range errors, and encouraging him to proceed with his proposal.

- [\[cfp-interest 3458\] Re: Range error conditions for atan2 and atan2pi](#) RAJAN BHAKTA
 - [\[cfp-interest 3471\] Re: Range error conditions for atan2 and atan2pi](#) RAJAN BHAKTA

Jim: Write up a suggestion re. semantic rules for constant evaluation.

- [\[cfp-interest 3465\] Action item re semantic rules for constant evaluation](#) Jim Thomas

Ly: Send email on expanded complex functions.

Jim & Group: Write a note about the priorities list while group ponders list.

Discussion of issues

Reproducible floating point

- [\[cfp-interest 3453\] Fwd: floating point](#) Jim Thomas
- [\[cfp-interest 3461\] reproducibility vs conformance in 754 floating point](#) David Hough CFP

[[reproducible]] example in 6.7.13.8 ignores exceptions

- [\[cfp-interest 3466\] Re: \[\[reproducible\]\] EXAMPLE 3 in 6.7.13.8](#) Jim Thomas

powr(x,y) with $x < 0$

<https://wiki.edg.com/pub/CFP/WebHome/n3560.pdf>

Range error wording for atan2 and atan2pi

- [\[cfp-interest 3431\] Range error conditions for atan2 and atan2pi](#) Javier Múgica
 - [\[cfp-interest 3458\] Re: Range error conditions for atan2 and atan2pi](#) RAJAN BHAKTA
 - [\[cfp-interest 3471\] Re: Range error conditions for atan2 and atan2pi](#) RAJAN BHAKTA
 - [\[cfp-interest 3472\] Re: Range error conditions for atan2 and atan2pi](#) Damian McGuckin
 - [\[cfp-interest 3473\] Re: Range error conditions for atan2 and atan2pi](#) Jim Thomas
 - [\[cfp-interest 3474\] Re: Range error conditions for atan2 and atan2pi](#) Damian McGuckin
 - [\[cfp-interest 3500\] Re: Range error conditions for atan2 and atan2pi](#) Jim Thomas

Semantic rules for constant expression evaluation

- [\[cfp-interest 3465\] Action item re semantic rules for constant evaluation](#) Jim Thomas

Return value vs return type

- [\[cfp-interest 3442\] \(no subject\)](#) Damian McGuckin
 - [\[cfp-interest 3443\] Re: \(no subject\)](#) RAJAN BHAKTA
 - [\[cfp-interest 3450\] Re: \(no subject\)](#) Jim Thomas

next____() issues

- [\[cfp-interest 3456\] Re: nexttoward](#) LNT
 - [\[cfp-interest 3457\] Re: nexttoward](#) Vincent Lefevre
 - [\[cfp-interest 3459\] Re: nexttoward](#) Jim Thomas
 - [\[cfp-interest 3467\] Re: nexttoward](#) Damian McGuckin

Editorial suggestions incl wording for cimag and creal

- [\[cfp-interest 3460\] Changes - 7.3.1 Introduction <complex.h> + creal/cimag](#) Damian McGuckin

Imaginary I macro and i suffix issues, N3390 update

- [\[cfp-interest 3368\] removing imaginary I](#) *Jim Thomas*

Editorial consistency in Annex F

- [\[cfp-interest 3476\] Discussion of Consistency Changes to Annex F](#) *Damian McGuckin*

frexp() in Annex F

- [\[cfp-interest 3468\] frexp\(\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3469\] Re: frexp\(\) in Annex F](#) *Vincent Lefevre*
 - [\[cfp-interest 3470\] Re: frexp\(\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3477\] Re: frexp\(\) in Annex F](#) *Vincent Lefevre*
 - [\[cfp-interest 3478\] Re: frexp\(\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3488\] Re: frexp\(\) in Annex F](#) *Vincent Lefevre*
 - [\[cfp-interest 3489\] Re: frexp\(\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3487\] Re: frexp\(\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3497\] Re: frexp\(\) in Annex F](#) *Vincent Lefevre*

More complex functions, e.g. ccbrrt, csinpi

CFP list of post C23 issues

<https://wiki.edg.com/pub/CFP/WebHome/c26g.htm>

- [\[cfp-interest 3454\] CFP issues status](#) *Jim Thomas*

Miscellaneous new issues

- [\[cfp-interest 3475\] Missing quotes in C standard - 6.4.5.3#13](#) *Damian McGuckin*
- [\[cfp-interest 3483\] Magnitude or Absolute Value or |x| or](#) *Damian McGuckin*
 - [\[cfp-interest 3486\] Re: Magnitude or Absolute Value or |x| or](#) *Damian McGuckin*
- [\[cfp-interest 3484\] Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3485\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
- [\[cfp-interest 3490\] hypot\(x, NAN\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3496\] Re: hypot\(x, NAN\) in Annex F](#) *Vincent Lefevre*
- [\[cfp-interest 3491\] C2Y's canonicalise\(\) in AnnexF - F.10.9.7](#) *Damian McGuckin*
 - [\[cfp-interest 3492\] Re: C2Y's canonicalise\(\) in AnnexF - F.10.9.7](#) *Damian McGuckin*
- [\[cfp-interest 3495\] C2Y - F10.1#14](#) *Damian McGuckin*
- [\[cfp-interest 3498\] C2Y - F.10.9.1 - nextafter\(x, y\)](#) *Damian McGuckin*
- [\[cfp-interest 3499\] C2Y - Preferred Style in Annex F - fromfp/fromfpx or nearbyint/rint](#) *Damian McGuckin*