

WG14 N3676

CFP meeting

Wednesday, August 13, 2025
8 AM PDT / 3 PM UTC

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

<https://iso.zoom.us/j/93299509189?pwd=HlyLiCQP3bDILxC4ute8rPdvbaNEzA.1>

Password: 786078

Or iPhone one-tap :

US: +19712471195,,93299509189# or +17209289299,,93299509189#

Or Telephone:

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

US: +1 971 247 1195 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 +1 669 219 2599 or +1 669 900 6833 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 +1 646 876 9923 or +1 651 372 8299 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Meeting ID: 932 9950 9189

Password: 786078

International numbers available: <https://iso.zoom.us/u/adwdM2pXmb>

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: August 17th?

Notes from previous meeting

- [\[cfp-interest 3546\] JTC1/SC22/WG14/CFP 2025/07/09 Meeting notes -- rev. 1](#) *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.

WG 14 matters

IEEE 754 liaison

C++ liaison

Carry over action items

Ly: Send email on expanded complex functions.

Rajan: Monitor the new WG14 issue tracker re. TS 18661-4, the domain and range error issue, to see the level of interest in making this small fix.

Rajan: Bring the N3390 update issue up at WG14 meeting.
[N3581](#) 2025/07/01 Celeste, Remove the imaginary I, v2

Action items from previous meeting

Jim and group: Check changes to `[[reproducible]]` example in next C2Y draft.

- [\[cfp-interest 3550\]](#) Fwd: [\[SC22WG14.32508\]](#) The `[[reproducible]]` Example 3, §6.7.13.8.3 *Jim Thomas*

Jim: Submit proposal re. `atan2` and `ata2pi`.

[N3646](#) 2025/07/20 Thomas, Proposal for C2Y - Clarification of range error condition for `atan2`

Jim Submit proposal re. compile time semantics.

[N3647](#) 2025/07/20 Thomas, Proposal for C2Y - Semantic rules for constant evaluation

Group: Review the doc list in Rajan's email [3530](#) before the 25 July WG14 mailing deadline, to ensure that all submitted proposals are included in his list. Contact CFP or Rajan directly with any additions.

Jerome & Jim: Re. the changes of "return value" to "return type", get a document number, submit, and add to Rajan's list.

[N3648](#) 2025/07/20 Thomas, Proposal for C2Y - Improved language for return type vs. return value

Jim: Change the wording of the decouple proposal and update for next meeting. Use the new X to Y form of suggestion, less heavily dependent on colored text.

- [\[cfp-interest 3545\]](#) Re: [Pragmas and headers](#) *Jim Thomas*

Damian: update the source documents for the 3 Annex F topics under consideration.

Damian: Send note to JeanHeyd, cc CFP, re. missing quotes around the invalid exception.

Jim: Write a proposal for changes re. "preferred" quantum exponent.

- [\[cfp-interest 3548\] Issues re. preferred quantum exponents](#) *Jim Thomas*

Jerome: Write a proposal to remove "exp" as an argument name, per Vincent's suggestion.

- [\[cfp-interest 3554\] action -- proposal to remove exp as an argument name](#) *Jerome Coonen*

Discussion of issues

Follow up on the [\[\[reproducible\]\]](#) example

- [\[cfp-interest 3550\] Fwd: \[SC22WG14.32508\] The \[\\[\\[reproducible\\]\\]\]\(#\) Example 3, §6.7.13.8.3](#) *Jim Thomas*

Decoupling pragmas from headers

- [\[cfp-interest 3545\] Re: Pragmas and headers](#) *Jim Thomas*

Preferred quantum exponent

- [\[cfp-interest 3506\] preferred quantum exponent](#) *Vincent Lefevre*
- [\[cfp-interest 3512\] Re: preferred quantum exponent](#) *Jim Thomas*
- [\[cfp-interest 3548\] Issues re. preferred quantum exponents](#) *Jim Thomas*

Reserved 'exp' used in prototypes

- [\[cfp-interest 3542\] use of reserved exp in frexp*, ldexp* and scalbn* prototypes](#) *Vincent Lefevre*
- [\[cfp-interest 3554\] action -- proposal to remove exp as an argument name](#) *Jerome Coonen*

Removing imaginary I

[N3581](#) 2025/07/01 Celeste, Remove the imaginary I, v2

FE_TOWARDSZERO in C23 and C2Y draft

[\[SC22WG1414.32729\]](#) FE_TOWARDSZERO in C23 standard, *Pascal Cuoq*

Missing quotes in C standard

- [\[cfp-interest 3475\] Missing quotes in C standard - 6.4.5.3#13](#) *Damian McGuckin*

Annex F - syntax for function special cases

Annex F - integer 'n'

Annex F – signaling NaNs in F.2.2

Output bounds for math functions

- [\[cfp-interest 3549\] Re: C23 possible defect: output bounds of imprecise math functions](#) *Jim Thomas*
 - [\[cfp-interest 3551\] Re: C23 possible defect: output bounds of imprecise math functions](#) *Paul Zimmermann*

Overflow, non-default rounding, errno

- [\[cfp-interest 3555\] Overflow, non-default rounding, errno is what?](#) *Fred J. Tydeman*
 - [\[cfp-interest 3556\] Re: Overflow, non-default rounding, errno is what?](#) *Vincent Lefevre*

Rounding Direction Mode or Rounding Direction or Rounding Mode

- [\[cfp-interest 3484\] 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*
 - [\[cfp-interest 3508\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Vincent Lefevre*
 - [\[cfp-interest 3509\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3516\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *David Hough CFP*
 - [\[cfp-interest 3517\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3519\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Jim Thomas*
 - [\[cfp-interest 3521\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3523\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Jerome Coonen*
 - [\[cfp-interest 3524\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3525\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Jerome Coonen*
 - [\[cfp-interest 3527\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3528\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*
 - [\[cfp-interest 3529\] Re: Rounding Direction Mode or Rounding Direction or Rounding Mode](#) *Damian McGuckin*

F10.1#14

- [\[cfp-interest 3495\] C2Y - F10.1#14](#) *Damian McGuckin*

F.10.9.1 - nextafter(x, y)

- [\[cfp-interest 3498\] C2Y - F.10.9.1 - nextafter\(x, y\)](#) *Damian McGuckin*

canonicalize() in AnnexF - F.10.9.7

- [\[cfp-interest 3491\] 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*

hypot(x, y) - C2Y F.10.5.4

- [\[cfp-interest 3503\] hypot\(x, y\) - C2Y F.10.5.4](#) *Damian McGuckin*
 - [\[cfp-interest 3504\] Re: hypot\(x, y\) - C2Y F.10.5.4](#) *Damian McGuckin*
 - [\[cfp-interest 3507\] Re: hypot\(x, y\) - C2Y F.10.5.4](#) *Paul Zimmermann*
 - [\[cfp-interest 3505\] Re: hypot\(x, y\) - C2Y F.10.5.4](#) *Vincent Lefevre*
 - [\[cfp-interest 3510\] Re: hypot\(x, y\) - C2Y F.10.5.4](#) *Damian McGuckin*
 - [\[cfp-interest 3511\] Re: hypot\(x, y\) - C2Y F.10.5.4](#) *Damian McGuckin*

hypot(x, NAN) in Annex F

- [\[cfp-interest 3490\] hypot\(x, NAN\) in Annex F](#) *Damian McGuckin*
 - [\[cfp-interest 3496\] Re: hypot\(x, NAN\) in Annex F](#) *Vincent Lefevre*

Magnitude or Absolute Value or $|x|$ or

- [\[cfp-interest 3483\] Magnitude or Absolute Value or \$|x|\$ or](#) *Damian McGuckin*
 - [\[cfp-interest 3486\] Re: Magnitude or Absolute Value or \$|x|\$ or](#) *Damian McGuckin*

Preferred Style in Annex F - fromfp/fromfpx or nearbyint/rint

- [\[cfp-interest 3499\] C2Y - Preferred Style in Annex F - fromfp/fromfpx or nearbyint/rint](#) *Damian McGuckin*

More complex functions, e.g. ccbtr, csinpi