

**WG14 N2832**

## **C Floating Point Study Group Teleconference**

October 13, 2021

11:00 AM EDT, 8:00 AM PDT, 3:00 PM UTC

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

<https://iso.zoom.us/j/92741435453?pwd=RHFoSWIBSXF6a21UWTk0UTRRMEhXZz09>

Password: 531101

Or iPhone one-tap :

+16699006833,,92741435453# or +12133388477,,92741435453#

Or Telephone:

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

US: +1 669 900 6833 or +1 213 338 8477 or +1 408 638 0968 or +1 669 219 2599 or +1 253 215 8782 or +1 346 248 7799 or +1 602 753 0140 or +1 720 928 9299 or +1 971 247 1195 or +1 206 337 9723 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 +1 646 876 9923 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Meeting ID: 927 4143 5453

Password: 531101

International numbers available: <https://iso.zoom.us/u/aclbmRK6P>

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/92741435453>

CFP Wiki: <http://wiki.edg.com/twiki/bin/login/CFP/WebHome>

### **Draft Agenda**

#### **Meeting logistics**

Note taker, mail out notes

#### **Introduction of attendees**

#### **Approval of agenda**

#### **Notes from 2021-09-29 meeting**

- [\[Cfp-interest 2161\] WG14 IEEE 754-C binding meeting minutes 2021/03/16](#) *Rajan Bhakta*

Posted on CFP wiki

#### **Study group logistics**

Next meeting date: Wednesday, November 17?

## C++ liaison

SC22 special meeting about C/C++ compatibility

[\[Cfp-interest 2142\] scheduling message](#) *Jim Thomas*

- [\[Cfp-interest 2147\] Re: scheduling message](#) *Jim Thomas*
  - [\[Cfp-interest 2151\] Re: scheduling message](#) *Jim Thomas*
- [\[Cfp-interest 2157\] Compatibility of C and C++ floating-point changes](#) *David Olsen*
- [\[Cfp-interest 2201\] Re: scheduling message](#) *Jim Thomas*

## C23 integration

Latest C2X drafts:

<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>

Part 1

Part 2

Part 3

Part 4ab

Part 5abcd

IEC 60559:2020 support

## Carry-over action items

None

## Action items from 2021-09-29 meeting

Jim: Propose new wording for N2716's change that WG14 did not accept as is.

- [\[Cfp-interest 2171\] AI about new wording for unaccepted change](#) *Jim Thomas*
  - [\[Cfp-interest 2175\] Re: AI about new wording for unaccepted change](#) *Mike Cowlshaw*
    - [\[Cfp-interest 2180\] Re: AI about new wording for unaccepted change](#) *Fred J. Tydeman*
      - [\[Cfp-interest 2181\] Re: AI about new wording for unaccepted change](#) *Mike Cowlshaw*
      - [\[Cfp-interest 2184\] Re: AI about new wording for unaccepted change](#) *Jim Thomas*
        - [\[Cfp-interest 2192\] Re: AI about new wording for unaccepted change](#) *Jim Thomas*
        - [\[Cfp-interest 2193\] Re: AI about new wording for unaccepted change](#) *Mike Cowlshaw*
    - [\[Cfp-interest 2182\] Re: AI about new wording for unaccepted change](#) *Rajan Bhakta*
    - [\[Cfp-interest 2183\] Re: AI about new wording for unaccepted change](#) *Jim Thomas*
      - [\[Cfp-interest 2188\] Re: AI about new wording for unaccepted change](#) *Mike Cowlshaw*
        - [\[Cfp-interest 2190\] Re: AI about new wording for unaccepted change](#) *Jim Thomas*

Rajan: Get a document number for CFP2140 and send an updated document to CFP before WG14.

- [\[Cfp-interest 2165\] Freestanding with FP binding - wording take 2](#) *Rajan Bhakta*

Jim: Put the formulas into CFP2130's text and show CFP before submitting it to WG14.

- [\[Cfp-interest 2172\] AI about using formulas to define normal and subnormal](#) *Jim Thomas*
  - [\[Cfp-interest 2176\] Re: AI about using formulas to define normal and subnormal](#) *Mike Cowlshaw*
    - [\[Cfp-interest 2178\] Re: AI about using formulas to define normal and subnormal](#) *Fred J. Tydeman*
    - [\[Cfp-interest 2177\] Re: AI about using formulas to define normal and subnormal](#) *Damian McGuckin*

Jim: Reword the footnote for CFP2153 and show it to CFP before submitting it to WG14.

- [\[Cfp-interest 2179\] Re: AI to reword footnote about transformations](#) *Fred J. Tydeman*

Jim: Send out a change to CFP changing the wording of the FLT\_MAX\_EXP family of macros to say they are for normalized numbers.

- [\[Cfp-interest 2185\] AI about max exponent macros](#) *Jim Thomas*
  - [\[Cfp-interest 2196\] Re: AI about max exponent macros](#) *Fred J. Tydeman*

Anyone: Look into the use of the term "floating-point number".

- [\[Cfp-interest 2110\] Double-double](#) *Fred J. Tydeman*

Rajan: Get back to Aaron about the FLT\_EVAL\_METHOD constant value question and point him to part 5 of the TS which does have changing values.

- [\[Cfp-interest 2166\] Re: CFP question with FLT\\_EVAL\\_METHOD](#) *Rajan Bhakta*
  - [\[Cfp-interest 2170\] Re: CFP question with FLT\\_EVAL\\_METHOD](#) *Aaron Ballman*

All: Look at CFP2136 and respond within a week.

- [\[Cfp-interest 2136\] Fwd: \[SC22WG14.20399\] tgmth.h narrowing macros with integer arguments](#) *Jim Thomas*

Jim: Submit a paper to remove the promotion rules as per discussion in CFP2141.

- [\[Cfp-interest 2186\] AI to remove promotion rules for TS-3 types](#) *Jim Thomas*
  - [\[Cfp-interest 2197\] Re: AI to remove promotion rules for TS-3 types](#) *Fred J. Tydeman*

Jim: Propose the change in CFP2154 to WG14.

- [\[Cfp-interest 2187\] AI for feraiseexcept update](#) *Jim Thomas*
  - [\[Cfp-interest 2189\] Re: AI for feraiseexcept update](#) *Damian McGuckin*
    - [\[Cfp-interest 2191\] Re: AI for feraiseexcept update](#) *Jim Thomas*
  - [\[Cfp-interest 2194\] Re: AI for feraiseexcept update](#) *David Hough CFP*
    - [\[Cfp-interest 2195\] Re: AI for feraiseexcept update](#) *Jim Thomas*
  - [\[Cfp-interest 2198\] Re: AI for feraiseexcept update](#) *Fred J. Tydeman*
    - [\[Cfp-interest 2199\] Re: AI for feraiseexcept update](#) *Jim Thomas*
      - [\[Cfp-interest 2200\] Re: AI for feraiseexcept update](#) *David Olsen*

## Other issues

Contradiction about INFINITY macro

- [\[Cfp-interest 2202\] Re: contradiction about the INFINITY macro](#) *Jim Thomas*
  - [\[Cfp-interest 2204\] Re: contradiction about the INFINITY macro](#) *Fred J. Tydeman*
  - [\[Cfp-interest 2205\] Re: contradiction about the INFINITY macro](#) *Vincent Lefevre*
    - [\[Cfp-interest 2206\] Re: contradiction about the INFINITY macro](#) *Fred J. Tydeman*
      - [\[Cfp-interest 2207\] Re: contradiction about the INFINITY macro](#) *Vincent Lefevre*

Wrapping up proposals

- [\[Cfp-interest 2203\] wrapping up proposals](#) *Jim Thomas*
- [\[Cfp-interest 2223\] Re: wrapping up proposals](#) *Jim Thomas*

Others?