

WG14 N2616

C Floating Point Study Group Teleconference

November 25, 2020

11:00 AM EST, 8:00 AM PST, 4:00 PM UTC

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

<https://iso.zoom.us/j/93791565902?pwd=ZnFYNy92SIBRcmNXbDICOHhpRnRGUT09>

Password: 807423

Or iPhone one-tap :

US: +14086380968,,93791565902# or +16699006833,,93791565902#

Or Telephone:

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

US: +1 408 638 0968 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799 or +1 312 626 6799 or +1 646 876 9923 or +1 301 715 8592 or 877 853 5247 (Toll Free)

Meeting ID: 937 9156 5902

Password: 807423

International numbers available: <https://iso.zoom.us/j/93791565902>

Or Skype for Business (Lync):

<https://iso.zoom.us/skype/93791565902>

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 2020-10-21 meeting

Posted on CFP wiki

Carry-over action items

none

Action items from 2020-10-21 meeting

Fred: Look into other places to update references to DEC_EVAL_METHOD as per N2546.

Rajan: Discuss with JeanHyde on what to do for N2558 (and mention our plans for N2559).

Jim: Update N2559 to add 'superseded' and update the bibliography as per Josephs comments.

Jim: Get an N# and submit the new draft of TS Part 3 as an annex.

Fred: Rework CFP 1797 to address the comments in the message.

Fred: Write a paper to remove the fminfN/fmaxfN/fmindN/... functions from part 3 as an annex.

Fred: Create a paper for the missing cases for compound{n} as per CFP 1793.
Jim: Submit the need for editorial changes along the lines of CFP 1794 to JeanHyde.

Study group logistics

Next meeting dates: Wednesday, December 23?

C++ liaison

C23 integration

Latest C2X draft: <http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2573.pdf>

also as link on CFP wiki

Previous C2X draft: <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

Action item details

Fred: Look into other places to update references to DEC_EVAL_METHOD as per N2546.

- [\[Cfp-interest 1836\] DEC_EVAL_METHOD](#) *Fred J. Tydeman*

Rajan: Discuss with JeanHyde on what to do for N2558 (and mention our plans for N2559).

Jim: Update N2559 to add 'superseded' and update the bibliography as per Josephs comments.

<https://wiki.edg.com/pub/CFP/WebHome/n2600.pdf> - C23 proposal - Revised N2559 update for IEC 60559 2020

Jim: Get an N# and submit the new draft of TS Part 3 as an annex.

<https://wiki.edg.com/pub/CFP/WebHome/n2601.pdf> - C2X proposal - TS 18661-3 annex update 3

Fred: Rework CFP 1797 to address the comments in the message.

- [\[Cfp-interest 1797\] Re: Exact subnormal results](#) *Jim Thomas*
 - [\[Cfp-interest 1798\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1799\] Re: Exact subnormal results](#) *Jim Thomas*
 - [\[Cfp-interest 1800\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1801\] Re: Exact subnormal results](#) *Jim Thomas*
 - [\[Cfp-interest 1802\] Re: Exact subnormal results](#) *David Chen*
 - [\[Cfp-interest 1803\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1804\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1808\] Re: Exact subnormal results](#) *Jim Thomas*
 - [\[Cfp-interest 1805\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1806\] Re: Exact subnormal results](#) *Jim Thomas*
 - [\[Cfp-interest 1809\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1810\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1811\] Re: Exact subnormal results](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1812\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1813\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1814\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1815\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1816\] Re: Exact subnormal results](#) *David Hough CFP*
 - [\[Cfp-interest 1817\] Re: Exact subnormal results](#) *Damian McGuckin*
 - [\[Cfp-interest 1818\] Re: Exact subnormal results](#) *Fred J. Tydeman*

- [\[Cfp-interest 1834\] Range error & exact subnormals](#) *Fred J. Tydeman*
- [\[Cfp-interest 1841\] C math errors](#) *Jim Thomas*
 - [\[Cfp-interest 1842\] Re: C math errors](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1843\] Re: C math errors](#) *Jim Thomas*

Fred: Write a paper to remove the fminfN/fmaxfN/fmindN/... functions from part 3 as an annex.

- [\[Cfp-interest 1837\] fmax, fmin](#) *Fred J. Tydeman*

Fred: Create a paper for the missing cases for compound{n} as per CFP 1793.

- [\[Cfp-interest 1835\] C23 vs 754](#) *Fred J. Tydeman*

Jim: Submit the need for editorial changes along the lines of CFP 1794 to JeanHyde.

<https://wiki.edg.com/pub/CFP/WebHome/n2602.pdf> - C23 proposal - edits for infinity and NaN macros

Other issues

Fix for decimal SNAN prefixes

Preferred quantum exponents

- [\[Cfp-interest 1819\] Preferred quantum exponent of +\(x\)](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1821\] Re: Preferred quantum exponent of +\(x\)](#) *Jim Thomas*
- [\[Cfp-interest 1820\] Preferred quantum exponent for exact result](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1828\] Re: Preferred quantum exponent for exact result](#) *Jim Thomas*
- [\[Cfp-interest 1823\] Preferred quantum exponent](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1829\] Re: Preferred quantum exponent](#) *Jim Thomas*

Signaling NaNs

- [\[Cfp-interest 1825\] hypot\(SNAN,+0\)](#) *Fred J. Tydeman*
- [\[Cfp-interest 1827\] pow\(\) and signaling NaN](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1830\] Re: pow\(\) and signaling NaN](#) *Jim Thomas*
 - [\[Cfp-interest 1831\] Re: pow\(\) and signaling NaN](#) *Damian McGuckin*
 - [\[Cfp-interest 1832\] Re: pow\(\) and signaling NaN](#) *Jim Thomas*
 - [\[Cfp-interest 1833\] Re: pow\(\) and signaling NaN](#) *Damian McGuckin*

Even zero

- [\[Cfp-interest 1824\] tanpi\(n + .5\)](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1826\] Re: tanpi\(n + .5\)](#) *Mike Cowlshaw*

Negative zero

- [\[Cfp-interest 1838\] Negative zero](#) *Fred J. Tydeman*
 - [\[Cfp-interest 1839\] Re: Negative zero](#) *Damian McGuckin*
 - [\[Cfp-interest 1840\] Re: Negative zero](#) *Damian McGuckin*

Parameterization of interfaces

TS 18661 updates

Others?