

WG14 N2765
Meeting notes

C Floating Point Study Group Teleconference

2021-05-19
8 AM PDT / 11 AM EDT / 3 PM UTC

Notes on 2021/05/19 CFP meeting by Fred Tydeman.

Attendees: Jim Thomas, Fred Tydeman, Ian McIntosh, Mike Cowlshaw, Damian McGuckin, David Hough, Ivan Kosarev

New agenda items:
None.

Next meeting:
June 23 (week after next WG14 meeting).

C++ liaison
None.

IEEE-754 errata (maintained by Mike Cowlshaw)
Updated based upon feedback from Fred.
AI: Mike: Send errata to IEEE-754 email list.

C23 integration
No changes.

Action items from 2021-04-13 meeting

Mailman attachments [CFP 1996]: CFP email list has turned off filtering of attachments. David: Number of people on the CFP list: 24

AI: Fred: WG14 N2714 Add "a" before "NaN" in last bullet.

Default static init [CFP 1990]: rewrite as:
zero, and if it has DFP type, the quantum exponent is implementation defined;
(not sure about "quantum" here)
(look at C std to see if bullet list ends in ; not .)
AI: Fred: Do changes, and submit to WG14.

cr_ prefix [CFP 1967] N2715: Submitted to WG14. Make sure last sentence of paragraph is kept when discuss with WG14.

Range error AIs for Jim.

"Normal" in C: C uses "normalized".

Range errors issue 1: Change "below" in footnote to "In this subclause".
AI: Jim: Do that change and submit to WG14.

[CFP 1997]: Range error is union of overflow and underflow.
Overflow: "ordinary accuracy" not defined, but OK.
Underflow: exact minimum normal is underflow. Seems wrong. But no better wording.

AI: Jim Submit to WG14.

Annex F: binary(fuzzy) vs decimal(well defined) on underflow. Be vague in C and refer to 754. So, words are OK.

AI: Jim: Submit to WG14.

Footnote 403: Is "must" OK?

AI: Jim: Reword footnote 403. Submit to WG14.

feraiseexcept: traps and alternate exceptions.

AI: Jim: Fix wording and submit to WG14.

Annex F binding: CFP 1998, CFP 2002

Add 'however' to F.3

AI: Jim: Redo 7.31.8 reference: Reserves cr_ prefix names for ...

Next steps: Templates for function names. Waiting for response from JeanHeyd.

AI: Rajan: Should post to list results of discussion of next steps w.r.t. shorthand for functions in C standard.

CFP 1934: No one looked

Other issues

[CFP 1991]: WG14 N2642. "observation" is weird. Breakup in two sentence. Finite result is implementation defined - footnote: not specific in 754, but a possible definition is 0.

AI: Jim, David, Fred: Rework and resubmit to WG14.

Others?

None.