

**WG14 N2113**  
**Meeting notes**

**C Floating Point Study Group Teleconference**

2017-01-24  
9 AM PST / 12 PM EST

**Attendees:** Rajan, Jim, Mike, David H., David C.

**New agenda items:**

None.

**Last meeting action items:**

Jim: Call David Keaton and ask for advice on how and when to present proposals for Parts 3-5.  
- Done.

David K: Go ahead and do it whenever ready.

Jim: Write up a proposed TC for DR501 to make the DECIMAL\_DIG macro obsolescent. -  
Done (discussed below).

All: Make sure we're OK with DDR9/DR11's change. - Done (discussed below).

Jim: Ask the IEEE-754 revision mailing list if the payload for NaN's must be non-negative (0  
and up allowed). - Done.

DR set 3: DDR1.

Jim: Reflector message 14561: Fix up "macro argument" to something along the lines of  
7.25#3. - Done (discussed below).

DR set 3: DDR2.

**New action items:**

All: Review the posted proposals (on CFP wiki with date 2016/09/01) by next meeting as it is  
the last one before the Markham mailing.

Jim: DRS2: DDR7: Look to see if there is a simpler way of showing the change.

Rajan: DRS2: DDR9: Add code examples for implementers to test out and send it out via email.

Jim: DRS2: DDR2: Write a paper with this text (DECIMAL\_DIG\_obsolescence.pdf) for WG14.

Jim: Make SC22WG14.14586 a proposal for C2X.

Jim: Respond to Joseph's comments on SC22WG14.14586, SC22WG14.14587 via WG14  
reflector.

**Next Meeting:**

Tuesday February 28th, 2017, 12:00 EST, 9:00 PST  
Same teleconference number.

**Discussion:**

IEEE 754 revision:

Close to completion. One major issue left: max/min.

C++ liaison:

No update.

What should be proposed for the C standard (C2X):

\*Review the posted proposals (on CFP wiki with date 2016/09/01).

Decide whether or not to submit the proposals for the Markham mailing, along with any alternatives.

DRs:

Set 2:

DDR9/DR11 (%a formatting):

Go ahead with the change since it makes it an IEEE conversion and increases the utility.

\*Rajan: DRS2: DDR9: Add code examples for implementers to test out.

\*Jim: DRS2: DDR7: Look to see if there is a simpler way of showing the change.

DR501 (DECIMAL\_DIG\_obsolescence.pdf):

We can make it obsolescent or try to change the C standard to allow wider.

Consensus is to make it obsolescent.

\*Jim: DRS2: DDR2: Write a paper with this text (DECIMAL\_DIG\_obsolescence.pdf) for WG14.

There is a problem with the original proposal: if a wider type was later added, there would be compatibility issues with decimal\_dig changing.

Set 3:

DDR1:

Mike: Similar to the decimal case where it is specified this way.

Looks good.

DDR2 (SC22WG14.14561):

Looks good.

Other:

SC22WG14.14586:

Not strictly a defect. More of a feature.

Can be considered an oversight.

Jim: Make this (SC22WG14.14586) a proposal for C2X.

For FLT\_ROUNDS, backwards compatibility is enough to not make the change.

SC22WG14.14587:

Nothing to add.

Seems to be such an esoteric case that no one will hit it. Shouldn't dwell on it.

Rajan Bhakta

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