

Attendees

Rajan Bhakta
Steve Canon
Marius Cornea
David Hough
Mathew Koshy
Ian McIntosh
Jon Okada
Joel Salomon
Jim Thomas
Fred Tydeman

CFP Study Group Meeting Minutes, September 8th 2011

Action items from previous meeting

1. Fred to change `getpayload()` from "undefined" to "unspecified" for non-NaN input.
 - Not Done
2. Jim and Jon to investigate how we might specify functions like `hypot` that might lose a signaling NaN input.
 - Done
3. Steve to update proposal for rounding attributes/modes and flags.
 - Open
4. Jim to change "fetestexceptflags" to "fetestexceptflag" in functions proposal.
 - Done

Study group logistics

Next meeting time: Thursday, October 13th 2011 same time.

Discussions of NaNs

- Jim / Jon's proposal for handling special case of functions that don't propagate qNaN (*posted under Topics* → *NaNs* → [JIMSNAN.TXT](#)). Proposal also fixes C1x spec not to prohibit if an implementation wants to completely support NaNs.
- Ian suggested an inquiry macro which would determine only a qNaN and be undefined for a sNaN, for faster implementation say by a non signaling compare equal.
- It was suggested to move the canonicalize() and payload() to Annex F
 - A.I: Fred to look into SNAND naming issue
 - A.I: Fred/Ian to investigate whether sNaN behavior in other sections like Annex G should be undefined or implementation defined.
 - A.I: Fred to incorporate the suggestions into the NaN proposal.

Discussions of Rounding attributes/modes and flags

- Jim sent out an email clarifying issues raised in the last meeting
- Jim suggested that static rounding mode takes precedence over dynamic rounding mode in a given scope. Jon and Ian raised concerns about the complex interaction cases between static and dynamic rounding mode, especially with setjmp/longjmp.
- In addition to the functions listed by Jim, Steve called out roundToIntegralExact, quantize, conversion from/to integer, and conversion operations from/to decimal character sequences functions that may be need to be affected by static rounding. Steve raised an issue of calling these functions via a pointer.
 - A.I: Steve to incorporate suggestions into the proposal document.

Other Discussions

- Next C meeting on Oct 24-28. Jim talked with Jon Benito who would give a slot for CFP status. Jim suggested to
 - Present the features of 754 missing from c1x/decimal TR
 - Present the main topics addressed so far in order to present an idea of the proposed specifications.
 - A.I : Jim to draft the outline of the presentation to C committee for review