Changes to TS 18661 Part 2
Decimal floating-point arithmetic

WG 14 N1766
2013-10-2
Changes (1)

• Ref. N1757 – draft TS 18661 Part 2
• Change marks relative to N1690
• Changes to C11 (+ TC1) + TS18661-1 (e.g., Page 2, Lines 21-34)
• Want macro changed to ___STDC_WANT_IEC_60559_DFP_EXT___
• Each header clause lists of all identifiers controlled by the WANT macro (Page 3, Lines 5-)
Changes (2)

- Term *standard* instead of *generic* for floating types float, double, and long double
- Clearer bindings to IEC 60559 (e.g., Page 8, Lines 13-15)
- Reorganization of C11 5.2.4.2.2[a] to move alternate model and quantum specification to the end (Pages 9-11)
- Separate constant rounding control pragma for decimal: FENV_DEC_ROUND (Pages 21, 22)
- FAST macros for functions rounding result to narrower type (corresponding to Part 1 change) (Page 24)
Changes (3)

• Omissions filled in (e.g., total order functions, Page 30, Lines 25-32)
• llquantexp replaces iquantexp, quantum functions added (Pages 33, 34)
• Use of unsigned char arrays instead of types for IEC 60559 encodings (Pages 34-)
• Editorial corrections