

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