

Subject: Unresolved issue 344 and nearby stuff  
 From: Van Snyder

## 1 Edits

Edits refer to 01-007r3. Page and line numbers are displayed in the margin. Absent other instructions, a page and line number or line number range implies all of the indicated text is to be replaced by immediately following text, while a page and line number followed by + (-) indicates that immediately following text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [ and ] in the text.

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[Editor: “or ... value”  $\Rightarrow$  “if that value is representable; otherwise it shall be the representable value that is nearest to the original value in the direction of zero”.] 216:33

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[This isn’t related to issue 344, but it’s nearby. The specification for NEAREST rounding doesn’t say anything. Editor: Insert “to the original value” after “other”.] 216:35

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[This also isn’t related to issue 344. The specification for COMPATIBLE rounding is defective in the same way as the specification for NEAREST rounding. It also has a very different expositional style from NEAREST, making one wonder what’s different about it. The answer is “nothing but the choice in the case of nearest representable values equidistant to the original one.” The discussions ought to be parallel. Editor: “or ... them”  $\Rightarrow$  “if one is closer than the other to the original value. If the two nearest representable values are equidistant from the original value, the result is the representable value nearest to the original value in the direction away from zero”.] 216:38-39

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[It’s difficult to specify IEEE rounding on systems that don’t have IEEE representation, so specifying the precise behavior in terms of representable numbers isn’t the same as specifying IEEE rounding for non-IEEE systems. It’s also not an adequate excuse for a sloppy description. Editor: Delete unresolved issue note 344.] 217:1-19