Subject: Comments on clause 14
From: Van Snyder

1 Edits

Edits refer to 07-007. 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 associated text, while a page and line number followed by + (-) indicates that associated text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

[Editor: Insert “the exceptions” before “IEEE_OVERFLOW”.]	439:8
[Editor: Delete “Also,”.]	439:18
[The standard is about processors and programs, not programmers. Editor: “programmer’ ⇒ “program” thrice.]	Note 14.3+2,8,9
[Editor: “containing” ⇒ “representing”.]	440:30+1
[Editor: Insert “is” before “for” twice.]	441:2,7
[Editor: Replace the semicolon by a comma.]	441:9
[Editor: “to return” ⇒ “returns” twice.]	441:10,12
[If one at first reads “signals” as a noun instead of a verb the sentence is confusing. Editor: Insert “of them” before “signals”.]	442:7
[Editor: “held within” ⇒ “represented by”.]	444:13
[Editor: “lowered” ⇒ “reduced”.]	444:19
[Editor: “Tables” ⇒ “Summary” (there are no tables here).]	445:30
[Editor: Needs an ISO-mandated subsection.]	445:30+
[The standard is about processors and programs, not programmers. Editor: “programmer writing’ ⇒ “program containing”.]	Note 14.8+2
[Editor: Insert “the” before “value”.]	448:15
[Editor: Delete “the”.]	452:4
[Editor: “Note: this” ⇒ “This” since the sentence appears to be normative (else put it in a note box).]	452:12
[The module doesn’t provide the dot product, it provides the function that computes the dot product. Editor: Insert “a function that computes” before “the dot”.]	463:Note 14.14 (cont)

2 Descriptions in active voice or as simple declarations

Most (but not all) of the descriptions in clause 13 are either simple declarations or are in active voice. Make clause 14 consistently one or the other, i.e., eliminate passive voice, preferentially in favor of similar declarations.

[Editor: “Returns the next” ⇒ “Next”.]	452:17
[Editor: “Returns” ⇒ “Return”.]	453:21
[Editor: “Returns” ⇒ “Return”.]	454:3
[Editor: “Controls” ⇒ “Control”.]	455:4

3 Simplify argument descriptions

Some arguments are described “a scalar integer” and others are described more verbosely. Make the verbose ones terse.

[Editor: “scalar ... integer” ⇒ “an integer scalar” thrice.]	454:8-10
[Editor: “scalar ... logical” ⇒ “a default logical scalar or array”.]	454:34+1
[Editor: “scalar ... logical” ⇒ “a default logical scalar or array”.]	455:7+1
[Editor: “scalar ... logical” ⇒ “a default logical scalar or array”.]	456:17+1
[Editor: “of ... array” ⇒ “a real scalar or array”.]	456:32
[Editor: “of ... array” ⇒ “a real scalar or array”.]	457:10
[Editor: “of ... array” ⇒ “a real scalar or array”.]	457:26
[Editor: “scalar and” ⇒ “a scalar”.]	458:6+1
[Editor: “scalar and” ⇒ “a scalar”.]	458:22
[Editor: “of ... array” ⇒ “a real scalar or array”.]	458:35
[Editor: “of ... array” ⇒ “a real scalar or array”.]	459:13
[Editor: “of ... array” ⇒ “a real scalar or array”.]	459:27
[Editor: “of ... array” ⇒ “a real scalar or array”.]	460:5
[Editor: “of ... array” ⇒ “a real scalar or array”.]	460:15

4 If and only if

Several function result descriptions use “if and only if” while others use “true if ... and false otherwise” or a variation thereof. Settle consistently on “if and only if”.

Editor: Replace “if” by “if and only if”, and delete “; and ... false otherwise” or a variation thereof at the following places:

449:0+3-4	449:8+1,9	450:34:451:2	451:10-11	451:21,23	451:31,34	457:2-3	457:13,17	457:29,31
458:11,13	458:26-28	459:3-5	459:16,19	459:30,31	460:8,10	460:18,20	460:21,22	460:26
460:32-33								

5 Questions without answers

Are the types defined by the IEEE modules extensible?	440:21-24
Are other clauses consistent with this paragraph, contradictory to it, or oblivious to it?	445:13-16
It was apparently at least useful to remark on the relation between IEEE_LOGB and EXPONENT at [452:21]. Should the relation between IEEE_NEXT_AFTER and NEAREST be remarked here?	452:25-29
It was apparently at least useful to remark on the relation between IEEE_LOGB and EXPONENT at [452:21]. Should the relation between IEEE_RINT and NINT be remarked here?	453:16-17
It was apparently at least useful to remark on the relation between IEEE_LOGB and EXPONENT at [452:21]. Should the relation between IEEE_SCALB and SCALE be remarked here?	453:30-37
Do we put recommendations in notes?	462:Note 14.13
In the last line of the note, does “reset” mean “signaling” or “not signaling”?	465:Note 14.17