

Subject: Comment on IEEE_VALUE — revision of 06-253
From: Van Snyder

1 Introduction

2 The IEEE Standard allows a processor to convert a signaling NaN to a quiet NaN if it is involved in an
3 operation. This compromises the functionality of IEEE_VALUE. The standard should recommend that
4 producing the function result should not be considered to be an operation.

2 Edits

6 Edits refer to 06-007r1. Page and line numbers are displayed in the margin. Absent other instructions, a
7 page and line number or line number range implies all of the indicated text is to be replaced by associated
8 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after
9 (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

10 It is recommended that the result of IEEE_VALUE is produced in such a way that the processor does 462:10+ New ¶
11 not raise IEEE_INVALID or instantly convert a signaling NaN to a quiet NaN, especially if the reference
12 is an actual argument, an output item, or the *expr* in an assignment statement.

NOTE 14.12a

Depending upon the processor, this may require avoiding use of floating-point registers.
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