Subject: Issue 64 and related stuff
From: Van Snyder
References: 99-127r2

1 Background

The DECIMAL= specifier for formatted data transfer can be specified both in OPEN and data transfer statements, but ROUND= cannot be specified in data transfer statements. This irregularity appears to serve no purpose. On could use round edit specifiers, e.g. RU, but not for a list-directed or namelist data transfer, for which one needs to execute an OPEN statement. An OPEN statement cannot be executed, however, for an internal file.

2 Edits

Edits refer to 99-007r2. 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 the indicated line. Remarks for the editor are noted in the margin, or appear between [and] in the text.

[Editor: Add "from the initial OPEN statement for a file, or if the file is preconnected" after "omitted".] 194:10

[Editor: Add "If the file is already open and this specifier is omitted, the rounding mode is unchanged." after the end of the sentence.] 194:11

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or ROUND = *scalar-default-char-expr* 196:20+

Constraint: A ROUND= specifier shall not be specified in an unformatted data transfer statement. 197:3+

[Editor: Delete.] 197:25-31

[Editor: Add a new section after 9.5.1.9.] 200:9+

9.5.1.10 Round specifier

The *scalar-default-char-expr* shall evaluate to one of UP, DOWN, ZERO, NEAREST or PROCESSOR_DEFINED. The ROUND= specifier specifies the initial rounding mode for execution of the data transfer statement. The ROUND= specifier values correspond to edit descriptors RU, RD, RZ, RN, and RP, respectively. If no ROUND= specifier appears in the *io-control-spec-list*, the initial rounding mode is that established by the open statement (9.4.4.13); an internal file or a preconnected file that has not been opened is treated as if the file had been opened with no ROUND= specifier (9.4.4.13).

Most of the paragraph headings that describe specifiers in 9.4.4 are of the form "SPECIFIER= in an OPEN statement," while the paragraph headings in section 9.4.1 aren't. Is this inconsistency intentional?	*Note to J3*