138:12-13

138:15+

Subject:Specs, syntax and edits for pointer function reference as assignment LHSFrom:Van SnyderReference:WG5/N1626-UK-008, 05-211

1 **1** Detailed specification

2 Allow the left-hand side of an assignment statement to be a function reference whose result is an asso-3 ciated pointer. The value of the expression is assigned to the target of the pointer.

4 2 Syntax

5 Add *expr* as an alternative left-hand side for an assignment statement.

6 3 Edits

18

7 Edits refer to 04-007. Page and line numbers are displayed in the margin. Absent other instructions, a

8 page and line number or line number range implies all of the indicated text is to be replaced by associated

9 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after

10 (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

[Editor: In 4.5.5.2 When finalization occurs, in the paragraph beginning "When an intrinsic assignment 59:33-34
 ...," replace both instances of "variable" by "assigned variable".]

13	[Editor: Near the end of 6.3.3.1 Deallocation of allocatable variables , in the paragraph beginning 116:12
14	"When an intrinsic assignment," replace "variable" by "assigned variable".]

15 [Editor: Replace assignment-stmt (R734) and its associated constraint:]

variable

- 16 R734 assignment-stmt is assigned-variable = expr
- 17 R734 $\frac{1}{2}$ assigned-variable is
 - or *expr*
- 19 C715 $(R734\frac{1}{2})$ The variable shall not be a whole assumed-size array.

20 C715 $\frac{1}{2}$ (R734 $\frac{1}{2}$) The *expr* shall be a reference to a function whose result is a pointer.

21 [Editor: Add a final paragraph in **7.4.1.1 General form**:]

The **assigned variable** in an assignment statement is *variable* or the target of the result of *expr*. The result of the function reference shall be an associated pointer.

24[Editor: At the end of the first paragraph and in its numbered list in 7.4.1.2 Intrinsic assignment138:18-2125statement, "variable" \Rightarrow "the assigned variable" all five times.]139:1

26 [Editor: In the heading and body of Table 7.8, "variable" \Rightarrow "the assigned variable" all four times.] 139:2+

27 [Editor: In the three paragraphs immediately following Table 7.8 in **7.4.1.2 Intrinsic assignment state**- 139:3-12 28 **ment** "variable" \Rightarrow "the assigned variable" all seven times.]

29 [Editor: In the first paragraph in 7.4.1.3 Interpretation of intrinsic assignment statements, replace] 139:15-19

- the first instance [139:15] of "variable" by "assigned-variable",
- the second and third instances [139:16] of "variable" by "the assigned variable".
- the fourth instance [139:17] of "variable" by "assigned-variable".
- the fifth instance [139:18] of "variable" by "the assigned variable" and the sixth instance [also 139:18] by "assigned-variable".
- the seventh and eight instances [139:19] of "variable" by "the assigned variable".

8 November 2005

1 2	[Editor: In the second paragraph in 7.4.1.3 Interpretation of intrinsic assignment statements , replace both instances of " <i>variable</i> " by "the assigned variable".]	139:21
3 4	[Editor: In the third paragraph in 7.4.1.3 Interpretation of intrinsic assignment statements , replace all three instances of " <i>variable</i> " by "the assigned variable".]	139:22-23
5 6	[Editor: In the paragraph immediately after Note 7.35, replace the first instance of "variable" by "assigned-variable" and the second instance by "the assigned variable".]	140:1
7 8	[Editor: In the first paragraph after Note 7.36, replace both instances of "variable" by "the assigned variable".]	140:2-3
9 10	[Editor: In the second paragraph after Note 7.36, replace both instances of "variable" by "the assigned variable".]	140:4-5
11 12	[Editor: In the first paragraph after Note 7.38, replace both instances of "variable" by "the assigned variable".]	141:1-3
13 14	[Editor: In the heading of Table 7.9, replace "variable" by "assigned variable". In the body, replace "variable" by "assigned-variable" all three times.]	141:3+2-5
15 16	[Editor: In the first paragraph after Table 7.9, replace both instances of "variable" by "the assigned variable".]	141:4-5
17 18	[Editor: In the second paragraph after Table 7.9, and its numbered list, replace "variable" by "the assigned variable" six times.]	141:6-11
19 20	$[\text{Editor: In the third paragraph after Table 7.9, replace first two instances of "variable" by "the assigned variable".]$	141:12-13
21 22	[Editor: In the third paragraph after Table 7.9, replace the third instance of "variable" by "assigned-variable".]	141:13
23 24	[Editor: In the first paragraph after Note 7.39, and its numbered list, replace "variable" by "the assigned variable" all four times.]	141:14-23
25	[Editor: In Note 7.41 replace "variable" by "the assigned variable".]	142:0+6
26 27	[Editor: In the first paragraph after Note 7.41, replace both instances of "variable" by "the assigned variable".]	142:1-2
28 29	[Editor: In the second paragraph in 7.4.1.5 Interpretation of defined assignment statements replace all three instances of " <i>variable</i> " by "the assigned variable".]	142:27-30
30 31	[Editor: In the third paragraph after Note 7.46, replace the first instance [147:19] of "variable" by "assigned-variable" and the second [147:23] by "assigned variable,".]	147:19, 23
32	[Editor: In the fourth paragraph after Note 7.46, replace "variable" by "assigned-variable".]	147:24
33 34	[Editor: Near the end of 7.4.3.2 Interpretation of masked array assignments , in the paragraph beginning "When a <i>where-assignment-stmt</i> ," replace " <i>variable</i> " by "the assigned variable".]	148:5
35	[Editor: Immediately after C739, insert]	149:12+
36	C739 $\frac{1}{2}$ (R757) The assigned-variable in an assignment-stmt shall be a variable.	
37 38	Editor: In the third item in the enumerated list in C1272 — the one beginning "In a pure subprogram" — in 12.6 Pure procedures , replace "variable" by "assigned variable".]	286:31
39 40	[Editor: In the first item in the numbered list in 16.5.5 Events that cause variables to become defined replace both instances of "variable that precedes the equals" by "assigned variable".]	420:11-13
41	[Editor: In Note 16.19 at the end of 16.5.6 Events that cause variables to become undefined replace	423:28+2-3

8 November 2005

425:26 +

425:27

- 1 "variable that precedes the equals" by "assigned variable".]
- 2 [Editor: Add the following glossary item:]
- 3 assigned variable (7.4.1.1): The variable on the left side of an assignment statement, or the target of
- 4 the pointer result of the function reference on the left side of an assignment statement.
- 5 [Editor: Revise the glossary item for assignment statement:]
- assignment statement (7.4.1.1): A statement that evaluates an expression and assigns its value to a
 variable.

8 4 Conflict resolution with 05-014

9 In the edits from paper 05-198r1:

- for [138:18] "<variable>" \Rightarrow "the assigned variable" in the replacement.
- for [139:1] "<variable>" \Rightarrow "the assigned variable".
- for [139:3-] "<variable>" \Rightarrow "the assigned variable" four times.
- for [139:23] "<variable>" \Rightarrow "the assigned variable" in the replacement.