Subject: First draft of edits to allow a POINTER function result as the LHS of an assignment
From: Van Snyder
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1   Edits

Edits refer to 04-007. 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: In **4.5.5.2 When finalization occurs**, in the paragraph beginning "When an intrinsic assignment ...," replace both instances of "*variable*" by "assigned variable (7.4.1.1)" — but with the cross reference only on the first.]   59:33-34

[Editor: Near the end of **6.3.3.1 Deallocation of allocatable variables**, in the paragraph beginning "When an intrinsic assignment ...," replace "*variable*" by "assigned variable (7.4.1.1)".]   116:12

[Editor: Replace *assignment-stmt* (R734) and its associated constraint:]   138:12-13

R734   *assignment-stmt*   **is**   *assignment-lhs = expr*

R734$\frac{1}{2}$ *assignment-lhs*   **is**   *variable*
                                   or   *function-reference*

C715   (R734$\frac{1}{2}$) The *variable* shall not be a whole assumed-size array.

C715$\frac{1}{2}$ (R734$\frac{1}{2}$) The *function-reference* shall be a reference to a function for which the result has the POINTER attribute. If the result is of type CHARACTER the length shall not be assumed.

[Editor: Add a final paragraph in **7.4.1.1 General form**:]   138:15+

The **assigned variable** in an assignment statement is *variable* or the target of the result of *function-reference*.

[Editor: At the end of the first paragraph and in item (1) in the numbered list in **7.4.1.2 Intrinsic assignment statement**, "*variable*" ⇒ "*assignment-lhs*" twice.]   138:18-19

[Editor: Replace the second "*variable*" in item (2) in the numbered list in **7.4.1.2 Intrinsic assignment statement** by "*assignment-lhs*".]   138:21

[Editor: In item (3) in the numbered list in **7.4.1.2 Intrinsic assignment statement** and the heading of Table 7.8, "*variable*" ⇒ "*assignment-lhs*" twice.]   139:1-2

[Editor: In the three paragraphs immediately following Table 7.8 in **7.4.1.2 Intrinsic assignment statement** replace every instance of "*variable*" by "*assignment-lhs*".]   139:3-12

[Editor: In the heading for Table 7.9 and every normative paragraph in **7.4.1.3 Interpretation of intrinsic assignment statements** other than the third and last ones, replace every instance of "*variable*" by "*assignment-lhs*".]   139:14-21, 140:1-141:27

[Editor: In the second paragraph in **7.4.1.5 Interpretation of defined assignment statements** replace every instance of "*variable*" by "*assignment-lhs*".]   142:27-30

[Editor: Near the end of **7.4.3.2 Interpretation of masked array assignments**, in the paragraph beginning "When a *where-assignment-stmt*...," replace "*variable*" by "assigned variable (7.4.1.1)".]   148:5

[Editor: In the second paragraph of **7.4.4.2.3 Execution of the FORALL body constructs** — the first one beginning "Execution of a *forall-assignment-stmt*..." — replace the first instance of "*variable*" by "*assignment-lhs*" and replace the second instance by "assigned variable (7.4.1.1)".]   151:14-17

[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 "*assignment-lhs*".]   286:31

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1 [Editor: In the first item in the numbered list in **16.5.5 Events that cause variables to become defined** 420:11-13
2 replace both instances of "variable that precedes the equals" by "assigned variable (7.4.1.1)".]

3 [Editor: In Note 16.19 at the end of **16.5.6 Events that cause veriables to become undefined** replace 423:28+2-3
4 "variable that precedes the equals" by "assigned variable (7.4.1.1)".]

5 [Editor: Add the following glossary item:] 425:26+
6 **assigned variable** (7.4.1.1): The variable on the left side of an assignment statement, or the target of
7 a pointer result of a function reference on the left side of an assignment statement.

8 [Editor: Revise the glossary item for **assignment statement**:] 425:267
9 **assignment statement** (7.4.1.1): A statement of the form "variable = expression" or "function-
10 reference = expression", in which the result of the referenced function has the POINTER attribute.