Subject: Edits to allow a polymorphic allocatable *variable* in intrinsic assignment
From: Van Snyder
Reference: 04-354r1, 04-392, WG5/N1626-J3-022

1 Detailed Specification

Allow a polymorphic allocatable variable in intrinsic assignment. Require *expr* to have the same rank as a polymorphic *variable*. If *variable* is allocated and polymorphic, and has a different dynamic type from the *expr*, deallocate it (as we do now if any bounds or length type parameters differ). Then allocate it with the same dynamic type, type parameters and bounds as *expr*.

2 Syntax

No new syntax is required.

3 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: At the end of the first paragraph of **7.4.1.2 Intrinsic assignment statement**, replace "*variable* shall not be polymorphic" by "if *variable* is polymorphic it shall be allocatable".] 138:18

[Editor: At the beginning of item (3) of the numbered list in **7.4.1.2 Intrinsic assignment statement**, replace "The" by "If *variable* is polymorphic it shall be type compatible with *expr* and have the same rank. Otherwise the".] 139:1

[Editor: In the first line of the "derived type" row of Table 7.8, delete "and kind type parameters" and the semicolon. Then delete the last three lines of Table 7.8 (which reappear in the next edit).] 139:2+8-11

[Editor: Insert a fourth item in the the numbered list in **7.4.1.2 Intrinsic assignment statement**:] 139:3-

(4) If *variable* is of derived type each length type parameter of *variable* shall have the same value as the corresponding type parameter of *expr* unless *variable* is allocatable and its corresponding type parameter is deferred, and each kind type parameter of *variable* shall have the same value as the corresponding type parameter of *expr*.

[Editor: In the third paragraph of **7.4.1.3 Interpretation of intrinsic assignments** — the one beginning "If *variable* is an allocated . . . " — replace "or" by a comma; insert ", or if the dynamic type of *variable* and *expr* differ" after "differ".] 139:23

[Editor: Later in the same paragraph, delete the instance of "and" before "with each lower bound . . . ".] 139:25

[Editor: At the end of the same paragraph, insert ", and with the same dynamic type as *expr*" after "LBOUND(*expr*)".] 139:26