

Subject: Disassociated or deallocated actual argument associated with nonpointer nonallocatable optional dummy argument is considered not to be present
 From: Van Snyder
 Reference: J3-016, 03-258r1, section 2.4.3.1, 04-178, 04-385

1 Detailed Specification

2 Allow to associate a deallocated allocatable actual argument, or a disassociated pointer actual argument,
 3 with an optional nonpointer nonallocatable dummy argument, in which case the dummy argument is
 4 considered to be absent. In Fortran 2003, this is an error.

2 Syntax

6 No new syntax is required.

3 Edits

8 Edits refer to 04-007. Page and line numbers are displayed in the margin. Absent other instructions, a
 9 page and line number or line number range implies all of the indicated text is to be replaced by associated
 10 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after
 11 (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

12 (xx) A disassociated pointer actual argument or a deallocated allocatable actual argument can xiii
 13 be associated with a nonpointer nonallocatable optional dummy argument, in which case
 14 the dummy argument is assumed not to be present.

15 [This edit modifies a paragraph deleted by 05-210r2: Replace first “the” by “a nonoptional”. Instead 269:20
 16 make the same edit in the new paragraph to be inserted after [268:15].]

17 [This edit modifies a paragraph deleted by 05-210r2. Insert a new sentence at the end of the paragraph:] 269:22
 18 If an optional dummy argument that is not a pointer is associated with a pointer actual argument, the
 19 pointer association status of the actual argument shall not be undefined.

20 [Instead, insert the above sentence after the end of the paragraph to be inserted after [268:15].]

21 [Replace first “the” by “a nonoptional” and insert “corresponding” after second “the”.] 269:23

22 [Replace “A dummy” by “An optional dummy” and “a dummy” by “an optional dummy”.] 272:26

23 [Delete “or”.] 272:28

24 [Replace period by “, or”.] 272:29

25 (3) does not have the ALLOCATABLE or POINTER attribute and is associated with an actual 272:29+
 26 argument that

27 (a) has the ALLOCATABLE attribute and is not allocated, or

28 (b) has the POINTER attribute and is disassociated.

4 History

30 m170 04-385