Subject:Edits to allow optional arguments for defined operations – to show how easy it would beFrom:Van SnyderReference:04-169

1 Although the edits proposed here reference 03-007r2, they are intended for the next revision of the 2 standard, not the FCD. They would allow procedures that define operations or assignment to have 3 optional arguments in addition to the arguments necessary to satisfy the requirements for the operation 4 or assignment. The primary purpose in offering these edits is to illustrate the simplicity of the necessary 5 modifications to the standard. The effect on implementations may primarily be in removing exceptions 6 to the general structure of generic resolution and procedure invocation.

## 7 **1 Edits**

8 Edits refer to 03-007r2. 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.

10	(before) the indicated line. Remarks are noted in the margin, or appear between [ and ] in the text.	
12	[Editor: Delete. This will change the item number at [122:8] to (1).]	122:6-7
13 14 15	(2) The function satisfies the requirements in 12.4.4.1 necessary for it to be referenced with one actual argument $x_2$ associated with its first dummy argument. The first dummy argument shall have INTENT(IN).	122:13+
16	[Editor: Delete. Covered by 12.4.1.2.]	122:14-19
17	[Editor: Delete. This will change the item number at [122:25] to (1).]	122:23-24
18 19 20	(2) The function satisfies the requirements in 12.4.4.1 necessary for it to be referenced with two actual arguments $x_1$ and $x_2$ associated with its first two dummy arguments. The first two dummy arguments shall have INTENT(IN).	122:30+
21	[Editor: Delete. Covered by 12.4.1.2.]	122:31-38
22	[Editor: Delete. This will change the item number at [142:11] to (1).]	142:9-10
23 24	(2) The subroutine satisfies the requirements in 12.4.4.1 necessary for it to be referenced with two actual arguments $x_1$ and $x_2$ associated with its first two dummy arguments.	142:16+
25	[Editor: Delete. Covered by 12.4.1.2.]	142:17-24
26 27 28 29 30 31	If OPERATOR is specified in a generic specification, all of the procedures specified in the generic interface shall be functions that may be referenced as defined operations (7.1.3, 7.1.8.7, 7.2, 12.4). The function result shall not have assumed character length. If the operator is an <i>intrinsic-operator</i> (R310), the number of nonoptional function arguments shall not exceed a number that is consistent with the intrinsic uses of that operator, and the types, kind type parameter values, or ranks of the dummy arguments shall differ from those required for the intrinsic operation (7.1.2).	262:4-12
32	Each of these subroutines shall have at least two dummy arguments. Dummy arguments after the second,	263:6

33 if any, shall be optional.