

1 **Replace IOSTAT_END and IOSTAT_EOR with Functions**

2 To: J3
3 From: Craig Dedo
4 Subject: Replace IOSTAT_END and IOSTAT_EOR with Functions
5 Date: March 31, 2003

6 Edits refer to 02-007r3.

7 [3:20+] Add the list item:

8 (3) This standard allows more than one value to indicate an end-of-file or end-of-record condition.

9 [201:21-22] Change “the value ... argument” to “a negative integer value to the IOSTAT
10 argument that would cause the result value of the IS_IOSTAT END intrinsic
11 function (13.7.54a) to be true”.

12 [201:23] Change “the value ... iostat” to “a negative integer value to the IOSTAT argument that
13 would cause the result value of the IS_IOSTAT EOR intrinsic function (13.7.54b) to be
14 true”.

15 [216:12-15] Replace the existing text in list items (3) and (4) with the following:

16 (3) With a processor-dependent negative integer value that would cause the result value of the
17 IS_IOSTAT END intrinsic function (13.7.54a) to be true if an end-of-file condition occurs
18 and no error condition occurs, or

19 (4) With a processor-dependent negative integer value that would cause the result value of the
20 IS_IOSTAT EOR intrinsic function (13.7.54b) to be true if an end-of-record condition occurs
21 and no error condition or end-of-file condition occurs. This value shall be different from any
22 value that causes the result value of the IOSTAT END intrinsic function (13.7.54b) to be
23 true.

24 [294:7+] Add the following entries to the table in section 13.5.17:

25 IS_IOSTAT_END (I) Test for end-of-file status
26 IS_IOSTAT_EOR (I) Test for end-of-record status

27 [319:27+] Add the following:

28 **13.7.54a IS_IOSTAT END (I)**

29 **Description.** Determine whether the argument value indicates an end-of-file condition.

30 **Class.** Elemental function

31 **Argument.** I shall be of type integer.

32 **Result Characteristics.** Default logical.

33 **Result Value.** The result has the value true if and only if I is a value that could be assigned to the
34 *scalar-int-variable* in an IOSTAT= specifier to indicate an end-of-file condition (9.10.2).

35 **13.7.54b IS_IOSTAT EOR (I)**

36 **Description.** Determine whether the argument value indicates an end-of-record condition.

37 **Class.** Elemental function

38 **Argument.** I shall be of type integer.

1 **Result Characteristics.** Default logical.

2 **Result Value.** The result has the value true if and only if I is a value that could be assigned to the
3 *scalar-int-variable* in an IOSTAT= specifier to indicate an end-of-record condition (9.10.3).

4 [354:2-4] Replace the paragraph with, “The default integer scalar constant IOSTAT_END is a
5 processor-dependent negative integer value that would cause the result value of the
6 IS_IOSTAT_END intrinsic function (13.7.54a) to be true.”.

7 [354:6-9] Replace the paragraph with, “The default integer scalar constant IOSTAT_EOR is a
8 processor-dependent negative integer value that would cause the result value of the
9 IS_IOSTAT_EOR intrinsic function (13.7.54b) to be true. This value shall be different
10 from any value that causes the result value of the IS_IOSTAT_END intrinsic function
11 (13.7.54a) to be true.”.

12 [354:9+] Add the following note.

13 **Note 13.18a**

14 The processor may provide more than one value that causes IS_IOSTAT_END or IS_IOSTAT_EOR
15 to be true.

16 [451:32] Change “the value . . . module” to “a value that would cause the result value of the
17 IS_IOSTAT_EOR intrinsic function (13.7.54b) to be true”.]

18 **References**

19 02-007r2, Fortran 2000 Draft

20 [End of J3 / 03-103r1]