To: J3
From: Van Snyder
Subject: Two more parameters to put in the ISO_FORTRAN_ENV module

1   Background

It is at present difficult to determine the IOSTAT values that signal end-of-file and end-of-record. It would be useful if these values were available from the ISO_FORTRAN_ENV module.

2   Specifications

Provide two scalar parameters of default integer type from the intrinsic module ISO_FOR-TRAN_ENV: IOSTAT_END and IOSTAT_EOR.

3   Edits

Edits refer to 99-007r1. 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 immediately following text, while a page and line number followed by + indicates that immediately following text is to be inserted after the indicated line. Remarks for the editor are noted in the margin, or appear between [and] in the text.

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(3) With the processor-dependent negative integer value of the constant IOSTAT_END of the   226:28-32
     intrinsic module ISO_FORTRAN_ENV (13.17.2) if an end-of-file condition occurs and no
     error condition occurs, or

(4) With the processor-dependent negative integer value of the constant IOSTAT_EOR of the
     intrinsic module ISO_FORTRAN_ENV (13.17.2) if an end-of-record condition occurs and
     no error condition or end-of-file condition occurs.

[Correct and change to active voice:]   360:23-34
The processor shall provide three constants giving processor-dependent values for preconnected units (9.4).

[Editor: Replace "parameter" by "constant" once on each line.]   360:26, 29,
                                                                    32

[Editor: Insert a new section 13.17.2.]   360:34+

13.17.2: Input/output status values

The processor shall provide two constants giving processor-dependent values for end-of-file and end-of-record input/output status (9.9.1).

13.17.2.1 IOSTAT_END

The value of the default integer scalar constant IOSTAT_END is assigned to the variable specified in an IOSTAT= specifier if an end-of-file condition occurs during execution of an input/output statement and no error condition occurs. This value shall be negative.

13.17.2.2 IOSTAT_EOR

The value of the default integer scalar constant IOSTAT_EOR is assigned to the variable specified in an IOSTAT= specifier if an end-of-record condition occurs during execution of an input/output statement and no error or end-of-file condition occurs. This value shall be negative and different from the value of IOSTAT_END.