Date: 21 March 1999
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: END_IOSTAT and EOR_IOSTAT.

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 value given by the END_IOSTAT parameter from the intrinsic module ISO_FOR-   226:28-32
     TRAN_ENV (13.17.2) if an end-of-file condition occurs and no error condition occurs, or

(4) With the value given by the EOR_IOSTAT parameter from the intrinsic module ISO_FOR-
     TRAN_ENV (13.17.2) if an end-of-record condition occurs and no error condition or end-
     of-file condition occurs.

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

13.17.2: Standard values for input/output status

Two parameters giving processor-dependent values for end-of-file and end-of-record input/output
status (9.9.1) shall be provided by the processor.

13.17.2.1 END_IOSTAT

The value of the default integer scalar parameter END_IOSTAT 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 EOR_IOSTAT

The value of the default integer scalar parameter EOR_IOSTAT 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 END_IOSTAT.