Subject: On Walt's observations about `eof, err, eor` arguments of DTIO procedures
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1 Introduction

Walt observed that the `IOSTAT` keyword is considered to be a more modern way to report exceptional events during input/output. It would also be simpler to describe the DTIO procedures, and probably simpler to write them, if they had a single `iostat` argument instead of the three `eof, err` and `eor` arguments.

2 Edits

Edits refer to 02-007. 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 associated text, while a page and line number followed by + (-) indicates that associated text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

[Editor: "`eof, err, eor`" ⇒ "`iostat`" 191:25

```
            INTEGER, INTENT(OUT) :: iostat
```
192:5

[Editor: "`eof, err, eor`" ⇒ "`iostat`" 192:13

```
            INTEGER, INTENT(OUT) :: iostat
```
192:17

[Editor: "`err`" ⇒ "`iostat`" 192:26

```
            INTEGER, INTENT(OUT) :: iostat
```
192:33

[Editor: "`err`" ⇒ "`iostat`" 192:41

```
            INTEGER, INTENT(OUT) :: iostat
```
192:45

The `iostat` argument is used to report whether an error, end-of-record, or end-of-file condition (9.9) occurs. If an error condition occurs, the user-defined derived-type input/output procedure shall assign a positive value to the `iostat` argument. Otherwise, if an end-of-file condition occurs, the user-defined derived-type input procedure shall assign the value of the named constant IOSTAT_END (13.8.3.2.1) to the `iostat` argument. Otherwise, if an end-of-record condition occurs, the user-defined derived-type input procedure shall assign the value of the named constant IOSTAT_EOR (13.8.3.2.2) to `iostat`. Otherwise, the user-defined derived-type input/output procedure shall assign the value zero to the `iostat` argument. 194:3-10

If the user-defined derived-type input/output procedure returns a nonzero value for the `iostat` argument, the

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[Editor: "`err`... true" ⇒ "`iostat` argument of the user-defined derived-type input/output procedure has a nonzero value".] 194:13-14