

Issue 305 - Connection Properties in Annex C

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2 To: J3
3 From: Craig Dedo
4 Date: January 3, 2001
5 Subject: Issue 305 - Connection Properties in Annex C

Issue

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7 Paper 00-323r3 added a bunch of new connection properties (modes) but did not make
8 corresponding changes in the Annex, including at least C.6.4 and C.6.5. Also, the terminology used
9 for these in Annex C is different from that now used in the normative text (properties vs. modes).

Edits

10 Edits are with respect to the 01-007.

12 [169:1-6] Delete J3 internal note.

13 [437:17,19] Add "or modes" after "properties".

14 [437:36-40] Change "property" to "mode" in 6 places.

15 [437:44] Change "properties" to "modes".

16 [437:42] Add "any BLANK= specifier in a data transfer statement or" before "any BN or BZ".

17 [437:44-46] Indent the paragraph consistent with the other paragraphs in the itemized list.

18 [437:46+] Add the following text.

19 (5) A character string delimiter mode, which is APOSTROPHE, QUOTE, or NONE, is established
20 for a connection for which the form is formatted. This mode has no effect on input. This mode
21 affects list-directed and namelist output for this connection. The delimiter mode of the
22 connection is effective at the beginning of each formatted output statement. During execution
23 of the statement, any DELIM= specifier in a data transfer statement may temporarily change
24 the delimiting of the output of character variables (9.4.4.9).

25 (6) A record padding mode, which is YES or NO, is established for a connection for which the form
26 is formatted. This mode has no effect on output. This mode affects all input for this connection.
27 The pad mode of the connection is effective at the beginning of each formatted input statement.
28 During execution of the statement, any PAD= specifier in a data transfer statement may
29 temporarily change the padding rule for the record (9.4.4.10).

30 (7) A floating point rounding mode, which is UP, DOWN, ZERO, NEAREST, COMPATIBLE, or
31 PROCESSOR_DEFINED, is established for a connection for which the form is formatted. This
32 mode has effect for both input and output. The rounding mode of the connection is effective at
33 the beginning of each formatted input or output statement. During execution of the statement,
34 any ROUND= specifier in a data transfer statement or any RU, RD, RZ, RN, RC, or RP edit
35 descriptors encountered may temporarily change the method of rounding floating point
36 values (9.4.4.13).

37 (8) A sign presence mode, which is PLUS, SUPPRESS, or PROCESSOR_DEFINED, is established
38 for connection for which the form is formatted. This mode has no effect on input. This mode

1 affects all output for this connection. The sign mode of the connection is effective at the
2 beginning of each formatted output statement. During execution of the statement, any SIGN=
3 specifier in a data transfer statement or any SP, SS, or S edit descriptors encountered may
4 temporarily change the presence of the sign (9.4.4.14).

5 The states of I/O modes are determined according to the following hierarchical rules of
6 precedence.

7 1. The initial state for a mode is established by the most recently executed OPEN statement on
8 that unit. The modes for an internal file or pre-connected file have the same initial states that
9 would be established if an OPEN statement was executed and the corresponding keyword was
10 absent.

11 2. The state of a mode established by an OPEN statement may be temporarily changed by a
12 corresponding keyword in a data transfer statement, during the execution of that data transfer
13 statement.

14 3. The state of a mode established by an OPEN statement or a data transfer statement may be
15 temporarily changed by a format edit descriptor.

16 The modes in effect immediately before a data transfer statement is executed are restored when
17 the data transfer statement terminates.

18 A child data transfer statement in a user-defined derived-type input/output statement inherits
19 the states of the modes in effect in the parent data transfer statement.

20 [439:37+] Add a row to Table C.1:

21 SIGN=	UNDEFINED	PROCESSOR_DEFINED, PLUS, SUPPRESS, or UNDEFINED	UNDEFINED
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22 References

23 01-007, Fortran 2000 Draft

24 01-102, Changes to list of unresolved issues

25 [End of J3 / 01-108]