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TECHNICAL CORRIGENDUM 1

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Information technology — Programming languages — Fortran —

Part 1: Base language

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Langages de programmation — Fortran

Partie 1: Langage de base

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 1539-1:2004 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 22, *Programming languages, their environments and system software interfaces.*

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In 4.5.3.3, Add the following sentence at the end of constraint C453:
It shall not have the VALUE attribute.

In the fifth paragraph of 4.5.5.2, replace "first executable statement" by "executable constructs".

In 4.5.5.2, add the following paragraph after the fifth paragraph:
If a specification expression in a scoping unit references a structure constructor, the entity created by the structure constructor is finalized before execution of the executable constructs in the scoping unit.

In 5.1, add the following sentence at the end of constraint C509:
It shall not have the VALUE attribute.

In 5.1.2.5.1, constraint C542, replace "a dummy argument, a function result, or an automatic array of a procedure" by "declared only in a subprogram or interface body".

In 5.1.2.5.1, in the paragraph following constraint C542, after "subprogram" add "or interface body".

In 6.3.1, constraint C625, after "unlimited polymorphic" add "or is of abstract type".

In 6.3.3.1, in the second paragraph following Note 6.24, replace "first executable statement" by "executable constructs".

In 7.1.6, add the following paragraph immediately before Note 7.10:
If a specification expression in a module includes a reference to a generic, that generic shall have no specific procedures defined in the module subsequent to the specification expression.

In 7.1.7, add the following paragraph immediately before Note 7.11:
If an initialization expression in a module includes a reference to a generic, that generic shall have no specific procedures defined in the module subsequent to the initialization expression.

In the first paragraph of 7.4.1.3, replace "the evaluation of all operations in expr and variable" with "the evaluation of expr and the evaluation of all expressions in variable".

In 7.4.1.3, in list item (2) of the paragraph immediately following Note 7.39, insert "the value of" before each occurrence of "expr".

In the first paragraph of 8.1.4.3, delete ", TARGET,".

In the first paragraph of 8.1.4.3, after "the attribute.", insert the following sentence:
The associating entity has the TARGET attribute if and only if the selector is a variable and has either the TARGET or POINTER attribute.

In the eighth paragraph of 9.5.3.4.2, replace "input item and its corresponding data edit descriptor" by "effective input item and its corresponding data edit descriptors".

In list item (1) of 9.10.3, replace "input list item (9.5.3.4.2) and corresponding data edit descriptor that requires" by "effective input item (9.5.2) and its corresponding data edit descriptors that require".

In 12.3.2.5, change "referenced" to "invoked".

In 12.4, insert the following constraint after C1224:
C1224a (R1219) If data-ref is an array, the referenced type-bound procedure shall have the PASS attribute.

In 12.4.1.1, after "procedure", insert ", or a procedure pointer component,".

In the first paragraph of 12.4.1.2, before "the declared type of the actual argument", insert "either both the actual and dummy argument shall be unlimited polymorphic, or".

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In 12.4.1.2, in the paragraph following Note 12.22, replace "associated with an actual argument that is" by "used as an actual argument that is associated with".

In 12.4.4.1, add the following list item at the end of the subclause:

(5) If (1), (2), (3), and (4) do not apply, the name is that of an intrinsic procedure, and the reference is consistent with the interface of that intrinsic procedure, then the reference is to that intrinsic procedure.

In 13.3, delete the last sentence of the subclause, "In particular ... processor dependent.".

In 13.7.37, in the Result Value paragraph of the subclause, replace "model representation (13.4) for the value of X" by "representation for the value of X in the model (13.4) that has the radix of X but no limits on exponent values".

In 13.7.40, in the Result Value paragraph of the subclause, replace "model representation of X" by "representation for the value of X in the model that has the radix of X but no limits on exponent values".

In 13.7.100, in the Result Value paragraph of the subclause, replace "model representation of X" by "value nearest to X in the model for real values whose kind type parameter is that of X; if there are two such values, the value of greater absolute value is taken".

In 13.7.107, in the Result Value paragraph of the subclause, replace "model representation of X" by "representation for the value of X in the model that has the radix of X but no limits on exponent values".

In 13.7.113, in the Result Value paragraph of the subclause, replace "model representation of X" by "value nearest to X in the model for real values whose kind type parameter is that of X; if there are two such values, the value of greater absolute value is taken".

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