INTERNATIONAL STANDARD ISO/IEC 1539-1:2004

TECHNICAL CORRIGENDUM 2

Published 2007-02-01

Information technology — Programming languages — Fortran —

Part 1:
Base language

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Langages de programmation — Fortran —

Partie 1: Langage de base

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 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.*

ICS 35.060

Ref. No. ISO/IEC 1539-1:2004/Cor.2:2007(E)

Published in Switzerland

Subclause 4.4.1
In the third line of the first paragraph of the subclause, before the sentence beginning "The kind type parameter..." insert the following sentence.
The kind type parameter is of type default integer.

Subclause 4.4.2
In the fourth line of the first paragraph of the subclause, before the sentence beginning "The kind type parameter..." insert the following sentence.
The kind type parameter is of type default integer.

In the second line of the second paragraph of the subclause, insert "mathematically" before "equivalent".

Subclause 4.4.3
In the fourth line of the second paragraph of the subclause, before the sentence beginning "The kind type parameter..." insert the following sentence.
The kind type parameter is of type default integer.

Subclause 4.4.4
In the third line of the first paragraph of the subclause, insert "its kind is processor-dependent and" before "its value".

In the third line of the second paragraph of the subclause, before the sentence beginning "The kind type parameter..." insert the following sentence.
The kind type parameter is of type default integer.

Subclause 4.4.4.1
In constraint C416, in the second line of list item (3), delete "or".

In constraint C416, add the following new list item immediately after item (3).
(3.5)   in the *type-spec* or *derived-type-spec* of a type guard statement (8.1.5), or

In the final paragraph of the subclause, add the following new list item immediately after item (3).
(3.5)   If used in the *type-spec* of a type guard statement, the associating entity assumes its length from the selector.

Subclause 4.4.5
In the second line of the second paragraph of the subclause, before the sentence beginning "The kind type parameter..." insert the following sentence.
The kind type parameter is of type default integer.

Subclause 4.5.3
Following constraint C447, add the following new constraint.
C447a   (R440) If *component-initialization* appears, every type parameter and array bound of the component shall be an initialization expression.

Subclause 4.5.5.2
In the first line of the fourth paragraph of the subclause, after the first occurrence of "structure constructor", insert "or array constructor". On the same line, delete the second occurrence of "structure".

In the new sixth paragraph introduced in Technical Corrigendum 1, after the first occurrence of "structure constructor", insert "or array constructor". In the same sentence, delete the second occurrence of "structure".

Subclause 5.1

In the first line of constraint C512, delete ", EXTERNAL".

In the second line of constraint C521, after "dummy procedure" insert ", a procedure pointer".

Replace constraint C536 by the following.

C536   (R501) If the PROTECTED attribute is specified, the INTRINSIC or PARAMETER attribute shall not be specified. If the PROTECTED and EXTERNAL attributes are specified, the POINTER attribute shall also be specified.

Subclause 5.1.2.5.4

In the first line of constraint C544, insert "polymorphic, of a finalizable type, of a type with an ultimate allocatable component, or" before "of a type".

Subclause 5.2

Replace the last sentence of the first paragraph of subclause 5.2 (This also applies ... statements.) by the following.

This also applies to procedure declaration statements, and to EXTERNAL and INTRINSIC statements.

Subclause 5.2.10

Replace constraint C568 by the following.

C568   (R541) The EXTERNAL attribute (5.1.2.6) shall be explicitly specified for a *proc-entity-name*.

Subclause 7.4.2

In the second line of rule R736, replace "*variable %*" by "*scalar-variable %*".

In the first line of constraint C722, replace "*variable*" by "*scalar-variable*".

In rule R741, replace "*variable*" by "*scalar-variable*".

In the second line of constraint C725, replace "*variable*" by "*scalar-variable*".

Subclause 8.1.5.1

In rule R823, replace the line
        or CLASS IS (*type-spec*) [*select-construct-name*]
by the line
        or CLASS IS (*derived-type-spec*) [*select-construct-name*]

In constraint C814, after "*type-spec*", insert "or *derived-type-spec*".

In constraint C815, after "*type-spec*", insert "or *derived-type-spec*".

In the first line of constraint C816, after "*type-spec*", insert "or *derived-type-spec*".

Subclause 9.5.1.3

In the second line of the subclause, replace "this input/output statement" by "a nonchild input/output statement".

In the fourth line of the subclause, replace "from an input/output statement" by "from a nonchild input/output statement".