INTERNATIONAL STANDARD ISO/IEC 1539-1:2004
TECHNICAL CORRIGENDUM 3

Published 2008-11-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

Information technology — Programming languages — Fortran —

Part 1: Base language

TECHNICAL CORRIGENDUM 3

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

Partie 1: Langage de base

RECTIFICATIF TECHNIQUE 3

Technical Corrigendum 3 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.3:2008(E)**

© ISO/IEC 2008 – All rights reserved

Published in Switzerland

Copyright International Organization for Standardization
Provided by IHS under license with ISO
No reproduction or networking permitted without license from IHS

Not for Resale

Subclause 4.5.5
In the last sentence of C473 replace “not be INTENT(OUT)” by “not have the INTENT(OUT) or VALUE attribute”.

Subclause 7.4.1.3
Insert the following sentence at the beginning of the third paragraph of the subclause:

> If *variable* is an unallocated allocatable array, *expr* shall have the same rank as *variable*.

In the second sentence of the third paragraph of the subclause, change “corresponding type parameters of *expr*,” to “corresponding type parameter of *expr*. If *variable* is an array and *expr* is scalar it is allocated with the same bounds as before, otherwise it is allocated”.

Subclause 7.4.2.2
In the fifth paragraph of the subclause, after “the same type”, insert “or both be unlimited polymorphic”.

Subclause 9.5.3.4
After the seventh paragraph of the subclause, “If an internal file has been specified, an input/output list item shall not be in the file or associated with the file.”, add the following two paragraphs:

> During the execution of an output statement that specifies an internal file, no part of that internal file shall be referenced, defined, or become undefined as the result of evaluating any output list item.
>
> During the execution of an input statement that specifies an internal file, no part of that internal file shall be defined or become undefined as the result of transferring a value to any input list item.

Subclause 9.9.1.8
Add to the end of the last sentence of the subclause: “or if the unit specified by UNIT= is not connected to a file”.

© ISO/IEC 2008 – All rights reserved
Copyright International Organization for Standardization
Provided by IHS under license with ISO
No reproduction or networking permitted without license from IHS
Not for Resale

Subclause 9.9.1.9
In the last sentence of the subclause, after "file" insert: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.12
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.16
In the third sentence of the subclause, change "or if" to ", if" and after "condition" insert ", or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.17
Replace the subclause by the following:

> Execution of an INQUIRE by file statement causes the *scalar-int-variable* in the NUMBER= specifier to be assigned the value of the external unit number of the unit that is connected to the file. If there is no unit connected to the file, the value -1 is assigned. Execution of an INQUIRE by unit statement causes the *scalar-int-variable* to be assigned the value specified by UNIT=.

Subclause 9.9.1.21
In the third sentence of the subclause, change "or if" to ", if" and after "conditions" insert ", or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.23
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.24
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.27
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

© ISO/IEC 2008 - All rights reserved
Copyright International Organization for Standardization
Provided by IHS under license with ISO
No reproduction or networking permitted without license from IHS
Not for Resale

Subclause 9.9.1.29
In the second sentence of the subclause, after "determined", insert: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.30
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.31
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 9.9.1.32
Add to the end of the last sentence of the subclause: "or if the unit specified by UNIT= is not connected to a file".

Subclause 10.6.1
Following the numbered list in subclause 10.6.1, add a seventh item:

(7) On output of a real zero value, the digits in the exponent field shall all be zero.

Subclause 10.9.2
At the end of the first paragraph of the subclause, add the following sentence:

> The form of the values produced by a user-defined derived-type output routine invoked during list-directed output is specified by the invoked routine. This form need not be compatible with list-directed input.

Subclause 10.10
Replace the final paragraph of the subclause by the following:

> A value separator for namelist formatting is a value separator for list-directed formatting (10.9), or one or more contiguous blanks between a nonblank value and the following object designator or "!" comment initiator.

Subclause 10.10.2
After "logical values" at the end of the first sentence of the first paragraph of the subclause, add ", and output produced by user-defined derived-type output".

Copyright International Organization for Standardization
Provided by IHS under license with ISO
No reproduction or networking permitted without license from IHS
© ISO/IEC 2008 – All rights reserved
Not for Resale

At the end of the same paragraph add the following two sentences:

> The form of the output produced by a user-defined derived-type output routine invoked during namelist output is specified by the invoked routine. This form need not be compatible with namelist input.

Subclause 12.3.2.1.1
At the end of the second paragraph of the subclause, add the sentence:

> All restrictions and constraints that apply to actual arguments in a reference to the function also apply to the corresponding operands in the expression as if they were used as actual arguments.

Subclause 12.3.2.1.2
In the second paragraph of the subclause, after the penultimate sentence (A defined assignment ... the second argument.), add the sentence:

> All restrictions and constraints that apply to actual arguments in a reference to the subroutine also apply to the left-hand side and to the right-hand side enclosed in parentheses as if they were used as actual arguments.

Subclause 12.5.2.1
Replace subclause C1242 by the following:

> C1242 An elemental procedure shall not have the BIND attribute.

Subclause 14.9.2
In the first paragraph of the subclause replace “for reals X and Y for which IEEE_SUPPORT_DATATYPE(X) and IEEE_SUPPORT_DATATYPE(Y) are true” with “for all reals X and Y”.

Subclause 15.2.3
In the first line of the second paragraph of the subclause, after “A Fortran derived type is interoperable with a C struct type if” insert “and only if”.

--`,,```,,,,````-`-`,,`,,`,`,,`---

© ISO/IEC 2008 - All rights reserved
Copyright International Organization for Standardization
Provided by IHS under license with ISO
No reproduction or networking permitted without license from IHS
Not for Resale