

## ISO/IEC 1539-1:2018 - TECHNICAL CORRIGENDUM 1

*Notes for WG5:—*

*Edits are included in this document from interpretations:—*

*f18/001, f18/002, f18/003, f18/004, f18/006, f18/008, f18/009, f18/010, f18/011, f18/012, f18/013, f18/014, f18/016, f18/017, f18/018.—*

*Interpretations approved without generating edits:—*

*f18/005.—*

*Page and line numbers on the right refer to 18-007r1. They, the interpretation references and notes in italics are for WG5 use only and will be deleted before the document is submitted to ISO. The ISO version of the standard has paragraph numbers but not line numbers.—*

[20:27+]f18/013

### **Subclause 3.145.3**

After the definition of “parent team”, insert a new definition:

#### **3.145.3+**

#### **sibling teams**

teams created by a single set of corresponding executions of the FORM TEAM statement (11.6.9)

[20:30]f18/013

### **Subclause 3.145.4**

In the definition of “team number”, change “within its parent team” to “among its sibling teams”.

[28:16+]f18/001

*The reference in N2176 was given as [26:17+].—*

### **Subclause 4.3.3**

Following the tenth paragraph of the subclause, add a new paragraph:

Fortran 2008 required ACOSH of a complex value to have the imaginary part nonnegative and had no requirement on the real part. This document requires ACOSH of a complex value to have a nonnegative real part and has no such requirement on the imaginary part.

[36:23]f18/0013

### **Subclause 5.3.4**

In the final sentence of the second paragraph of the subclause, replace “Within its parent team,” with “Among its sibling teams,”.

[38:8]f18/004

### **Subclause 5.3.7**

At the end of the first paragraph of the subclause, following “when all images have terminated execution” insert “or failed”.

[80:9]f18/017

### **Subclause 7.5.6.2**

In item (2) of the first paragraph of the subclause, change “All finalizable” to “All nonallocatable finalizable”.

[80:22]f18/017

### **Subclause 7.5.6.3**

In the second sentence of the second paragraph of the subclause, after “unless it is the variable in an intrinsic assignment statement” delete “or a subobject thereof”.

[101:13,14]f18/008

### **Subclause 8.5.8.7**

At the end of constraint C837, after “or VALUE attribute”, insert “, or the associate name of a RANK DEFAULT block in a SELECT RANK construct whose selector has assumed rank”.

[117:18-19]f18/016

#### **Subclause 8.8**

In the second sentence of the second paragraph, replace “interface body for an external or dummy procedure” with “interface body that is not a module procedure interface body”.

[117:25-26]f18/016

In the second sentence of the fourth paragraph, replace “for a nested scoping unit ... procedure” with “for a derived-type definition, internal subprogram, module procedure interface body, module subprogram, or submodule”.

[119:8-9]f18/018

#### **Subclause 8.9**

In constraint C8105, after “PRIVATE attribute” insert “in the local scope”, and change “the *namelist-group-name*” to “its *namelist-group-name*”.

[131:18,19]f18/013

#### **Subclause 9.6**

In the second sentence of the third paragraph of the subclause, replace “one of the teams that were formed by execution of the FORM TEAM statement for” with “a sibling team of”.

[137:28]f18/017

#### **Subclause 9.7.3.2**

In the ninth paragraph of the subclause, replace “that object is finalized” by “any final subroutine for that object is executed”.

[167:8]f18/011

#### **Subclause 10.2.4.4**

In the third paragraph of the subclause, replace “elemental intrinsic procedure even if the pointer object is not elemental.” with “elemental intrinsic procedure, even though the pointer object is not elemental.”

[175:21]f18/003

#### **Subclause 11.1.3.3**

At the end of the fifth paragraph of the subclause, following “variable definition context”, insert “ or a pointer association context”.

[204:35]f18/013

#### **Subclause 11.6.9**

In the first paragraph, change “creates new teams” to “creates a set of sibling teams”.

~~And add index for “sibling team”.~~

[217:11]f18/006

#### **Subclause 12.5.1**

At the end of the first sentence of the fourth paragraph, after “on image 1 in the initial team only (12.6.4.3)” insert “; it is not preconnected on any other image”.

[294:11]f18/002

~~The reference in N2176 was given as [294:11-12].~~

#### **Subclause 15.4.3.4.1**

In the second sentence of the first paragraph, change “procedure pointers, external procedures, dummy procedures, or module procedures” to “nonintrinsic procedures with explicit interfaces”.

[324:1]f18/010

#### **Subclause 15.7**

In the fourth bullet point in the first paragraph of the subclause, replace “specified to be PURE, or” with “specified to be PURE,” and add two new bullet points:

- a procedure pointer that has been specified to be PURE,

- a type-bound procedure that is bound to a pure procedure, or

[325:11-12]f18/011

*This edit has been split into two to clarify the intention.—*

#### **Subclause 15.8.1**

In the first paragraph of the subclause, replace “An elemental procedure is ... an elemental subprogram.” with:

An elemental procedure is

- an elemental intrinsic procedure (16.1),
- a module procedure in an intrinsic module, if it is specified to be elemental,
- a procedure that is defined by an elemental subprogram, or
- a type-bound procedure that is bound to an elemental procedure.

[325:12+]f18/011

After the first paragraph, insert a new paragraph:

A dummy procedure or procedure pointer shall not be specified to be ELEMENTAL.

[340:34-35]f18/001

#### **Subclause 16.9.5**

In the fifth paragraph of the subclause, after “is complex” insert “the real part is nonnegative and”, and change “range 0” to “range  $-\pi$ ”.

[380:12-13]f18/013

#### **Subclause 16.9.97**

In the third paragraph, for item TEAM\_NUMBER, change “team whose parent is the same as that of the current team” to “sibling team of the current team”.

*And add index for “sibling team”.—*

[401:24-45]f18/013

#### **Subclause 16.9.145**

In the third paragraph, for item TEAM\_NUMBER, change “team whose parent is the same as that of the current team” to “sibling team of the current team”.

*And add index for “sibling team”.—*

[408:36, 39]f18/014

#### **Subclause 16.9.161**

In both the first and third sentences of the third paragraph, for item OPERATION, change “type and type parameters” to “declared type and type parameters”.

[409:5]f18/014

In the fourth paragraph, change “type and type parameters” to “declared type and type parameters”.

[421:9]f18/013

#### **Subclause 16.9.189**

In the fifth paragraph, change “within its parent team” to “among its sibling teams”.

*And add index for “sibling team”.—*

[429:9,10]f18/006

#### **Subclause 16.10.2.13**

In the first sentence, delete “preconnected for sequential formatted input”. After “input/output control list (12.6.4.3).” insert a new sentence “This unit is preconnected for sequential formatted input on image one in the initial team only, and is not preconnected on any other image.”

[448:12]f18/009

#### **Subclause 17.11.17**

In the eighth paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[449:9]f18/009

**Subclause 17.11.19**

In the eighth paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[451:4]f18/009

**Subclause 17.11.24**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[451:18]f18/009

**Subclause 17.11.25**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[451:32]f18/009

**Subclause 17.11.26**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[452:10]f18/009

**Subclause 17.11.27**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[452:24]f18/009

**Subclause 17.11.28**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[452:38]f18/009

**Subclause 17.11.29**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[457:37]f18/009

**Subclause 17.11.41**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[458:13]f18/009

**Subclause 17.11.42**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[458:27]f18/009

**Subclause 17.11.43**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[459:4]f18/009

**Subclause 17.11.44**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[459:18]f18/009

**Subclause 17.11.45**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[459:32]f18/009

**Subclause 17.11.46**

In the seventh paragraph (Example), change “IEEE\_VALUE (IEEE\_QUIET\_NAN)” to “IEEE\_VALUE (1.0, IEEE\_QUIET\_NAN)”.

[502:7] f18/016

**Subclause 19.5.1.4**

In the first sentence of the first paragraph, change “nested scoping unit” to “derived-type definition, interface body, internal subprogram, module subprogram, or submodule”, and delete “named”,

[528:22+] f18/012

**Subclause C.1**

At the end of the bullet list, add a new item:

- An internal procedure name can appear in a *procedure-stmt* in a generic interface block.