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TECHNICAL CORRIGENDUM 1

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Information technology — Z formal specification notation — Syntax, type system and semantics —

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Notation Z pour la spécification formelle — Syntaxe, système de caractères et sémantique —

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 13568:2002 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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Defect 13568/001: Use of UCS

Page 18, in 6.1

At the end of the first paragraph, add the following sentences.

"Reference is also made to characters' General Category and to decimal digits' Decimal Digit Value, as defined for the characters by Unicode[18]. The characters are assumed to be in Normalization Form C[19]."

Page 19, in 6.2

In line 8, replace "*other UCS chars with* Number *property, but* Number, Decimal Digit" by "*any other UCS characters with General Category* `N*` *except* `Nd*`".

In line 11, replace "Number, Decimal Digit *property*" by "*General Category* `Nd*`".

In line 14, replace "*any characters of the mathematical toolkit with* letter *property*" by "*characters of the mathematical toolkit with General Category* `L*`".

In line 15, replace "letter *property*" by "*General Category* `L*`".

In lines 34-35, replace "*any characters of the mathematical toolkit with neither* letter *or* number *property*" by "*characters of the mathematical toolkit with General Category neither* `L*` *nor* `N*`".

In lines 36-37, replace "*neither* letter *or* number *property*" by "*General Category* `S*`, `P*` *or* `M*`".

Page 20, in 6.3

In line 4, replace "property" by "General Category".

Page 20, in 6.4.2

In line 5, replace "UCS defines a corresponding *decimal digit value*" by "Unicode defines a corresponding *Decimal Digit Value*".

Page 21, in 6.4.3.3

In line 1, replace "UCS *letter* property" by "General Category `L*`".

Page 21, in 6.4.4.1

In line 2, replace "`0000 02B9` MODIFIER LETTER PRIME" by "`0000 2032` PRIME".

Page 21, in 6.4.4.3

In line 10, replace "`0000 300A` LEFT DOUBLE ANGLE BRACKET" by "`0000 27EA` MATHEMATICAL LEFT DOUBLE ANGLE BRACKET".

In line 11, replace "`0000 300B` RIGHT DOUBLE ANGLE BRACKET" by "`0000 27EB` MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET".

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Page 22, in 6.4.4.4

In line 6, replace "| 0000 2028 LINE SEPARATOR" by "─ 0000 2500 BOX DRAWINGS LIGHT HORIZONTAL".

In line 10, replace "(new line) 0000 2029 PARAGRAPH SEPARATOR" by "└ 0000 2514 BOX DRAWINGS LIGHT UP AND RIGHT".

Page 22, in 6.4.4.5

In line 2, replace "0000 000A LINE FEED" by "0000 2028 LINE SEPARATOR".

At the end, add the following.

"Newlines represented in accordance with [20] shall all be treated as NLCHAR.
NOTE 1 This ensures the conventional interpretation of LINE FEED (LF), LINE TABULATION (VT), FORM FEED (FF), CARRIAGE RETURN (CR) and NEXT LINE (NEL).

All Unicode characters with General Category Zs shall be treated as SPACE.
NOTE 2 This includes the characters SPACE, EN SPACE, EM SPACE, THREE-PER-EM SPACE, FOUR-PER-EM SPACE, SIX-PER-EM SPACE, PUNCTUATION SPACE, THIN SPACE, HAIR SPACE, MEDIUM MATHEMATICAL SPACE. It excludes CHARACTER TABULATION."

Page 23, in 6.4.6.1

In line 11, replace "0000 005C REVERSE SOLIDUS" by "0000 2216 SET MINUS".

Page 24, in 6.4.6.5

In line 3, replace "0000 3008 LEFT ANGLE BRACKET" by "0000 27E8 MATHEMATICAL LEFT ANGLE BRACKET".

In line 4, replace "0000 3009 RIGHT ANGLE BRACKET" by "0000 27E9 MATHEMATICAL RIGHT ANGLE BRACKET".

Page 83, in A.2.4.3

In line 5, replace "U+300A" by "U+27EA".

In line 6, replace "U+300B" by "U+27EB".

Page 86, in A.2.5.1

In line 11, replace "U+005C" by "U+2216".

Page 87, in A.2.5.5

In line 6, replace "3008" by "27E8".

In line 7, replace "3009" by "27E9".

Page 175, in Bibliography

In line 9, delete "1)", and delete the corresponding footnote ("To be published").

Add the following references.

"[18] The Unicode Consortium, *The Unicode Standard, Version 5.0.0*, defined by: *The Unicode Standard, Version 5.0* (Boston, MA, Addison-Wesley, 2007. ISBN 0-321-48091-0)"

"[19] The Unicode Consortium, *Unicode Standard Annex #15: Unicode Normalization Forms* (http://www.unicode.org/reports/tr15/)"

"[20] The Unicode Consortium, *Unicode Standard Annex #14: Line Breaking Properties* (http://www.unicode.org/reports/tr14/)"

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