

ISO/IEC JTC 1/SC 2

CODED CHARACTER SETS

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Contact: Secretariat ISO/IEC JTC 1/SC 2 - Toshiko KIMURA IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 JAPAN Tel: +81 3 3431 2808; Fax: +81 3 3431 6493; E-mail: kimura@itscj.ipsj.or.jp; http://www.dkuug.dk/jtc1/sc2 *A Standard Organization accredited by JISC

G5 CD Cover Page

Committee Draft ISO/IEC 10646-1/PDAM 28				
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ISO/IEC 10646-1/PDAM 28

Title: Information technology - Universal Multiple-Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane -- AMENDMENT 28: Ideographic description characters

Project: 1.02.18.01.28

Introductory note:

At its eighth plenary meeting held in Redmond, Washington, USA, 1998-03-24/25, SC 2 resolved to develop this project (Resolution M08.13). JTC 1's endorsement has been obtained as shown in JTC 1 N 5481. In accordance with Resolution M08.14, f), this document is circulated to the SC 2 members for a combined three-month CD registration and consideration ballot. Please return all votes and comments in electronic form directly to the SC 2 Secretariat <u>by 1999-01-29.</u>

Medium: Web

No. of pages: Cover+6+LB

Address Reply to: Secretariat ISO/IEC JTC 1/SC 2 - Toshiko KIMURA IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 JAPAN Tel: +81 3 3431 2808; Fax: +81 3 3431 6493; E-mail: kimura@itscj.ipsj.or.jp; http://www.dkuug.dk/jtc1/sc2 *A Standard Organization accredited by JISC

Character Set (UCS)

Information technology Universal Multiple-Octet Coded

Part 1:

Architecture and Basic Multilingual Plane **AMENDMENT 28: Ideographic description characters**

Page 11, Clause 19

In the list of Block names, after the entry BRAILLE PATTERNS (see Amd. 16) insert new entrles as follows:

IDEOGRAPHIC DESCRIPTORS 2FF0 - 2FFF

Page 15, Clause 25, Figure 4

In Figure 4 (see Amendment 5), in the crosshatched area for rows 28 to 2F, insert a zone corresponding to 2FF0 to 2FFF containing the words:

Ideographic Descriptors

centred on a white background.

After page 113

Add the following new tables titled:

Table 247 - Row 2F: IDEOGRAPHIC DESCRIPTORS

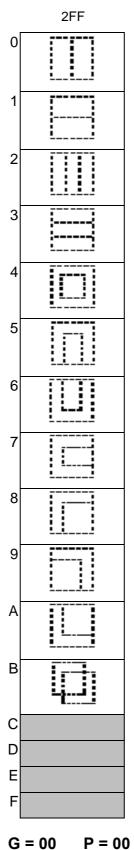


Table 247 - Row 2F: IDEOGRAPHIC DESCRIPTORS

Name

Table 247 - Row 2F: IDEOGRAPHIC DESCRIPTORS

RIGHT241F1IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW242F2IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT243F3IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW244F4IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND245F5IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE246F6IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW247F7IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT248F8IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT249F9IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT250FAIDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT251FBIDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID252FC(This position shall not be used)253FD(This position shall not be used)	dec	hex	Name		dec	hex	
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	254 255						
		n 00		Dian			

Row 2F

In the list of collection numbers and names, after 206 NUMERIC SHAPE SELECTORS

insert a new entry as follows: 207 IDEOGRAPHIC DESCRIPTORS 2FF0 - 2FFF

and in the the entry: 251 SCRIPT-SPECIFIC FORMAT CHARACTERS amend the second line to read: Collections 204 - 207

Page 708. Annex D - Alternate format characters

Add the following text at the end of the Annex.

D.3 Ideographic description characters

An Ideographic Description Character (IDC) is a graphic character, which is used with a sequence of other graphic characters to form an Ideographic Description Sequence (IDS). Such a sequence may be used to describe an ideographic character which is not specified within this International Standard.

The IDS describes the ideograph in the abstract form. It is not interpreted as a composed character and does not have any rendering implication.

D.3.1 Syntax of an ideographic description sequence

An IDS consists of an IDC followed by a fixed number of Description Components (DC). A DC may be any one of the following :

- a coded ideograph
- a coded radical
- a coded ideographic component
- another IDS

Each IDC has 3 properties as summarized in Table-D.1 below.

- the number of DCs used in the IDS that commences with that IDC,
- the definition of the proper usage of the IDC,
- the relative positions of the DCs in the visual representation of the ideograph that is being described in its abstract form.

The syntax of the IDS introduced by each IDC is indicated in the "IDS acronym & syntax" column of the table by the abbreviated name of the IDC (e.g.IDC-LTR) followed by two or three numbered DCs (D_1, D_2, D_3) .

D3.2 Individual definitions of the ideographic description characters.

IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT (2FF0):

The IDS introduced by IDC-LTR describes the abstract form of the ideograph with D_1 on the left and D_2 on the right.



上 is an example of an IDS which

represents the abstract form of 기막

IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW (2FF1):

The IDS introduced by IDC-ATB describes the abstract form of the ideograph with D_1 above D_2 .

三八天 is an example of an IDS which 全

represents the abstract form of 不

IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT (2FF2):

The IDS introduced by IDC-LMR describes the abstract form of the ideograph with D_1 on the left of D_2 , and D_2 on the left of D_3 .



「 〒 丁 is an example of an IDS which 注す

represents the abstract form of III

IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW (2FF3):

The IDS introduced by IDC-AMB describes the abstract form of the ideograph with D_1 above D_2 , and D_2 above D_3 .

■从从日 is an example of an IDS which

represents the abstract form of 畄

IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND (2FF4):

The IDS introduced by IDC-FSD describes the abstract form of the ideograph with D_1 surrounding D_2 .



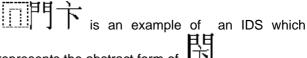
is an example of an IDS which

represents the abstract form of

m of 吃.

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE (2FF5):

IDC-SAV describes the abstract form of the ideograph with D_1 above D_2 , and surrounding D_2 on both sides.



IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW (2FF6):

The IDS introduced by IDC-SBL describes the abstract form of the ideograph with D_1 below D_2 , and surrounding D_2 on both sides.

is an example of an IDS which

represents the abstract form of

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT (2FF7):

The IDS introduced by IDC-SLT describes the abstract form of the ideograph with D_1 on the left of D_2 , and surrounding D_2 above and below.

ールロ is an example of an IDS which

represents the abstract form of U

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT (2FF8):

The IDS introduced by IDC-SUL describes the abstract form of the ideograph with D_1 at the top left corner of D_2 , and partly surrounding D_2 above and to the left.

is an example of an IDS which

represents the abstract form of /郊

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT (2FF9):

The IDS introduced by IDC-SUR describes the abstract form of the ideograph with D_1 at the top right corner of D_2 , and partly surrounding D_2 above and to the right.

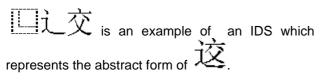


is an example of an IDS which

represents the abstract form of

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT (2FFA):

The IDS introduced by IDC-SLL describes the abstract form of the ideograph with D_1 at the bottom left corner of D_2 , and partly surrounding D_2 below and to the left.



IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID (2FFB):

The IDS introduced by IDC-OVL describes the abstract form of the ideograph with D_1 and D_2 overlaying each other.

represents the abstract form of $\frac{1}{2}$.

Add Table D.1 (see overleaf) after the preceding text.

Page 729, Annex E

After the entry IDEOGRAPHIC DEPARTING TONE MARK insert the following character name entries:

IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT

IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW

IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID

Table D.1: Properties of ideographic description characters

	-		
Character Name: IDEOGRAPHIC DESCRIPTION CHARACTER	no. of DCs	IDS Acronym and Syntax	Relative positions of DCs
LEFT TO RIGHT	2	IDC-LTR D ₁ D ₂	D_1D_2
ABOVE TO BELOW	2	IDC-ATB D ₁ D ₂	D ₁ D ₂
LEFT TO MIDDLE AND RIGHT	3	IDC-LMR D ₁ D ₂ D ₃	$D_1 D_2 D_3$
ABOVE TO MIDDLE AND BELOW	3	IDC-AMB D ₁ D ₂ D ₃	D ₁ D ₂ D ₃
FULL SURROUND	2	IDC -FSD $D_1 D_2$	D ₁ D ₂
SURROUND FROM ABOVE	2	IDC-SAV D ₁ D ₂	D ₁ D ₂
SURROUND FROM BELOW	2	IDC-SBL D ₁ D ₂	D ₂ D ₁
SURROUND FROM LEFT	2	IDC-SLT D ₁ D ₂	D ₁ D ₂
SURROUND FROM UPPER LEFT	2	IDC-SUL D ₁ D ₂	D ₁ D ₂
SURROUND FROM UPPER RIGHT	2	IDC-SUR D ₁ D ₂	D ₂
SURROUND FROM LOWER LEFT	2	IDC-SLL D ₁ D ₂	D ₂ D ₁
OVERLAID	2	IDC-OVL D ₁ D ₂	D ₁ D ₂ *

* Note: D_1 and D_2 overlap each other. This diagram does not imply that D_1 is on the top left corner and D_2 is on the bottom right corner.

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