G6 FCD Cover Page

| Final Committee Draft ISO/IEC 10646-1/FPDAM 28 | |
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ISO/IEC 10646-1/FPDAM 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 approved this subproject (Resolution M08.13). JTC 1's endorsement has been obtained as shown in JTC 1 N 5481. A combined PDAM registration and consideration ballot was conducted as SC 2 N 3213 and its summary of voting is contained in SC 2 N 3247. The disposition of comments report was prepared at the 36th meeting of WG 2 held in Fukuoka, Japan, 1999-03-09/15 and is contained in SC 2 N 3281. In accordance with Resolution M09.09 adopted at the 9th SC 2 Plenary Meeting held in Fukuoka, Japan, 1999-03-16, this document is circulated to the SC 2 members for a four-month FPDAM ballot. Please submit all votes and comments in electronic form directly to the SC 2 Secretariat as soon as possible <u>but not later than 1999-08-13</u>.

Medium: Web No. of pages: Cover+6+LB

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Information technology — Universal Multiple-Octet Coded Character Set (UCS) —

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 entries as follows:

IDEOGRAPHIC DESCRIPTION CHARACTERS 2FF0 - 2FFF

Page 15, Clause 25, Figure 4 (see Amendment 5)

In Figure 4 (Amd.5), in the cross-hatched area for rows 28 to 2F, insert a zone corresponding to 2FF0 to 2FFF containing the words:

Ideographic Description Characters

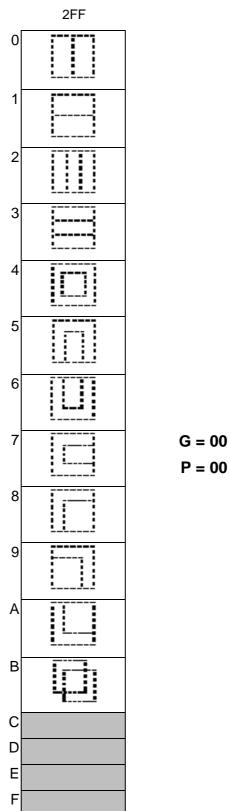
centred on a white background.

After page 113

Add the following new tables titled:

Table 247 - Row 2F: IDEOGRAPHICDESCRIPTION CHARACTERS





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Name

Table 247 - Row 2F: IDEOGRAPHIC DESCRIPTION CHARACTERS

| dec | hex | Name | | dec | hex | |
|------------|----------|---|------|------|-----|--|
| 240 | F0 | IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO | | | | |
| 241 | F1 | RIGHT IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW | | | | |
| 242 | F2 | IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT | | | | |
| 243 | F3 | IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW | | | | |
| 244 | F4 | IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND | | | | |
| 245 | F5 | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE | | | | |
| 246 | F6 | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW | | | | |
| 247 | F7 | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT | | | | |
| 248 | F8 | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT | | | | |
| 249 | F9 | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT | | | | |
| 250 | FA | IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT | | | | |
| 251 252 | FB FC | IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID (This position shall not be used) | | | | |
| 253 | FD | (This position shall not be used) | | | | |
| 254 255 | FE FF | (This position shall not be used) (This position shall not be used) | | | | |
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Page 700, Annex A

In the list of collection numbers and names, after 206 NUMERIC SHAPE SELECTORS insert a new entry as follows:

207 IDEOGRAPHIC DESCRIPTION CHARACTERS 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 imply any specific form of rendering.

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
- another IDS

 $\ensuremath{\mathsf{NOTE}}$ - The above description implies that any IDS may be nested within another IDS.

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

- the number of DCs used in the IDS that commences with that IDC,
- the definition of its acronym,
- the syntax of the corresponding IDS,
- 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 and Syntax" column of the table by the abbreviated name of the IDC (e.g. IDC-LTR) followed by the corresponding number of DCs, i.e. $(D_1 D_2)$ or $(D_1 D_2 D_3)$.

D.3.2 Individual definitions of the ideographic description characters

IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT (2FF0):

The IDS introduced by this character describes the abstract form of the ideograph with D_1 on the left and D_2 on the right.

IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW (2FF1):

The IDS introduced by this character describes the abstract form of the ideograph with D_1 above D_2 .

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

The IDS introduced by this character 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 .

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

The IDS introduced by this character describes the abstract form of the ideograph with D_1 above D_2 , and D_2 above D_3 .

IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND (2FF4):

The IDS introduced by this character describes the abstract form of the ideograph with D_1 surrounding D_2 .

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE (2FF5):

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

IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT (2FF7):

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

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

The IDS introduced by this character 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.

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

The IDS introduced by this character 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.

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

The IDS introduced by this character 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 this character describes the abstract form of the ideograph with D_1 and D_2 overlaying each other.

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:

- 2FF1 IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO
- 2FF3 IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO
- MIDDLE AND BELOW 2FF4 IDEOGRAPHIC DESCRIPTION CHARACTER FULL SUBROUND
- 2FF2 IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT
- 2FF0 DEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT
- 2FFB IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID
- 2FF5 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE
- 2FF6 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW
- 2FF7 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT
- 2FFA IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT
- 2FF8 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT 2FF9 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND
- 2FF9 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT

Page 751, Annex L

After the entry for GB 2312-1980 insert new entry as follows.

GBK (*Guo Biao Kuo*) Han character internal code extension specification: Jishu Biaozhun Chubanshe (Technical Standards Publishing)

 Table D.1: Properties of ideographic description characters

| Character Name: IDEOGRAPHIC DESCRIPTION CHARACTER | no. of DCs | IDS Acronym and Syntax | Relative positions of DCs | Example of IDS | IDS example represents: |
|---|---------------|--|--|-------------------|-------------------------------|
| LEFT TO RIGHT | 2 | IDC-LTR D ₁ D ₂ | D_1D_2 | □□亻母 | 僢 |
| ABOVE TO BELOW | 2 | IDC-ATB D ₁ D ₂ | D ₁ D ₂ | 曰八天 | 关 |
| LEFT TO MIDDLE AND RIGHT | 3 | IDC-LMR D ₁ D ₂ D ₃ | $D_1 D_2 D_3$ | Ⅲ彳訁亍 | 衍 |
| ABOVE TO MIDDLE AND BELOW | 3 | IDC-AMB D ₁ D ₂ D ₃ | D ₁ D ₂ D ₃ | 国从从日 | 谷 |
| FULL SURROUND | 2 | IDC-FSD D ₁ D ₂ | D ₁ D ₂ | □□□巷 | 巷 |
| SURROUND FROM ABOVE | 2 | IDC-SAV D ₁ D ₂ | D ₁ D ₂ | 同門卞 | 閇 |
| SURROUND FROM BELOW | 2 | IDC-SBL D ₁ D ₂ | D ₂ D ₁ | ШЦ± | 山 |
| SURROUND FROM LEFT | 2 | IDC-SLT D ₁ D ₂ | D ₁ D ₂ | 回匚虎 | 虎 |
| SURROUND FROM UPPER LEFT | 2 | IDC-SUL D ₁ D ₂ | D ₁ D ₂ | 同广舞 | 嶡 |
| SURROUND FROM UPPER RIGHT | 2 | $IDC-SUR D_1 D_2$ | D ₁ D ₂ | 同勹去 | 匋 |
| SURROUND FROM LOWER LEFT | 2 | IDC-SLL D ₁ D ₂ | D ₂ D ₁ | 回し交 | 这 |
| OVERLAID | 2 | IDC-OVL D ₁ D ₂ | D ₁ | 回从工 | 赵 |
| | | | | 1 | 1 |

* NOTE: D₁ and D₂ overlap each other. This diagram does not imply that D₁ is on the top left corner and D₂ is on the bottom right corner.