G6 FCD Cover Page

| Final Committee Draft |  |
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| ISO/IEC JTC 1/SC 2 |  |
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| Coded Character Sets |  |
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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

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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<br>In the list of Block names, after the entry BRAILLE PATTERNS (see Amd. 16) insert new entrles as follows:<br>IDEOGRAPHIC DESCRIPTION CHARACTERS<br>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 $2 F$, insert a zone corresponding to $2 F F 0$ 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: IDEOGRAPHIC DESCRIPTION CHARACTERS

## Table 247 - Row 2F: IDEOGRAPHIC DESCRIPTION CHARACTERS


$\mathrm{G}=00$
$\mathrm{P}=00$

Table 247-Row 2F: IDEOGRAPHIC DESCRIPTION CHARACTERS

| dec | hex | Name |
| :---: | :---: | :---: |
| 240 | F0 | IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT |
| 241 | F1 | 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 | FB | IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID |
| 252 | FC | (This position shall not be used) |
| 253 | FD | (This position shall not be used) |
|  | FE | (This position shall not be used) |
| 255 | FF | (This position shall not be used) |



## 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 2FFO-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

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. $\left(D_{1} D_{2}\right)$ or $\left(D_{1} D_{2} D_{3}\right)$.


## D.3.2 Individual definitions of the ideographic description characters <br> IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT (2FFO):

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 $\mathrm{D}_{2}$.

## 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 BELOW
2FF3 IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW
2FF4 IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND
2FF2 IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT
2FFO 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 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 ．．． | $\begin{gathered} \hline \text { no. of } \\ \text { DCs } \end{gathered}$ | IDS Acronym and Syntax | Relative positions of DCs | Example of IDS | IDS example represents： |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LEFT TO RIGHT | 2 | IDC－LTR $\mathrm{D}_{1} \mathrm{D}_{2}$ |  | －¢ 骨 | 付 |
| ABOVE TO BELOW | 2 | IDC－ATB $\mathrm{D}_{1} \mathrm{D}_{2}$ |  |  | $\underset{\sim}{r}$ |
| LEFT TO MIDDLE AND RIGHT | 3 | IDC－LMR $\mathrm{D}_{1} \mathrm{D}_{2} \mathrm{D}_{3}$ |  | 亿 言 $丁$ | 信 |
| ABOVE TO MIDDLE AND BELOW | 3 | IDC－AMB $\mathrm{D}_{1} \mathrm{D}_{2} \mathrm{D}_{3}$ | $: \frac{D_{1}}{D_{2}}$ | $\square 从 \text { 人从 } 曰$ | 挡 |
| FULL SURROUND | 2 | IDC－FSD D ${ }_{1} \mathrm{D}_{2}$ |  |  | 巷 |
| SURROUND FROM ABOVE | 2 | IDC－SAV $\mathrm{D}_{1} \mathrm{D}_{2}$ |  |  | 星 |
| SURROUND FROM BELOW | 2 | IDC－SBL $\mathrm{D}_{1} \mathrm{D}_{2}$ | D |  | 士 |
| SURROUND FROM LEFT | 2 | IDC－SLT $\mathrm{D}_{1} \mathrm{D}_{2}$ |  |  | 虎 |
| SURROUND FROM UPPER LEFT | 2 | IDC－SUL $\mathrm{D}_{1} \mathrm{D}_{2}$ | D | 牟 | 舞 |
| SURROUND FROM UPPER RIGHT | 2 | IDC－SUR $\mathrm{D}_{1} \mathrm{D}_{2}$ |  | H去 | 寺 |
| SURROUND FROM LOWER LEFT | 2 | IDC－SLL $\mathrm{D}_{1} \mathrm{D}_{2}$ | $:$ |  | $x^{2}$ |
| OVERLAID | 2 | IDC－OVL $\mathrm{D}_{1} \mathrm{D}_{2}$ |  |  | $\vec{\lambda}$ |

＊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．


[^0]:    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 but not later than 1999-0813.

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