Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation Internationale de Normalisation Международная организация по стандартизации

**Doc Type:** Working Group Document

Title: Glyphs for Egyptian Hieroglyphic control characters

Source: Michael Everson and Andrew Glass

**Status:** Individual Contribution

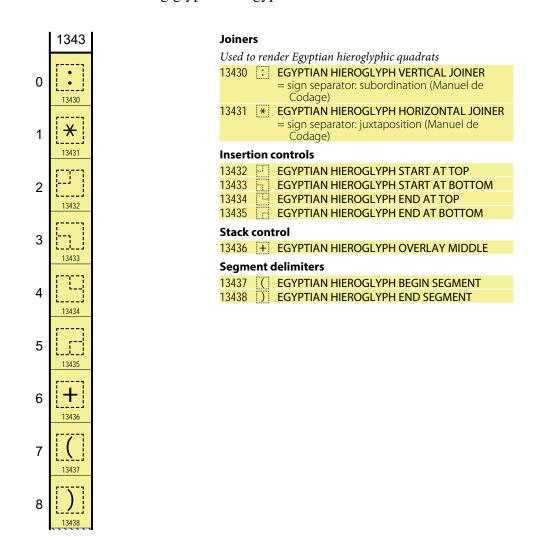
Date: 2018-01-18

Ideographic Description characters are printing graphic characters not intended to be used as control characters. Their glyphs consist of a dotted box with dotted lines indicating various positionings for CJK ideographs.

	2FF
0	2FF0
1	2FF1
2	2FF2
3	2FF3
4	2FF4
5	2FF5
6	2FF6
7	2FF7
8	2FF8
9	2FF9
Α	2FFA
В	2FFB

## Ideographic description characters These are visibly displayed graphic characters, not invisible composition controls. 2FF0 IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT 2FF1 DEOGRAPHIC DESCRIPTION CHARACTER **ABOVE TO BELOW** 2FF2 [[]] IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT 2FF3 IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW 2FF4 IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND SURROUND FROM ABOVE IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT 2FF8 IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT IDEOGRAPHIC DESCRIPTION CHARACTER 2FF9 SURROUND FROM UPPER RIGHT 2FFA IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT 2FFB ideographic description character OVFRI AID

PDAM 2.2 contains the following glyphs for Egyptian control characters:



Irish ballot comments on PDAM 2 (2017-08-25) argued against the use of this type of glyph for control characters, and recommended different ones be used:

E2. Page 17, Row 1343: Egyptian Hieroglyphs Format Controls. Ireland requests that the glyphs for these characters be revised. Control characters in the UCS typically have identifying letter abbreviations in their dotted-box glyphs. The exception to this is the Ideographic Description Characters, which are intended to be "visibly displayed graphic characters, not invisible composition controls" as the annotation to the code chart states. The glyphs of the Egyptian characters in this PDAM are hardly distinguishable from those of the Ideographic Description Characters, abd we believe this could be confusing to users and implementers. We propose that the glyphs below be used.

EGY 13430 EGYPTIAN HIEROGLYPH VERTICAL JOINER EGY 13431 EGYPTIAN HIEROGLYPH HORIZONTAL JOINER EGY 13432 EGYPTIAN HIEROGLYPH START AT TOP

r	
EGY SB	13433 EGYPTIAN HIEROGLYPH START AT BOTTOM
EGY ET	13434 EGYPTIAN HIEROGLYPH END AT TOP
EGY EB	13435 EGYPTIAN HIEROGLYPH END AT BOTTOM
EGY BS (	13437 EGYPTIAN HIEROGLYPH BEGIN SEGMENT
EGY ES)	13438 EGYPTIAN HIEROGLYPH END SEGMENT

It should be noted that some types of control characters use dotted circles to indicate glyph relationships, rather than letter abbreviations, but the Irish comment is valid in that a similariy in glyphs between the Ideographic Description Characters, which are printable graphic characters and not control characters, and the Egyptian hieroglyphic controls could cause confusion to some users of both communities.

It is true that the glyphs proposed in the Irish comments on PDAM 2 are somewhat "busy" but we found it relatively easy to come to a compromise which we think should satisfy both SC2 and the UTC.

EVJ	13430 EGYPTIAN HIEROGLYPH VERTICAL JOINER
EHJ *	13431 EGYPTIAN HIEROGLYPH HORIZONTAL JOINER
EST	13432 EGYPTIAN HIEROGLYPH START AT TOP
ESB	13433 EGYPTIAN HIEROGLYPH START AT BOTTOM
EET	13434 EGYPTIAN HIEROGLYPH END AT TOP
EEB	
EOM	13436 EGYPTIAN HIEROGLYPH OVERLAY MIDDLE
EBS	13437 EGYPTIAN HIEROGLYPH BEGIN SEGMENT
EES	13438 EGYPTIAN HIEROGLYPH END SEGMENT