

Title: Proposal to assign math-class property values to the Arabic mathematical alphabetic symbols
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Issue

It has been brought to our attention that the characters in the Arabic Mathematical Alphabetic Symbols block U+1EE00–U+1EEFF are not assigned math-class property values in the UTR #25 data files as of Revision 13 [1]. It seems that they were accidentally omitted when Revision 13 was issued to align with the Unicode 6.1 repertoire.

The editors of the XML Entity Definitions have received feedback from users to update the unicode.xml entity classification [2] with math-class values for the Arabic math alphabetic symbols. As that data file has been maintained in synchrony with the UTR #25 data files, an update of the latter seems in order.

Proposal

To address the omission, the proposal is to assign math-class property values to the characters in the Arabic Mathematical Alphabetic Symbols block as follows:

1. Class Alphabetic (A) for the styled alphabetic symbols at all of the assigned code points in the range U+1EE00–U+1EEBB, and
2. Class Large operator (L) for the stretching symbols U+1EEF0 ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH WITH TATWEEL and U+1EEF1 ARABIC MATHEMATICAL OPERATOR HAH WITH DAL.

Neither the unassigned code points in the Arabic Mathematical Alphabetic Symbols block, nor the basic letters in the main Arabic block, would be assigned math-class property values.

Guidance from the UTC is sought whether to issue a new revision of the UTR #25 data files sooner, with just the proposed update, or to include the proposed update in a more comprehensive revision to align UTR #25 with the Unicode 7.0 repertoire, if the proposal is accepted.

References

- [1] Barbara Beeton, Asmus Freytag, and Murray Sargent III, *Unicode Technical Report #25, Unicode Support for Mathematics, Revision 13*, <http://www.unicode.org/reports/tr25/tr25-13.pdf>, and corresponding data files at <http://www.unicode.org/Public/math/revision-13/>.
- [2] David Carlisle and Patrick Ion, *XML Entity Definitions for Characters, W3C Recommendation 01 April 2010*, <http://www.w3.org/TR/2010/REC-xml-entity-names-20100401/>, and unicode.xml entity classification at <http://www.w3.org/2003/entities/2007xml/unicode.xml>.