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

Part 1:

**Architecture and Basic Multilingual Plane**

**AMENDMENT 1: Mathematical symbols and  
other characters**

*Technologies de l'information — Jeu universel de caractères codés sur  
plusieurs octets (JUC) —*

*Partie 1: Architecture et plan multilingue de base*

*AMENDEMENT 1: Symboles mathématiques et autres caractères*



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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this Amendment may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to International Standard ISO/IEC 10646-1:2000 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 2, *Coded character sets*.

This corrected version of ISO/IEC 10646-1:2000/Amd.1:2002 includes the electronic attachments that were omitted in the original version.

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

## Part 1:

## Architecture and Basic Multilingual Plane

## AMENDMENT 1: Mathematical symbols and other characters

### Page v, Foreword

Replace:

— *Part 2: Secondary Multilingual Plane for scripts and symbols, Supplementary Plane for CJK Ideographs, Special Purpose Plane*

by:

— *Part 2: Supplementary Planes*

Remove the text “Additional parts will specify other planes”.

### Page 2, clause 3

Append the following references:

ISO/IEC 10646-2:2001, Information Technology — Universal Multiple-Octet Coded Character Set (UCS) — Part 2: Supplementary Planes.

Unicode Standard Annex, UAX#9, The Unicode Bidirectional Algorithm, Version 3.1.0, 2001-03-23.

### Page 6, figure 2

In the legend “Private use planes 0F, 10, E0-FF” delete “E0-FF”, and delete the upward arrows pointing to planes E0 to FF.

### Page 7, clause 6

Change “four-digit form” and “4-digit form” to “four-to-six-digit form” throughout.

In clause 6.5, replace title, first paragraph and add note as follows:

#### 6.5 Short identifiers for code positions (UIDs)

ISO/IEC 10646 defines short identifiers for each code position, including code positions that are reserved. A short identifier for any code position is distinct from a short identifier for any other code position. If a character is allocated at a code position, a

short identifier for that code position can be used to refer to the character allocated at that code position.

NOTE 1 — For instance, U+DC00 identifies a code position that is permanently reserved for UTF-16, and U+FFFF identifies a code position that is permanently reserved. U+0025 identifies a code position to which a character is allocated; U+0025 also identifies that character (named PERCENT SIGN).

Rename the existing note to NOTE 2, and increment all other note numbers of the sub-clause by one (NOTE 3 and 4).

In clause 6.5.b change “It is not defined if the first four digits of the eight-digit form are not all zeros” to “It is not defined if the eight-digit form is greater than 0010FFFF” and append at the end of the text “Leading zeros beyond four digits are suppressed.”.

Change “{+}xxxx” in the BNF form to “{+}(xxxx | xxxxx | xxxxxx)”.

Add a clause 6.5f:

- f. For the 8 digit forms, the characters SPACE or NO-BREAK SPACE may optionally be inserted before the four last digits.

### Page 8, clause 6

After clause 6.5, add a new clause 6.6 (UCS Sequence Identifiers) and a note:

“ISO/IEC 10646 defines an identifier for any sequence of code positions taken from the standard. Such an identifier is known as a UCS Sequence Identifier (USI). For a sequence of n code positions it has the following form:

<UID1, UID2, ..., UIDn>

where UID1, UID2, etc. represent the short identifiers of the corresponding code positions, in the same order as those code positions appear in the sequence. If each of the code positions in such a sequence has a character allocated to it, the USI can

be used to identify the sequence of characters allocated at those code positions. The syntax for UID1, UID2, etc. is specified in clause 6.5. A COMMA character (optionally followed by a SPACE character) separates the UIDs. The UCS Sequence Identifier shall include at least two UIDs; it shall begin with a LESS-THAN SIGN and be terminated by a GREATER-THAN SIGN."

NOTE – UCS Sequences Identifiers cannot be used for specification of subset and collection content. They may be used outside this standard to identify: composite sequences for mapping purposes, font repertoire, etc.

**Page 8, clause 7**

*Remove the note.*

**Page 8, Clause 8**

*Insert the following note after the first paragraph which ends "UCS-2 (see 13.1)".*

NOTE 1 – Since UCS-2 only contains the repertoire of the BMP it is not fully interoperable with UCS-4, UTF-8 and UTF-16.

*Insert the following paragraph and note after the second paragraph which ends "reserved for control characters."*

Code positions 0000 2060 to 0000 206F, 0000 FFF0 to 0000 FFFC, and 000E 0000 to 000E 0FFF are reserved for Alternate Format Characters (see annex F).

NOTE 2 – Unassigned code positions in those ranges may be ignored in normal processing and display.

*Replace the last paragraph as follows:*

Code positions 0000 FDD0 to 0000 FDEF, 0000 FFFE, and 0000 FFFF are permanently reserved.

NOTE 3 – Code position 0000 FFFE is reserved for "signature" (see annex H). Code positions 0000 FDD0 to 0000 FDEF, and 0000 FFFF can be used for internal processing uses requiring numeric values which are guaranteed not to be coded characters, such as in terminating tables, or signaling end-of-text. Furthermore, since 0000 FFFF is the largest BMP value, it may also be used as the final value in binary or sequential searching index within the context of UCS-2 or UTF-16."

NOTE 4 – A "permanently reserved" code position cannot be changed by future amendments.

**Page 8, clause 9**

*Replace clause 9 to read as follows:*

**9. Other planes**

**9.1 Planes reserved for future standardization**

Planes 11 to FF in Group 00 and all planes in any other groups (i.e. Planes 00 to FF in Groups 01 to 7F) are reserved for future standardization, and thus those code positions shall not be used for any other purpose.

Code positions in these planes do not have a mapping to the UTF-16 form (see Annex C).

NOTE – To ensure continued interoperability between the UTF-16 form and other coded representations of the UCS, it is intended that no characters will be allocated to code positions in Planes 11 to FF in Group 00 or any planes in any other groups.

**9.2 Planes accessible by UTF-16**

Each code position in Planes 01 to 10 of Group 00 has a unique mapping to a four-octet sequence in accordance with the UTF-16 form of coded representation (see annex C). This form is compatible with the two-octet BMP form of UCS-2 (see 13.1).

**Page 8, clause 10**

*Replace sub-clause 10.2 to read as follows:*

**10.2 Code positions for private use characters**

The code positions of Plane 0F and Plane 10 of Group 00 shall be for private use.

The 6400 code positions E000 to F8FF of the Basic Multilingual Plane shall be for private use.

The contents of these code positions are not specified in ISO/IEC 10646 (see 10.1).

**Page 9, clause 14**

*In the first paragraph, change the text "listed in annex B" to "listed in annex B of each part of ISO/IEC 10646".*

**Page 9, clause 14.1**

*Change the text "(see clause B.1)" to "(see clause B.1 of each part of ISO/IEC 10646)".*

**Page 9, clause 14.2**

*Change the text "listed in clause B.2" to "listed in clause B.2 of each part of ISO/IEC 10646".*

**Page 12, clause 19**

Add a new clause 19.1 at the end of clause 19.

**19.1 Directional of bi-directional text**

The Unicode Bidirectional Algorithm describes the algorithm used to determine the directionality for bidirectional text.

**Page 13, Clause 22 Compatibility characters**

Add the following sub-clauses:

**22.1 Compatibility Ideographs**

The CJK compatibility ideographs (characters part of the CJK COMPATIBILITY IDEOGRAPHS-2001 collection) are ideographs that should have been unified with one of the CJK unified ideographs (characters part of the CJK UNIFIED IDEOGRAPHS-2001 collection), per the unification rule described in Annex S of this International Standard.

However, they are included in this International Standard as separate characters, because, based on various national, cultural, or historical reason for some specific country and region, some national and regional standards assign separate code positions for them.

NOTE – For this reason, compatibility ideographs should only be used for maintaining and guaranteeing a round trip conversion with the specific national, regional, or other standard. Other usage is strongly discouraged.

**22.2 Source references for CJK Compatibility Ideographs**

ISO/IEC 10646-1 provides the source reference for CJK Compatibility Ideographs included in the Basic Multilingual Plane. ISO/IEC 10646-2 provides the source reference for CJK Compatibility Ideographs included in the Supplementary Planes.

The source references for the CJK Compatibility Ideographs included in the BMP are provided in a machine-readable format that is accessible as a link to this document. The content pointed to by this link is also normative.

NOTE 1 – The referenced file is only available to users who obtain their copy of the standard in a machine-readable form. However, the file format makes it printable.

The Kanji J sources are:

J3 JIS X 213:2000 level-3  
J4 JIS X 213:2000 level-4

The Hanja K source is:

K0 KS C 5601-1987

The Unicode U source is:

U0 The Unicode Standard 3.0-2000

The content linked to is a plain text file that specifies, after a 8-line header, as many lines as CJK Compatibility Ideographs; each containing the following information organized in fixed width fields:

- 01-06 octet: BMP code value (0hhhh )
- 07-12 octet: Corresponding CJK Unified Ideograph (0hhhh ).

- 13-20 octet: Kanji J sources (J3-hhhh ), (J4-hhhh ).
- 21-28 octet: Hanja K sources (K0-hhhh ).
- 29-36 octet: Unicode U sources (U0-hhhh )

The format definition uses 'h' as a hexadecimal unit. Uppercase characters and all other symbols including the space character between parentheses appear as shown.

Click on this highlighted text to access the reference file.

NOTE 2 – The content is also available as a separate viewable file in the same file directory as this document. The file is named: "CJKC0SR.txt".

**Page 13, clause 24**

In the first paragraph, change the text "clause B.1" to "clause B.1 of each part of ISO/IEC 10646", and change the text "clause B.2" to "clause B.2 of each part of ISO/IEC 10646".

**Page 14, clause 24**

A sub-clause 24.5 is added to the clause 24 Combining Characters as follows:

**24.5 Variation selectors**

Variation selectors are combining characters following immediately a specific base character to indicate a specific variant form of graphic symbol for that character. Some variation selectors are specific to a script, such as the Mongolian free variation selectors, others are used with various other base characters such as the mathematical symbols. Variations selectors following other characters have no effect on the selection of the graphic symbol for that character.

No sequences using characters from VARIATION SELECTOR-2 to VARIATION SELECTOR-16 are defined at this time.

The following table provides a description of the variant appearances corresponding to the use of appropriate variation selectors with all allowed base mathematical symbols.

NOTE 1 – The VARIATION SELECTOR-1 is the only variation selector used with mathematical symbols.

| Sequence<br>(UID notation) | Description of variant appearance                      |
|----------------------------|--------------------------------------------------------|
| <2229, FE00>               | INTERSECTION with serifs                               |
| <222A, FE00>               | UNION with serifs                                      |
| <2268, FE00>               | LESS-THAN BUT NOT EQUAL TO with vertical stroke        |
| <2269, FE00>               | GREATER-THAN AND NOT DOUBLE EQUAL with vertical stroke |

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| <2272, FE00> | LESS-THAN OR EQUIVALENT TO following the slant of the lower leg    |
| <2273, FE00> | GREATER-THAN OR EQUIVALENT TO following the slant of the lower leg |
| <2278, FE00> | NEITHER LESS-THAN NOR GREATER-THAN with vertical stroke            |
| <2279, FE00> | NEITHER GREATER-THAN NOR LESS-THAN with vertical stroke            |
| <228A, FE00> | SUBSET OF WITH NOT EQUAL TO with stroke through bottom members     |
| <228B, FE00> | SUPERSET OF WITH NOT EQUAL TO with stroke through bottom members   |
| <2293, FE00> | SQUARE CAP with serifs                                             |
| <2294, FE00> | SQUARE CUP with serifs                                             |
| <2295, FE00> | CIRCLED PLUS with white rim                                        |
| <2297, FE00> | CIRCLED TIMES with white rim                                       |
| <229C, FE00> | CIRCLED EQUALS equal sign touching the circle                      |
| <22DA, FE00> | LESS-THAN EQUAL TO OR GREATER-THAN with slanted equal              |
| <22DB, FE00> | GREATER-THAN EQUAL TO OR LESS-THAN with slanted equal              |
| <2A3C, FE00> | INTERIOR PRODUCT tall variant with narrow foot                     |
| <2A3D, FE00> | RIGHTHAND INTERIOR PRODUCT tall variant with narrow foot           |
| <2A9D, FE00> | SIMILAR following the slant of the upper leg OR LESS-THAN          |
| <2A9E, FE00> | SIMILAR following the slant of the upper leg OR GREATER-THAN       |
| <2AAC, FE00> | SMALLER THAN OR EQUAL TO with slanted equal                        |
| <2AAD, FE00> | LARGER THAN OR EQUAL TO with slanted equal                         |
| <2ACB, FE00> | SUBSET OF ABOVE NOT EQUAL TO with stroke through bottom members    |
| <2ACC, FE00> | SUPERSET OF ABOVE NOT EQUAL TO with stroke through bottom members  |

The following table provides a description of the variant appearances corresponding to the use of appropriate variation selectors with all allowed base Mongolian characters. Only some presentation forms of the base Mongolian characters used with the Mongolian free variation selectors produce variant appearances. These combinations are described in the following table.

NOTE 2 – The Mongolian characters have various presentation forms depending on their position in a CC-data element. These presentations forms are called isolate, initial, medial and final.

| <b>Sequence<br/>(UID notation)</b> | <b>position</b>              | <b>Description of variant appearance</b> |
|------------------------------------|------------------------------|------------------------------------------|
| <1820, 180B>                       | isolate,<br>medial,<br>final | MONGOLIAN LETTER A second form           |
| <1820, 180C>                       | medial                       | MONGOLIAN LETTER A third form            |
| <1821, 180B>                       | initial,<br>final            | MONGOLIAN LETTER E second form           |

|              |                              |                                          |
|--------------|------------------------------|------------------------------------------|
| <1822, 180B> | medial                       | MONGOLIAN LETTER I second form           |
| <1823, 180B> | medial,<br>final             | MONGOLIAN LETTER O second form           |
| <1824, 180B> | medial                       | MONGOLIAN LETTER U second form           |
| <1825, 180B> | medial,<br>final             | MONGOLIAN LETTER OE second form          |
| <1825, 180C> | medial                       | MONGOLIAN LETTER OE third form           |
| <1826, 180B> | isolate,<br>medial,<br>final | MONGOLIAN LETTER UE second form          |
| <1826, 180C> | medial                       | MONGOLIAN LETTER UE third form           |
| <1828, 180B> | initial,<br>medial           | MONGOLIAN LETTER NA second form          |
| <1828, 180C> | medial                       | MONGOLIAN LETTER NA third form           |
| <1828, 180D> | medial                       | MONGOLIAN LETTER NA separate form        |
| <182A, 180B> | final                        | MONGOLIAN LETTER BA alternative form     |
| <182C, 180B> | initial,<br>medial           | MONGOLIAN LETTER QA second form          |
| <182C, 180B> | isolate                      | MONGOLIAN LETTER QA feminine second form |
| <182C, 180C> | medial                       | MONGOLIAN LETTER QA third form           |
| <182C, 180D> | medial                       | MONGOLIAN LETTER QA fourth form          |
| <182D, 180B> | initial,<br>medial           | MONGOLIAN LETTER GA second form          |
| <182D, 180B> | final                        | MONGOLIAN LETTER GA feminine form        |
| <182D, 180C> | medial                       | MONGOLIAN LETTER GA third form           |
| <182D, 180D> | medial                       | MONGOLIAN LETTER GA feminine form        |
| <1830, 180B> | final                        | MONGOLIAN LETTER SA second form          |
| <1830, 180C> | final                        | MONGOLIAN LETTER SA third form           |
| <1832, 180B> | medial                       | MONGOLIAN LETTER TA second form          |
| <1833, 180B> | initial,<br>medial,<br>final | MONGOLIAN LETTER DA second form          |
| <1835, 180B> | final                        | MONGOLIAN LETTER JA second form          |
| <1836, 180B> | initial,<br>medial           | MONGOLIAN LETTER YA second form          |
| <1836, 180C> | medial                       | MONGOLIAN LETTER YA third form           |
| <1838, 180B> | final                        | MONGOLIAN LETTER WA second form          |
| <1844, 180B> | medial                       | MONGOLIAN LETTER TODO E second form      |
| <1845, 180B> | medial                       | MONGOLIAN LETTER TODO I second form      |
| <1846, 180B> | medial                       | MONGOLIAN LETTER TODO O second form      |

|              |                              |                                                            |
|--------------|------------------------------|------------------------------------------------------------|
| <1847, 180B> | isolate,<br>medial,<br>final | MONGOLIAN LETTER<br>TODO U second form                     |
| <1847, 180C> | medial                       | MONGOLIAN LETTER<br>TODO U third form                      |
| <1848, 180B> | medial                       | MONGOLIAN LETTER<br>TODO OE second form                    |
| <1849, 180B> | isolate,<br>medial           | MONGOLIAN LETTER<br>TODO UE second form                    |
| <184D, 180B> | initial,<br>medial           | MONGOLIAN LETTER<br>TODO QA feminine form                  |
| <184E, 180B> | medial                       | MONGOLIAN LETTER<br>TODO GA second form                    |
| <185D, 180B> | medial,<br>final             | MONGOLIAN LETTER<br>SIBE E second form                     |
| <185E, 180B> | medial,<br>final             | MONGOLIAN LETTER<br>SIBE I second form                     |
| <185E, 180C> | medial,<br>final             | MONGOLIAN LETTER<br>SIBE I third form                      |
| <1860, 180B> | medial,<br>final             | MONGOLIAN LETTER<br>SIBE UE second form                    |
| <1863, 180B> | medial                       | MONGOLIAN LETTER<br>SIBE KA second form                    |
| <1868, 180B> | initial,<br>medial           | MONGOLIAN LETTER<br>SIBE TA second form                    |
| <1868, 180C> | medial                       | MONGOLIAN LETTER<br>SIBE TA third form                     |
| <1869, 180B> | initial,<br>medial           | MONGOLIAN LETTER<br>SIBE DA second form                    |
| <186F, 180B> | initial,<br>medial           | MONGOLIAN LETTER<br>SIBE ZA second form                    |
| <1873, 180B> | medial,<br>final             | MONGOLIAN LETTER<br>MANCHU I second form                   |
| <1873, 180C> | medial,<br>final             | MONGOLIAN LETTER<br>MANCHU I third form                    |
| <1873, 180D> | medial                       | MONGOLIAN LETTER<br>MANCHU I fourth form                   |
| <1874, 180B> | medial                       | MONGOLIAN LETTER<br>MANCHU KA second form                  |
| <1874, 180B> | final                        | MONGOLIAN LETTER<br>MANCHU KA feminine first<br>form       |
| <1874, 180C> | medial                       | MONGOLIAN LETTER<br>MANCHU KA feminine first<br>form       |
| <1874, 180C> | final                        | MONGOLIAN LETTER<br>MANCHU KA feminine sec-<br>ond form    |
| <1874, 180D> | medial                       | MONGOLIAN LETTER<br>MANCHU KA feminine sec-<br>ond form    |
| <1876, 180B> | initial,<br>medial           | MONGOLIAN LETTER<br>MANCHU FA second form                  |
| <1880, 180B> | all                          | MONGOLIAN LETTER ALI<br>GALI ANUSVARA ONE sec-<br>ond form |
| <1881, 180B> | all                          | MONGOLIAN LETTER ALI<br>GALI VISARGA ONE sec-<br>ond form  |
| <1887, 180B> | isolate,<br>final            | MONGOLIAN LETTER ALI<br>GALI A second form                 |
| <1887, 180C> | final                        | MONGOLIAN LETTER ALI<br>GALI A third form                  |

|              |                    |                                              |
|--------------|--------------------|----------------------------------------------|
| <1887, 180D> | final              | MONGOLIAN LETTER ALI<br>GALI A fourth form   |
| <1888, 180B> | final              | MONGOLIAN LETTER ALI<br>GALI I second form   |
| <188A, 180B> | initial,<br>medial | MONGOLIAN LETTER ALI<br>GALI NGA second form |

NOTE 3 – The variation selector only selects a different *appearance* of an already encoded character. It is not intended as a general code extension mechanism. Only the sequences specifically defined in this annex are sanctioned for standard use; all other sequences are undefined. No sequences containing combining characters or composite characters will be defined.

NOTE 4 – The exhaustive list of standardized variants is also described as *StandardizedVariants.html* in the Unicode character database.

### Page 880, Annex A.1

Add a “\*” (for fixed collection) to the following collection:

38 ARROWS  
39 MATHEMATICAL OPERATORS,  
45 BLOCK ELEMENTS,  
46 GEOMETRIC SHAPES,  
49 CJK SYMBOLS AND PUNCTUATION  
51 KATAKANA

In the list of collection numbers and names, after

91 TIBETAN

insert new entries as follows:

|                                             |             |
|---------------------------------------------|-------------|
| 92 CYRILLIC SUPPLEMENT                      | 0500-052F   |
| 93 TAGALOG                                  | 1700-171F   |
| 94 HANUNOO                                  | 1720-173F   |
| 95 BUHID                                    | 1740-175F   |
| 96 TAGBANWA                                 | 1760-177F   |
| 97 MISCELLANEOUS MATHEMATICAL<br>SYMBOLS-A  | 27C0-27EF   |
| 98 SUPPLEMENTAL ARROWS-A                    | 27F0-27FF * |
| 99 SUPPLEMENTAL ARROWS-B                    | 2900-297F * |
| 100 MISCELLANEOUS MATHEMATICAL<br>SYMBOLS-B | 2980-29FF * |
| 101 SUPPLEMENTAL MATHEMATICAL<br>OPERATORS  | 2A00-2AFF * |
| 102 KATAKANA PHONETIC<br>EXTENSIONS         | 31F0-31FF * |
| 103 VARIATION SELECTORS                     | FE00-FE0F * |

after

271 COMBINING CHARACTERS B-2

insert new entries as follows:

|           |             |
|-----------|-------------|
| 281 MES-1 | SEE A.4.1 * |
| 282 MES-2 | SEE A.4.2 * |

### Page 881, annex A.1

In the list of collections numbers and names, after

|                        |            |
|------------------------|------------|
| 302 BMP SECOND EDITION | See A3.3 * |
|------------------------|------------|

insert the following text:

The following collections contain characters both inside and outside the Basic Multilingual Plane.

|                                        |                |
|----------------------------------------|----------------|
| 303 UNICODE 3.1                        | See A5.1 *     |
| 304 UNICODE 3.2                        | See A5.2 *     |
| 380 CJK UNIFIED IDEOGRAPHS-2001 *      |                |
|                                        | 3400-4DB5      |
|                                        | 4E00-9FA5      |
|                                        | FA0E-FA0F      |
|                                        | FA11           |
|                                        | FA13-FA14      |
|                                        | FA1F           |
|                                        | FA21           |
|                                        | FA23-FA24      |
|                                        | FA27-FA29      |
|                                        | 20000-2A6D6    |
| 381 CJK COMPATIBILITY IDEOGRAPHS-2001* |                |
|                                        | F900-FA0D      |
|                                        | FA10           |
|                                        | FA12           |
|                                        | FA15-FA1E      |
|                                        | FA20           |
|                                        | FA22           |
|                                        | FA25-FA26      |
|                                        | FA2A-FA6A      |
|                                        | 2F800-2FA1D    |
| 10646 UNICODE                          | 0000-FDCF      |
|                                        | FDF0-FFFD      |
|                                        | 10000-1FFFFD   |
|                                        | 20000-2FFFFD   |
|                                        | 30000-3FFFFD   |
|                                        | 40000-4FFFFD   |
|                                        | 50000-5FFFFD   |
|                                        | 60000-6FFFFD   |
|                                        | 70000-7FFFFD   |
|                                        | 80000-8FFFFD   |
|                                        | 90000-9FFFFD   |
|                                        | A0000-AFFFFD   |
|                                        | B0000-BFFFFD   |
|                                        | C0000-CFFFFD   |
|                                        | D0000-DFFFFD   |
|                                        | E0000-EFFFFD   |
|                                        | F0000-FFFFFD   |
|                                        | 100000-10FFFFD |

NOTE – The UNICODE collection incorporates all characters currently encoded in the standard.

### Page 881, annex A.1

Under collection 400, change “PRIVATE USE PLANES G=00, P=0F, 10, & E0-FF” to “(This collection number shall not be used, see Note 2.)”.

Add the following collection after 400:

401 PRIVATE USE PLANES-0F-10 G=00, P=0F-10

Under collection 500, change “PRIVATE USE GROUPS G=60-7F” to “(This collection number shall not be used, see Note 2.)”.

Under Note 1, change the text “90, and 91” to “90, 91, 93, 94, 95, and 96”.

Replace the Note 2 as follows:

NOTE 2 – Collections numbered 57, 58, and 59 were specified in the First Edition of this International Standard but have now been deleted. Collections numbered 400 and 500 were specified in the First and Second Editions of this Standard but have now been deleted.

In the alphabetical list of keywords, add collections “98” and “99” to the entry “Arrows”;

Add collection “92” to the entry “Cyrillic”;

Add collection “102” to the entry “Katakana”;

Add collection “101” to the entry “Mathematical operators”;

Add collection “401” and remove “400 500” from the entry “Private use”;

Add collections “97” and “100” to the entry “Symbols”.

In the alphabetical list of keywords, after

Braille patterns

insert  
Buhid 95

After  
Hangul

insert  
Hanunoo 94

After  
Mathematical operators

insert  
Mathematical symbols 97 and 100  
MES 281 282

After  
Syriac

insert  
Tagalog 93  
Tagbanwa 96

After  
Tibetan

insert  
Unicode 303, 304, 10646  
Variation selectors 103

In the alphabetical list of keywords, add a tab between “Yi” and the collection numbers “76 77”.

### Page 881, Annex A.2

In the list of blocks in the BMP, after  
CYRILLIC

insert a new entry as follows:  
CYRILLIC SUPPLEMENT 0500-052F

after  
RUNIC

insert new entries as follows:  
TAGALOG 1700-171F  
HANUNOO 1720-173F

|                                      |           |
|--------------------------------------|-----------|
| BUHID                                | 1740-175F |
| TAGBANWA                             | 1760-177F |
| after                                |           |
| DINGBATS                             |           |
| insert new entries as follows:       |           |
| MISCELLANEOUS MATHEMATICAL SYMBOLS-A | 27C0-27EF |
| SUPPLEMENTAL ARROWS-A                | 27F0-27FF |
| after                                |           |
| BRaille PATTERNS                     |           |
| insert new entries as follows:       |           |
| SUPPLEMENTAL ARROWS-B                | 2900-297F |
| MISCELLANEOUS MATHEMATICAL SYMBOLS-B | 2980-29FF |
| SUPPLEMENTAL MATHEMATICAL OPERATORS  | 2A00-2AFF |
| after                                |           |
| BOPOMOFO EXTENDED                    |           |
| insert a new entry as follows:       |           |
| KATAKANA PHONETIC EXTENSIONS         | 31F0-31FF |
| after                                |           |
| ARABIC PRESENTATION FORMS-B          |           |
| insert a new entry as follows:       |           |
| VARIATION SELECTORS                  | FE00-FE0F |

**Page 882, annex A.3.1 301 BMP-AMD.7**

Within the row 0B entry, replace the following sequence:

.. 8E-90 92-25 99-9A ..

by:

.. 8E-90 92-95 99-9A ..

**Page 883, annex A.3.3 302 BMP Second Edition**

Row 02 entry::

00-33 50-AD B0-EE

is changed to:

00-1F 22-33 50-AD B0-EE

Row 07 entry:

00-0D 0F-2C 30-4A 80-BF

is changed to:

00-0D 0F-2C 30-4A 80-B0

Row 0B entry:

.. 8E-90 92-25 99-9A ..

is changed to:

.. 8E-90 92-95 99-9A ..

Row 12 entry:

20-26 28-46 ..

is changed to:

00-06 08-46 ..

Row 34-4D entry:

3400-4DBF

is changed to:

3400-4DB5

**Page 884, annex A**

At the end of Annex A add new clauses A.4 and A.5 as follows.

**A.4 Other collections within the BMP**

The collections specified within this clause are entirely within Plane 00.

NOTE – The acronym MES indicates Multilingual European Subset.

**A.4.1 281 MES-1**

281 MES-1 is specified by the following ranges of code positions as indicated for each row.

| Rows | Positions (cells)       |
|------|-------------------------|
| 00   | 20-7E A0-FF             |
| 01   | 00-13 16-2B 2E-4D 50-7E |
| 02   | C7 D8-DB DD             |
| 20   | 15 18-19 1C-1D AC       |
| 21   | 22 26 5B-5E 90-93       |
| 26   | 6A                      |

**A.4.2 282 MES-2**

282 MES-2 is specified by the following ranges of code positions as indicated for each row.

| Rows | Positions (cells)                                                                      |
|------|----------------------------------------------------------------------------------------|
| 00   | 20-7E A0-FF                                                                            |
| 01   | 00-7F 8F 92 B7 DE-EF FA-FF                                                             |
| 02   | 18-1B 1E-1F 59 7C 92 BB-BD C6-C7 C9 D8-DD EE                                           |
| 03   | 74-75 7A 7E 84-8A 8C 8E-A1 A3-CE D7 DA-E1                                              |
| 04   | 00-5F 90-C4 C7-C8 CB-CC D0-EB EE-F5 F8-F9                                              |
| 1E   | 02-03 0A-0B 1E-1F 40-41 56-57 60-61 6A-6B 80-85 9B F2-F3                               |
| 1F   | 00-15 18-1D 20-45 48-4D 50-57 59 5B 5D 5F-7D 80-B4 B6-C4 C6-D3 D6-DB DD-EF F2-F4 F6-FE |
| 20   | 13-15 17-1E 20-22 26 30 32-33 39-3A 3C 3E 44 4A 7F 82 A3-A4 A7 AC AF                   |
| 21   | 05 16 22 26 5B-5E 90-95 A8                                                             |
| 22   | 00 02-03 06 08-09 0F 11-12 19-1A 1E-1F 27-2B 48 59 60-61 64-65 82-83 95 97             |
| 23   | 02 10 20-21 29-2A                                                                      |
| 25   | 00 02 0C 10 14 18 1C 24 2C 34 3C 50-6C 80 84 88 8C 90-93 A0 AC B2 BA BC C4 CA-CB D8-D9 |
| 26   | 3A-3C 40 42 60 63 65-66 6A-6B                                                          |
| FB   | 01-02                                                                                  |
| FF   | FD                                                                                     |

**A.5 Unicode collections**

These collections correspond to Unicode 3.1 and 3.2. They include characters from the BMP as well as Supplementary Planes.

**A.5.1 303 UNICODE 3.1**

303 The fixed collection UNICODE 3.1 consists of collections from A.3 above and several ranges of code positions. The collection list is arranged by planes as follows.

Plane 0Collection number and name

302 BMP SECOND EDITION

Row Positions (cells)

03 F4-F5

Plane 1Row Positions (cells)

03 00-1E 20-23 30-4A

04 00-25 28-4D

D0 00-F5

D1 00-26 2A-DD

D4 00-54 56-9C 9E-9F A2 A5-A6 A9-AC AE-B9 BB  
BD-C0 C2-C3 C5-FF

D5 00-05 07-0A 0D-14 16-1C 1E-39 3B-3E 40-44 46  
4A-50 52-FF

D6 00-A3 A8-FF

D7 00-C9 CE-FF

Plane 2Row Positions (cells)

00-A6 0000-A6D6

F8-FA F800-FA1D

Plane 0ERow Positions (cells)

00 01 20-7F

Plane 0FRow Positions (cells)

00-FF 0000-FFFF

Plane 10Row Positions (cells)

00-FF 0000-FFFF

**A.5.2 304 UNICODE 3.2**

304 The fixed collection UNICODE 3.2 consists of fixed collections from A.3 and A.5.1 above and several ranges of code positions arranged by planes as follows.

Plane 0-10Collection number and name

303 UNICODE 3.1

Plane 0Collection number and name

98 SUPPLEMENTAL ARROWS-A

99 SUPPLEMENTAL ARROWS-B

100 MISCELLANEOUS MATHEMATICAL SYMBOLS-B

101 SUPPLEMENTAL MATHEMATICAL OPERATORS

102 KATAKANA PHONETIC EXTENSIONS

103 VARIATION SELECTORS

Rows Positions (cells)

02 20

03 4F 63-6F D8-D9 F6

04 8A-8B C5-C6 C9-CA CD-CE

05 00-0F

06 6E-6F

07 B1

10 F7-F8

17 00-0C 0E-14 20-36 40-53 60-6C 6E-70 72-73

20 47 4E 52 57 5F-63 71 B0-B1 E4-EA

21 3D-4B F4-FF

22 F2-FF

23 7C 9B-CE

24 EB-FE

25 96-9F F8-FF

26 16-17 72-7D 80-89

27 68-75 D0-EB

30 3B-3D 95-96 9F-A0 FF

32 51-5F B1-BF

A4 A2-A3 B4 C1 C5

FA 30-6A

FE 45-46 73

FF 5F-60

**Page 888, Annex B.1 List of all combining characters**

*Remove the following entry:*

0B83 TAMIL SIGN VISARGA

*After the entry*

1059 MYANMAR VOWEL SIGN VOCALIC LL,

*insert new entries, as shown below:*

1712 TAGALOG VOWEL SIGN I

1713 TAGALOG VOWEL SIGN U

1714 TAGALOG VIRAMA

1732 HANUNOO VOWEL SIGN I

1733 HANUNOO VOWEL SIGN U

1734 HANUNOO PAMUDPOD

1752 BUHID VOWEL SIGN I

1753 BUHID VOWEL SIGN U

1772 TAGBANWA VOWEL SIGN I

1773 TAGBANWA VOWEL SIGN U

*After the entry*

17D3 KHMER SIGN BATHMASAT

*insert new entries, as shown below:*

180B MONGOLIAN FREE VARIATION SELECTOR ONE

180C MONGOLIAN FREE VARIATION SELECTOR TWO

## 180D MONGOLIAN FREE VARIATION SELECTOR THREE

*Insert the following new entries at the end of the list (after FB1E HEBREW POINT JUDEO-SPANISH VARIKA):*

FE00 VARIATION SELECTOR-1  
 FE01 VARIATION SELECTOR-2  
 FE02 VARIATION SELECTOR-3  
 FE03 VARIATION SELECTOR-4  
 FE04 VARIATION SELECTOR-5  
 FE05 VARIATION SELECTOR-6  
 FE06 VARIATION SELECTOR-7  
 FE07 VARIATION SELECTOR-8  
 FE08 VARIATION SELECTOR-9  
 FE09 VARIATION SELECTOR-10  
 FE0A VARIATION SELECTOR-11  
 FE0B VARIATION SELECTOR-12  
 FE0C VARIATION SELECTOR-13  
 FE0D VARIATION SELECTOR-14  
 FE0E VARIATION SELECTOR-15  
 FE0F VARIATION SELECTOR-16

**Page 895, Annex D.4**

*Remove the second sentence of the NOTE 1 in the clause D.4 starting by "The values 0000 FFFE...(see clause 8)."*

**Page 899, Annex F**

*In clause F.1.1 (Zero-width boundary indicators) replace the first paragraph by the following text:*

The following characters are used to indicate whether or not the adjacent characters are separated by a word or hyphenation boundary. Each of these zero-width boundary indicators has no width in its usual own presentation.

**SOFT HYPHEN** (00AD): SOFT HYPHEN (SHY) is a graphic character, the visual representation of which is identical to that of HYPHEN, for use when an allowable automatic hyphenation line-break after it is to be indicated. Unless the SOFT HYPHEN occurs at the very end of a rendered line, the SOFT HYPHEN normally has zero width and no visible representation, and may also suppress the rendering of the following character.

NOTE – For example, for Swedish, "biljett<SHY>tång" should be rendered as "biljettång" when there is no line-break after the SHY.

**Page 901, clause F.2.5**

*Replace the clause F.2.5 as follows:*

**F.2.5 Mongolian vowel separator**

**MONGOLIAN VOWEL SEPARATOR** (180E): This character may be used between the MONGOLIAN LETTER A or the MONGOLIAN

LETTER E at the end of a word and the preceding consonant letter. It indicates a special form of the graphic symbol for the letter A or E and the preceding consonant. When rendered in visible form it is generally shown as a narrow space between the letters, but it may sometimes be shown as a distinct graphic symbol to assist the user.

**Page 904, Annex G**

*Insert each of the new character name entries at the appropriate position, ordered alphabetically by the character name, in the list of character names in Annex G. These new names are provided in a machine-readable format that is accessible as a link to this document.*

NOTE 1 – The referenced file is only available to users who obtain their copy of the amendment in a machine-readable form. However, the file format makes it printable.

[Click on this highlighted text to access the file containing the new names.](#)

NOTE 2 – The content is also available as a separate viewable file in the same file directory as this document. The file is named: "Am1names.txt".

**Page 956, Annex M**

*Add to Annex M the following references.*

*After ISO/IEC 10367:*

ISO 10754:1984 *Information and documentation – Extension of the Cyrillic alphabet coded character set for non-Slavic languages for bibliographic information interchange*

*After JIS X 0212-1990:*

JIS X 0213:2000, Japanese Standards Association. *7-bit and 8-bit double byte coded extended KANJI sets for information interchange, 2000-01-20.*

*After Roop 1972:*

Santos, Hector. 1994. *The Tagalog script*. (Ancient Philippine Scripts Series; 1). Los Angeles: Sushi Dog Graphics.

Santos, Hector. 1995. *The living scripts*. (Ancient Philippine Scripts Series; 2). Los Angeles: Sushi Dog Graphics.

**Page 962, Annex P**

*Insert the following entries in annex P.*

03D8 GREEK LETTER ARCHAIC KOPPA

The name of this character distinguishes it from 03DE GREEK LETTER KOPPA, which is most commonly used with its numeric value, such as

in the dating of legal documentation. GREEK LETTER ARCHAIC KOPPA is primarily used alphabetically to represent the letter used in early Greek inscriptions.

#### 03D9 GREEK SMALL LETTER ARCHAIC KOPPA

The name of this character distinguishes it from 03DF GREEK SMALL LETTER KOPPA, which is most commonly used with its numeric value, such as in the dating of legal documentation. GREEK SMALL LETTER ARCHAIC KOPPA is primarily used alphabetically to represent the letter used in early Greek inscriptions.

#### FF5F FULLWIDTH LEFT WHITE PARENTHESIS

This character has a common glyph variation that looks like a double left parenthesis

#### FF60 FULLWIDTH RIGHT WHITE PARENTHESIS

This character has a common glyph variation that looks like a double right parenthesis

### Page 985, Annex S

Replace all occurrences of 'Source code' by 'Source'.

Replace the end of the first note

- CJK COMPATIBILITY IDEOGRAPHS (F900 – FAFF with the exception of FA1F and FA23).

By

- CJK COMPATIBILITY IDEOGRAPHS (F900 – FAFF with the exception of FA0E, FA0F, FA11, FA13, FA14, FA1F, FA21, FA23, FA24, FA27, FA28, and FA29).

### Page 987, clause S.1.6

Add the following paragraph and note at the end of clause S.1.6:

The source separation rule described in this clause only applies to the CJK UNIFIED IDEOGRAPHS block specified in the Basic Multilingual Plane.

NOTE – CJK Compatibility Ideographs are created following a rule very similar to the source separation rule. However, the end result is the combination of a single CJK Unified Ideograph and one or several CJK Compatibility Ideographs. When the source separation rule is applied, all 'similar' source CJK Ideographs result in separate CJK Unified Ideographs.

### Page 20-303 Code Tables and list of character names

#### 1. Corrigenda and modifications to existing tables

Insert the additional character glyphs and names at the indicated positions in the tables given below, the character names replacing the existing entries which

read "(This position shall not be used)". The table numbers are affected by the insertion of new tables (see below) preceding these modified tables. (The table numbers corresponding to the 2<sup>nd</sup> edition of ISO/IEC 10646-1 are mentioned in parenthesis.)

Table 6 - Row 01-2: Latin Extended B (6)

Table 9 - Row 03: Combining Diacritical Marks (9)

Table 10 - Row 03: Greek and Coptic (10)

Table 12 - Row 04: Cyrillic (12)

Table 16 - Row 06: Arabic (15)

Table 19 - Row 07: Thaana (18)

Table 25 - Row 0B: Tamil (24)

Table 35 - Row 10: Georgian (34)

Table 38 - Row 12: Ethiopic (37)

Table 52 - Row 17: Khmer (47)

Table 58 - Row 20: General Punctuation (53)

Table 59 - Row 20: Superscripts and Subscripts (54)

Table 60 - Row 20: Currency Symbols (55)

Table 61 - Row 20: Combining Diacritical Marks for Symbols (56)

Table 62 - Row 21: Letterlike Symbols (57)

Table 64 - Row 21: Arrows (59)

Table 65 - Row 22: Mathematical Operators (60)

Table 66 - Row 22: Mathematical Operators (61)

Table 67 - Row 23: Miscellaneous Technical (62)

Table 68 - Row 23: Miscellaneous Technical (63)

Table 71 - Row 24: Enclosed Alphanumerics (66)

Table 73 - Row 25: Block Elements (68)

Table 74 - Row 25: Geometric Shapes (69)

Table 75 - Row 26: Miscellaneous Symbols (70)

Table 78 - Row 27: Dingbats (72)

Table 91 - Row 30: CJK Symbols and Punctuation (79)

Table 92 - Row 30: Hiragana (80)

Table 93 - Row 30: Katakana (81)

Table 99 - Row 32: Enclosed CJK Letters and Months (86)

Table 100 - Row 32: Enclosed CJK Letters and Months (87)

Table 110 - Row A4: Yi Radicals (97)

Table 144 - Row F9-FA: CJK Compatibility Ideographs (131)

Table 150 - Row FD: Arabic Presentation Forms-A (136)

Table 153 - Row FE: CJK Compatibility Forms (138)

Table 155 - Row FE: Arabic Presentation Forms-B (140)

Table 156 - Row FF: Halfwidth and Fullwidth Forms (141)

Table 158 - Row FF: Specials (143)

These tables contain updated graphic symbols at the following code positions:

066B-066C, 0B83, 125C, 17DB, 2114, 2216, 224C, 2278-2279, 2329-232A, 2380-238C, 25AA-25AB, 262B, 3018-301B, FEFF.

and the new characters and names at the following code positions:

0220, 034F, 0363-036F, 03D8-03D9, 03F4-03F6, 048A-048B, 04C5-04C6, 04C9-04CA, 04CD-04CE, 066E-066F, 07B1, 10F7-10F8, 2047, 204E-2052, 2057, 205F-2063, 2071, 20B0-20B1, 20E4-20EA, 213D-214B, 21F4-21FF, 22F2-22FF, 237C, 239B-23CE, 24EB-24FE, 2596-259F, 25F8-25FF, 2616-2617, 2672-267D, 2768-2775, 303B-303D, 3095-3096, 309F, 30A0, 30FF, 3251-325F, 32B1-

32BF, A4A2-A4A3, A4B4, A4C1, A4C5, FA30-FA5F, FDFC, FE45-FE46, FE73, FF5F-FF60.

The annotations for the characters at FDD0-FDEF, FFFE, and FFFF are changed to "(This position is permanently reserved)".

## 2. New tables.

Insert the following additional tables and adjust the numbering of the existing tables that follow. When correctly applied, all tables will be arranged by ascending code position.

Table 13 - Row 05: Cyrillic Supplement

Table 48 - Row 17: Tagalog

Table 49 - Row 17: Hanunoo

Table 50 - Row 17: Buhid

Table 51 - Row 17: Tagbanwa

Table 76 - Row 26: Miscellaneous Symbols

Table 79 - Row 27: Miscellaneous Mathematical Symbols-A

Table 80 - Row 27: Supplemental Arrows-A

Table 83 - Row 29: Supplemental Arrows-B

Table 84 - Row 29: Miscellaneous Mathematical Symbols-B

Table 85 - Row 2A: Supplemental Mathematical Operators

Table 86 - Row 2A: Supplemental Mathematical Operators

Table 98 - Row 31: Katakana Phonetic Extensions

Table 145 - Row FA: CJK Compatibility Ideographs

Table 151 - Row FE: Variation Selectors

These tables add new characters and names at the following code positions:

0500-050F, 1700-170C, 170E-1714, 1720-1736, 1740-1753, 1760-176C, 176E-1770, 1772-1773, 2680-2689, 27D0-27EB, 27F0-27FF, 2900-297F, 2980-29FF, 2A00-2AFF, 31F0-31FF, FA60-FA6A, FE00-FE0F

**Table 6 - Rows 01-02: Latin Extended-B**

|   | 01F        | 020       | 021       | 022        | 023       | 024 |
|---|------------|-----------|-----------|------------|-----------|-----|
| 0 | ǰ<br>01F0  | Ă<br>0200 | Ř<br>0210 | ŋ<br>0220  | Ȯ<br>0230 |     |
| 1 | DZ<br>01F1 | ă<br>0201 | ř<br>0211 |            | ȯ<br>0231 |     |
| 2 | Dz<br>01F2 | Â<br>0202 | Ŕ<br>0212 | 8<br>0222  | Ȳ<br>0232 |     |
| 3 | dz<br>01F3 | â<br>0203 | ŕ<br>0213 | 8<br>0223  | ȳ<br>0233 |     |
| 4 | Ć<br>01F4  | Ě<br>0204 | Ů<br>0214 | Ź<br>0224  |           |     |
| 5 | ć<br>01F5  | ě<br>0205 | ů<br>0215 | ž<br>0225  |           |     |
| 6 | Hu<br>01F6 | Ê<br>0206 | Û<br>0216 | À<br>0226  |           |     |
| 7 | Ɔ<br>01F7  | ê<br>0207 | û<br>0217 | à<br>0227  |           |     |
| 8 | Ñ<br>01F8  | Ĭ<br>0208 | Ş<br>0218 | ȼ<br>0228  |           |     |
| 9 | ñ<br>01F9  | î<br>0209 | ş<br>0219 | Ƚ<br>0229  |           |     |
| A | Á<br>01FA  | Î<br>020A | Ț<br>021A | Ȫ<br>022A  |           |     |
| B | á<br>01FB  | î<br>020B | ț<br>021B | ȫ<br>022B  |           |     |
| C | Æ<br>01FC  | Ȫ<br>020C | Ȣ<br>021C | Ȫ̄<br>022C |           |     |
| D | æ<br>01FD  | ȫ<br>020D | ȣ<br>021D | Ȫ̅<br>022D |           |     |
| E | Ø<br>01FE  | Ô<br>020E | Ĥ<br>021E | Ò<br>022E  |           |     |
| F | ø<br>01FF  | ô<br>020F | ĥ<br>021F | ò<br>022F  |           |     |

G = 00  
P = 00

Table 6 - Rows 01-02: Latin Extended-B

| HEX  | NAME                                             | HEX  | NAME                              |
|------|--------------------------------------------------|------|-----------------------------------|
| 01F0 | LATIN SMALL LETTER J WITH CARON                  | 024D | (This position shall not be used) |
| 01F1 | LATIN CAPITAL LETTER DZ                          | 024E | (This position shall not be used) |
| 01F2 | LATIN CAPITAL LETTER D WITH SMALL LETTER Z       | 024F | (This position shall not be used) |
| 01F3 | LATIN SMALL LETTER DZ                            |      |                                   |
| 01F4 | LATIN CAPITAL LETTER G WITH ACUTE                |      |                                   |
| 01F5 | LATIN SMALL LETTER G WITH ACUTE                  |      |                                   |
| 01F6 | LATIN CAPITAL LETTER HWAIR                       |      |                                   |
| 01F7 | LATIN CAPITAL LETTER WYNN                        |      |                                   |
| 01F8 | LATIN CAPITAL LETTER N WITH GRAVE                |      |                                   |
| 01F9 | LATIN SMALL LETTER N WITH GRAVE                  |      |                                   |
| 01FA | LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE |      |                                   |
| 01FB | LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE   |      |                                   |
| 01FC | LATIN CAPITAL LETTER AE WITH ACUTE (ash) *       |      |                                   |
| 01FD | LATIN SMALL LETTER AE WITH ACUTE (ash) *         |      |                                   |
| 01FE | LATIN CAPITAL LETTER O WITH STROKE AND ACUTE     |      |                                   |
| 01FF | LATIN SMALL LETTER O WITH STROKE AND ACUTE       |      |                                   |
| 0200 | LATIN CAPITAL LETTER A WITH DOUBLE GRAVE         |      |                                   |
| 0201 | LATIN SMALL LETTER A WITH DOUBLE GRAVE           |      |                                   |
| 0202 | LATIN CAPITAL LETTER A WITH INVERTED BREVE       |      |                                   |
| 0203 | LATIN SMALL LETTER A WITH INVERTED BREVE         |      |                                   |
| 0204 | LATIN CAPITAL LETTER E WITH DOUBLE GRAVE         |      |                                   |
| 0205 | LATIN SMALL LETTER E WITH DOUBLE GRAVE           |      |                                   |
| 0206 | LATIN CAPITAL LETTER E WITH INVERTED BREVE       |      |                                   |
| 0207 | LATIN SMALL LETTER E WITH INVERTED BREVE         |      |                                   |
| 0208 | LATIN CAPITAL LETTER I WITH DOUBLE GRAVE         |      |                                   |
| 0209 | LATIN SMALL LETTER I WITH DOUBLE GRAVE           |      |                                   |
| 020A | LATIN CAPITAL LETTER I WITH INVERTED BREVE       |      |                                   |
| 020B | LATIN SMALL LETTER I WITH INVERTED BREVE         |      |                                   |
| 020C | LATIN CAPITAL LETTER O WITH DOUBLE GRAVE         |      |                                   |
| 020D | LATIN SMALL LETTER O WITH DOUBLE GRAVE           |      |                                   |
| 020E | LATIN CAPITAL LETTER O WITH INVERTED BREVE       |      |                                   |
| 020F | LATIN SMALL LETTER O WITH INVERTED BREVE         |      |                                   |
| 0210 | LATIN CAPITAL LETTER R WITH DOUBLE GRAVE         |      |                                   |
| 0211 | LATIN SMALL LETTER R WITH DOUBLE GRAVE           |      |                                   |
| 0212 | LATIN CAPITAL LETTER R WITH INVERTED BREVE       |      |                                   |
| 0213 | LATIN SMALL LETTER R WITH INVERTED BREVE         |      |                                   |
| 0214 | LATIN CAPITAL LETTER U WITH DOUBLE GRAVE         |      |                                   |
| 0215 | LATIN SMALL LETTER U WITH DOUBLE GRAVE           |      |                                   |
| 0216 | LATIN CAPITAL LETTER U WITH INVERTED BREVE       |      |                                   |
| 0217 | LATIN SMALL LETTER U WITH INVERTED BREVE         |      |                                   |
| 0218 | LATIN CAPITAL LETTER S WITH COMMA BELOW *        |      |                                   |
| 0219 | LATIN SMALL LETTER S WITH COMMA BELOW *          |      |                                   |
| 021A | LATIN CAPITAL LETTER T WITH COMMA BELOW *        |      |                                   |
| 021B | LATIN SMALL LETTER T WITH COMMA BELOW *          |      |                                   |
| 021C | LATIN CAPITAL LETTER YOGH                        |      |                                   |
| 021D | LATIN SMALL LETTER YOGH                          |      |                                   |
| 021E | LATIN CAPITAL LETTER H WITH CARON                |      |                                   |
| 021F | LATIN SMALL LETTER H WITH CARON                  |      |                                   |
| 0220 | LATIN CAPITAL LETTER N WITH LONG RIGHT LEG       |      |                                   |
| 0221 | (This position shall not be used)                |      |                                   |
| 0222 | LATIN CAPITAL LETTER OU                          |      |                                   |
| 0223 | LATIN SMALL LETTER OU                            |      |                                   |
| 0224 | LATIN CAPITAL LETTER Z WITH HOOK                 |      |                                   |
| 0225 | LATIN SMALL LETTER Z WITH HOOK                   |      |                                   |
| 0226 | LATIN CAPITAL LETTER A WITH DOT ABOVE            |      |                                   |
| 0227 | LATIN SMALL LETTER A WITH DOT ABOVE              |      |                                   |
| 0228 | LATIN CAPITAL LETTER E WITH CEDILLA              |      |                                   |
| 0229 | LATIN SMALL LETTER E WITH CEDILLA                |      |                                   |
| 022A | LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON |      |                                   |
| 022B | LATIN SMALL LETTER O WITH DIAERESIS AND MACRON   |      |                                   |
| 022C | LATIN CAPITAL LETTER O WITH TILDE AND MACRON     |      |                                   |
| 022D | LATIN SMALL LETTER O WITH TILDE AND MACRON       |      |                                   |
| 022E | LATIN CAPITAL LETTER O WITH DOT ABOVE            |      |                                   |
| 022F | LATIN SMALL LETTER O WITH DOT ABOVE              |      |                                   |
| 0230 | LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACRON |      |                                   |
| 0231 | LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON   |      |                                   |
| 0232 | LATIN CAPITAL LETTER Y WITH MACRON               |      |                                   |
| 0233 | LATIN SMALL LETTER Y WITH MACRON                 |      |                                   |
| 0234 | (This position shall not be used)                |      |                                   |
| 0235 | (This position shall not be used)                |      |                                   |
| 0236 | (This position shall not be used)                |      |                                   |
| 0237 | (This position shall not be used)                |      |                                   |
| 0238 | (This position shall not be used)                |      |                                   |
| 0239 | (This position shall not be used)                |      |                                   |
| 023A | (This position shall not be used)                |      |                                   |
| 023B | (This position shall not be used)                |      |                                   |
| 023C | (This position shall not be used)                |      |                                   |
| 023D | (This position shall not be used)                |      |                                   |
| 023E | (This position shall not be used)                |      |                                   |
| 023F | (This position shall not be used)                |      |                                   |
| 0240 | (This position shall not be used)                |      |                                   |
| 0241 | (This position shall not be used)                |      |                                   |
| 0242 | (This position shall not be used)                |      |                                   |
| 0243 | (This position shall not be used)                |      |                                   |
| 0244 | (This position shall not be used)                |      |                                   |
| 0245 | (This position shall not be used)                |      |                                   |
| 0246 | (This position shall not be used)                |      |                                   |
| 0247 | (This position shall not be used)                |      |                                   |
| 0248 | (This position shall not be used)                |      |                                   |
| 0249 | (This position shall not be used)                |      |                                   |
| 024A | (This position shall not be used)                |      |                                   |
| 024B | (This position shall not be used)                |      |                                   |
| 024C | (This position shall not be used)                |      |                                   |

Group 00

Plane 00

Row 01

**Table 9 - Row 03: Combining Diacritical Marks**

|   | 030                                                                                         | 031                                                                                         | 032                                                                                         | 033                                                                                         | 034                                                                                         | 035 | 036                                                                                          |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------|
| 0 | <br>0300   | <br>0310   | <br>0320   | <br>0330   | <br>0340   |     | <br>0360   |
| 1 | <br>0301   | <br>0311   | <br>0321   | <br>0331   | <br>0341   |     | <br>0361   |
| 2 | <br>0302   | <br>0312   | <br>0322   | <br>0332   | <br>0342   |     | <br>0362   |
| 3 | <br>0303   | <br>0313   | <br>0323   | <br>0333   | <br>0343   |     | <br>0363   |
| 4 | <br>0304   | <br>0314   | <br>0324   | <br>0334   | <br>0344   |     | <br>0364   |
| 5 | <br>0305   | <br>0315   | <br>0325   | <br>0335   | <br>0345   |     | <br>0365   |
| 6 | <br>0306   | <br>0316   | <br>0326   | <br>0336   | <br>0346   |     | <br>0366   |
| 7 | <br>0307 | <br>0317 | <br>0327 | <br>0337 | <br>0347 |     | <br>0367 |
| 8 | <br>0308 | <br>0318 | <br>0328 | <br>0338 | <br>0348 |     | <br>0368 |
| 9 | <br>0309 | <br>0319 | <br>0329 | <br>0339 | <br>0349 |     | <br>0369 |
| A | <br>030A | <br>031A | <br>032A | <br>033A | <br>034A |     | <br>036A |
| B | <br>030B | <br>031B | <br>032B | <br>033B | <br>034B |     | <br>036B |
| C | <br>030C | <br>031C | <br>032C | <br>033C | <br>034C |     | <br>036C |
| D | <br>030D | <br>031D | <br>032D | <br>033D | <br>034D |     | <br>036D |
| E | <br>030E | <br>031E | <br>032E | <br>033E | <br>034E |     | <br>036E |
| F | <br>030F | <br>031F | <br>032F | <br>033F | <br>034F |     | <br>036F |

G = 00  
P = 00

Table 9 - Row 03: Combining Diacritical Marks

| HEX  | NAME                                   | HEX  | NAME                                    |
|------|----------------------------------------|------|-----------------------------------------|
| 0300 | COMBINING GRAVE ACCENT (Varia)         | 035D | (This position shall not be used)       |
| 0301 | COMBINING ACUTE ACCENT (Oxia, Tonos)   | 035E | (This position shall not be used)       |
| 0302 | COMBINING CIRCUMFLEX ACCENT            | 035F | (This position shall not be used)       |
| 0303 | COMBINING TILDE                        | 0360 | COMBINING DOUBLE TILDE                  |
| 0304 | COMBINING MACRON                       | 0361 | COMBINING DOUBLE INVERTED BREVE         |
| 0305 | COMBINING OVERLINE                     | 0362 | COMBINING DOUBLE RIGHTWARDS ARROW BELOW |
| 0306 | COMBINING BREVE (Vrachy)               | 0363 | COMBINING LATIN SMALL LETTER A          |
| 0307 | COMBINING DOT ABOVE                    | 0364 | COMBINING LATIN SMALL LETTER E          |
| 0308 | COMBINING DIAERESIS (Dialytika)        | 0365 | COMBINING LATIN SMALL LETTER I          |
| 0309 | COMBINING HOOK ABOVE                   | 0366 | COMBINING LATIN SMALL LETTER O          |
| 030A | COMBINING RING ABOVE                   | 0367 | COMBINING LATIN SMALL LETTER U          |
| 030B | COMBINING DOUBLE ACUTE ACCENT          | 0368 | COMBINING LATIN SMALL LETTER C          |
| 030C | COMBINING CARON                        | 0369 | COMBINING LATIN SMALL LETTER D          |
| 030D | COMBINING VERTICAL LINE ABOVE          | 036A | COMBINING LATIN SMALL LETTER H          |
| 030E | COMBINING DOUBLE VERTICAL LINE ABOVE   | 036B | COMBINING LATIN SMALL LETTER M          |
| 030F | COMBINING DOUBLE GRAVE ACCENT          | 036C | COMBINING LATIN SMALL LETTER R          |
| 0310 | COMBINING CANDRABINDU                  | 036D | COMBINING LATIN SMALL LETTER T          |
| 0311 | COMBINING INVERTED BREVE               | 036E | COMBINING LATIN SMALL LETTER V          |
| 0312 | COMBINING TURNED COMMA ABOVE           | 036F | COMBINING LATIN SMALL LETTER X          |
| 0313 | COMBINING COMMA ABOVE (Psili)          |      |                                         |
| 0314 | COMBINING REVERSED COMMA ABOVE (Dasia) |      |                                         |
| 0315 | COMBINING COMMA ABOVE RIGHT            |      |                                         |
| 0316 | COMBINING GRAVE ACCENT BELOW           |      |                                         |
| 0317 | COMBINING ACUTE ACCENT BELOW           |      |                                         |
| 0318 | COMBINING LEFT TACK BELOW              |      |                                         |
| 0319 | COMBINING RIGHT TACK BELOW             |      |                                         |
| 031A | COMBINING LEFT ANGLE ABOVE             |      |                                         |
| 031B | COMBINING HORN                         |      |                                         |
| 031C | COMBINING LEFT HALF RING BELOW         |      |                                         |
| 031D | COMBINING UP TACK BELOW                |      |                                         |
| 031E | COMBINING DOWN TACK BELOW              |      |                                         |
| 031F | COMBINING PLUS SIGN BELOW              |      |                                         |
| 0320 | COMBINING MINUS SIGN BELOW             |      |                                         |
| 0321 | COMBINING PALATALIZED HOOK BELOW       |      |                                         |
| 0322 | COMBINING RETROFLEX HOOK BELOW         |      |                                         |
| 0323 | COMBINING DOT BELOW                    |      |                                         |
| 0324 | COMBINING DIAERESIS BELOW              |      |                                         |
| 0325 | COMBINING RING BELOW                   |      |                                         |
| 0326 | COMBINING COMMA BELOW                  |      |                                         |
| 0327 | COMBINING CEDILLA                      |      |                                         |
| 0328 | COMBINING OGONEK                       |      |                                         |
| 0329 | COMBINING VERTICAL LINE BELOW          |      |                                         |
| 032A | COMBINING BRIDGE BELOW                 |      |                                         |
| 032B | COMBINING INVERTED DOUBLE ARCH BELOW   |      |                                         |
| 032C | COMBINING CARON BELOW                  |      |                                         |
| 032D | COMBINING CIRCUMFLEX ACCENT BELOW      |      |                                         |
| 032E | COMBINING BREVE BELOW                  |      |                                         |
| 032F | COMBINING INVERTED BREVE BELOW         |      |                                         |
| 0330 | COMBINING TILDE BELOW                  |      |                                         |
| 0331 | COMBINING MACRON BELOW                 |      |                                         |
| 0332 | COMBINING LOW LINE                     |      |                                         |
| 0333 | COMBINING DOUBLE LOW LINE              |      |                                         |
| 0334 | COMBINING TILDE OVERLAY                |      |                                         |
| 0335 | COMBINING SHORT STROKE OVERLAY         |      |                                         |
| 0336 | COMBINING LONG STROKE OVERLAY          |      |                                         |
| 0337 | COMBINING SHORT SOLIDUS OVERLAY        |      |                                         |
| 0338 | COMBINING LONG SOLIDUS OVERLAY         |      |                                         |
| 0339 | COMBINING RIGHT HALF RING BELOW        |      |                                         |
| 033A | COMBINING INVERTED BRIDGE BELOW        |      |                                         |
| 033B | COMBINING SQUARE BELOW                 |      |                                         |
| 033C | COMBINING SEAGULL BELOW                |      |                                         |
| 033D | COMBINING X ABOVE                      |      |                                         |
| 033E | COMBINING VERTICAL TILDE               |      |                                         |
| 033F | COMBINING DOUBLE OVERLINE              |      |                                         |
| 0340 | COMBINING GRAVE TONE MARK (Vietnamese) |      |                                         |
| 0341 | COMBINING ACUTE TONE MARK (Vietnamese) |      |                                         |
| 0342 | COMBINING GREEK PERISPOMENI            |      |                                         |
| 0343 | COMBINING GREEK KORONIS                |      |                                         |
| 0344 | COMBINING GREEK DIALYTIKA TONOS        |      |                                         |
| 0345 | COMBINING GREEK YPOGEGRAMMENI          |      |                                         |
| 0346 | COMBINING BRIDGE ABOVE                 |      |                                         |
| 0347 | COMBINING EQUALS SIGN BELOW            |      |                                         |
| 0348 | COMBINING DOUBLE VERTICAL LINE BELOW   |      |                                         |
| 0349 | COMBINING LEFT ANGLE BELOW             |      |                                         |
| 034A | COMBINING NOT TILDE ABOVE              |      |                                         |
| 034B | COMBINING HOMOTHETIC ABOVE             |      |                                         |
| 034C | COMBINING ALMOST EQUAL TO ABOVE        |      |                                         |
| 034D | COMBINING LEFT RIGHT ARROW BELOW       |      |                                         |
| 034E | COMBINING UPWARDS ARROW BELOW          |      |                                         |
| 034F | COMBINING GRAPHEME JOINER              |      |                                         |
| 0350 | (This position shall not be used)      |      |                                         |
| 0351 | (This position shall not be used)      |      |                                         |
| 0352 | (This position shall not be used)      |      |                                         |
| 0353 | (This position shall not be used)      |      |                                         |
| 0354 | (This position shall not be used)      |      |                                         |
| 0355 | (This position shall not be used)      |      |                                         |
| 0356 | (This position shall not be used)      |      |                                         |
| 0357 | (This position shall not be used)      |      |                                         |
| 0358 | (This position shall not be used)      |      |                                         |
| 0359 | (This position shall not be used)      |      |                                         |
| 035A | (This position shall not be used)      |      |                                         |
| 035B | (This position shall not be used)      |      |                                         |
| 035C | (This position shall not be used)      |      |                                         |

Group 00

Plane 00

Row 03

Table 10 - Row 03: Greek and Coptic

|   | 037        | 038        | 039        | 03A        | 03B        | 03C        | 03D        | 03E        | 03F        |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 |            |            | ι̇<br>0390 | Π<br>03A0  | ϋ̇<br>03B0 | π<br>03C0  | β<br>03D0  | ϣ<br>03E0  | κ<br>03F0  |
| 1 |            |            | Α<br>0391  | Ρ<br>03A1  | α<br>03B1  | ρ<br>03C1  | ϑ<br>03D1  | ϣ̇<br>03E1 | ϙ<br>03F1  |
| 2 |            |            | Β<br>0392  |            | β<br>03B2  | ς<br>03C2  | Υ<br>03D2  | Ϡ<br>03E2  | Ϙ<br>03F2  |
| 3 |            |            | Γ<br>0393  | Σ<br>03A3  | γ<br>03B3  | σ<br>03C3  | Υ̇<br>03D3 | ϡ<br>03E3  | ϙ̇<br>03F3 |
| 4 | ‘<br>0374  | ’<br>0384  | Δ<br>0394  | Τ<br>03A4  | δ<br>03B4  | τ<br>03C4  | ÿ̇<br>03D4 | ϣ̇<br>03E4 | Θ<br>03F4  |
| 5 | /̇<br>0375 | ·̇<br>0385 | Ε<br>0395  | Υ<br>03A5  | ε<br>03B5  | υ<br>03C5  | φ<br>03D5  | ϥ<br>03E5  | Ε̇<br>03F5 |
| 6 |            | Α̇<br>0386 | Ζ<br>0396  | Φ<br>03A6  | ζ<br>03B6  | φ̇<br>03C6 | ϣ̇<br>03D6 | ϣ̇<br>03E6 | Ε̇<br>03F6 |
| 7 |            | ·<br>0387  | Η<br>0397  | Χ<br>03A7  | η<br>03B7  | χ<br>03C7  | ϝ<br>03D7  | ϣ̇<br>03E7 |            |
| 8 |            | Ε̇<br>0388 | Θ̇<br>0398 | Ψ<br>03A8  | θ<br>03B8  | ψ<br>03C8  | Q̇<br>03D8 | ϣ̇<br>03E8 |            |
| 9 |            | Η̇<br>0389 | Ι̇<br>0399 | Ω̇<br>03A9 | ι̇<br>03B9 | ω̇<br>03C9 | Q̇<br>03D9 | ϣ̇<br>03E9 |            |
| A | ι̇<br>037A | Ι̇<br>038A | Κ̇<br>039A | Ι̇<br>03AA | κ̇<br>03BA | ï̇<br>03CA | Σ̇<br>03DA | Χ̇<br>03EA |            |
| B |            |            | Λ̇<br>039B | ÿ̇<br>03AB | λ̇<br>03BB | ü̇<br>03CB | ς̇<br>03DB | ϣ̇<br>03EB |            |
| C |            | Ο̇<br>038C | Μ̇<br>039C | ά̇<br>03AC | μ̇<br>03BC | ó̇<br>03CC | Φ̇<br>03DC | ϣ̇<br>03EC |            |
| D |            |            | Ν̇<br>039D | έ̇<br>03AD | ν̇<br>03BD | ύ̇<br>03CD | Φ̇<br>03DD | ϣ̇<br>03ED |            |
| E | ;<br>037E  | Υ̇<br>038E | Ξ̇<br>039E | ή̇<br>03AE | ξ̇<br>03BE | ώ̇<br>03CE | ϣ̇<br>03DE | ϣ̇<br>03EE |            |
| F |            | Ω̇<br>038F | Ο̇<br>039F | ί̇<br>03AF | ο̇<br>03BF |            | ϣ̇<br>03DF | ϣ̇<br>03EF |            |

G = 00  
P = 00

Table 10 - Row 03: Greek and Coptic

| HEX  | NAME                                                | HEX  | NAME                                         |
|------|-----------------------------------------------------|------|----------------------------------------------|
| 0370 | (This position shall not be used)                   | 03CD | GREEK SMALL LETTER UPSILON WITH TONOS        |
| 0371 | (This position shall not be used)                   | 03CE | GREEK SMALL LETTER OMEGA WITH TONOS          |
| 0372 | (This position shall not be used)                   | 03CF | (This position shall not be used)            |
| 0373 | (This position shall not be used)                   | 03D0 | GREEK BETA SYMBOL                            |
| 0374 | GREEK NUMERAL SIGN (Dexia keraia)                   | 03D1 | GREEK THETA SYMBOL                           |
| 0375 | GREEK LOWER NUMERAL SIGN (Asteri keraia)            | 03D2 | GREEK UPSILON WITH HOOK SYMBOL               |
| 0376 | (This position shall not be used)                   | 03D3 | GREEK UPSILON WITH ACUTE AND HOOK SYMBOL     |
| 0377 | (This position shall not be used)                   | 03D4 | GREEK UPSILON WITH DIAERESIS AND HOOK SYMBOL |
| 0378 | (This position shall not be used)                   | 03D5 | GREEK PHI SYMBOL                             |
| 0379 | (This position shall not be used)                   | 03D6 | GREEK PI SYMBOL                              |
| 037A | GREEK YPOGRAMMENI                                   | 03D7 | GREEK KAI SYMBOL                             |
| 037B | (This position shall not be used)                   | 03D8 | GREEK LETTER ARCHAIC KOPPA *                 |
| 037C | (This position shall not be used)                   | 03D9 | GREEK SMALL LETTER ARCHAIC KOPPA *           |
| 037D | (This position shall not be used)                   | 03DA | GREEK LETTER STIGMA                          |
| 037E | GREEK QUESTION MARK (Eroimatiko)                    | 03DB | GREEK SMALL LETTER STIGMA                    |
| 037F | (This position shall not be used)                   | 03DC | GREEK LETTER DIGAMMA                         |
| 0380 | (This position shall not be used)                   | 03DD | GREEK SMALL LETTER DIGAMMA                   |
| 0381 | (This position shall not be used)                   | 03DE | GREEK LETTER KOPPA                           |
| 0382 | (This position shall not be used)                   | 03DF | GREEK SMALL LETTER KOPPA                     |
| 0383 | (This position shall not be used)                   | 03E0 | GREEK LETTER SAMPI                           |
| 0384 | GREEK TONOS                                         | 03E1 | GREEK SMALL LETTER SAMPI                     |
| 0385 | GREEK DIALYTIKA TONOS                               | 03E2 | COPTIC CAPITAL LETTER SHEI                   |
| 0386 | GREEK CAPITAL LETTER ALPHA WITH TONOS               | 03E3 | COPTIC SMALL LETTER SHEI                     |
| 0387 | GREEK ANO TELEIA                                    | 03E4 | COPTIC CAPITAL LETTER FEI                    |
| 0388 | GREEK CAPITAL LETTER EPSILON WITH TONOS             | 03E5 | COPTIC SMALL LETTER FEI                      |
| 0389 | GREEK CAPITAL LETTER ETA WITH TONOS                 | 03E6 | COPTIC CAPITAL LETTER KHEI                   |
| 038A | GREEK CAPITAL LETTER IOTA WITH TONOS                | 03E7 | COPTIC SMALL LETTER KHEI                     |
| 038B | (This position shall not be used)                   | 03E8 | COPTIC CAPITAL LETTER HORI                   |
| 038C | GREEK CAPITAL LETTER OMICRON WITH TONOS             | 03E9 | COPTIC SMALL LETTER HORI                     |
| 038D | (This position shall not be used)                   | 03EA | COPTIC CAPITAL LETTER GANGIA                 |
| 038E | GREEK CAPITAL LETTER UPSILON WITH TONOS             | 03EB | COPTIC SMALL LETTER GANGIA                   |
| 038F | GREEK CAPITAL LETTER OMEGA WITH TONOS               | 03EC | COPTIC CAPITAL LETTER SHIMA                  |
| 0390 | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS    | 03ED | COPTIC SMALL LETTER SHIMA                    |
| 0391 | GREEK CAPITAL LETTER ALPHA                          | 03EE | COPTIC CAPITAL LETTER DEI                    |
| 0392 | GREEK CAPITAL LETTER BETA                           | 03EF | COPTIC SMALL LETTER DEI                      |
| 0393 | GREEK CAPITAL LETTER GAMMA                          | 03F0 | GREEK KAPPA SYMBOL                           |
| 0394 | GREEK CAPITAL LETTER DELTA                          | 03F1 | GREEK RHO SYMBOL                             |
| 0395 | GREEK CAPITAL LETTER EPSILON                        | 03F2 | GREEK LUNATE SIGMA SYMBOL                    |
| 0396 | GREEK CAPITAL LETTER ZETA                           | 03F3 | GREEK LETTER YOT                             |
| 0397 | GREEK CAPITAL LETTER ETA                            | 03F4 | GREEK CAPITAL THETA SYMBOL                   |
| 0398 | GREEK CAPITAL LETTER THETA                          | 03F5 | GREEK LUNATE EPSILON SYMBOL                  |
| 0399 | GREEK CAPITAL LETTER IOTA                           | 03F6 | GREEK REVERSED LUNATE EPSILON SYMBOL         |
| 039A | GREEK CAPITAL LETTER KAPPA                          | 03F7 | (This position shall not be used)            |
| 039B | GREEK CAPITAL LETTER LAMDA                          | 03F8 | (This position shall not be used)            |
| 039C | GREEK CAPITAL LETTER MU                             | 03F9 | (This position shall not be used)            |
| 039D | GREEK CAPITAL LETTER NU                             | 03FA | (This position shall not be used)            |
| 039E | GREEK CAPITAL LETTER XI                             | 03FB | (This position shall not be used)            |
| 039F | GREEK CAPITAL LETTER OMICRON                        | 03FC | (This position shall not be used)            |
| 03A0 | GREEK CAPITAL LETTER PI                             | 03FD | (This position shall not be used)            |
| 03A1 | GREEK CAPITAL LETTER RHO                            | 03FE | (This position shall not be used)            |
| 03A2 | (This position shall not be used)                   | 03FF | (This position shall not be used)            |
| 03A3 | GREEK CAPITAL LETTER SIGMA                          |      |                                              |
| 03A4 | GREEK CAPITAL LETTER TAU                            |      |                                              |
| 03A5 | GREEK CAPITAL LETTER UPSILON                        |      |                                              |
| 03A6 | GREEK CAPITAL LETTER PHI                            |      |                                              |
| 03A7 | GREEK CAPITAL LETTER CHI                            |      |                                              |
| 03A8 | GREEK CAPITAL LETTER PSI                            |      |                                              |
| 03A9 | GREEK CAPITAL LETTER OMEGA                          |      |                                              |
| 03AA | GREEK CAPITAL LETTER IOTA WITH DIALYTIKA            |      |                                              |
| 03AB | GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA         |      |                                              |
| 03AC | GREEK SMALL LETTER ALPHA WITH TONOS                 |      |                                              |
| 03AD | GREEK SMALL LETTER EPSILON WITH TONOS               |      |                                              |
| 03AE | GREEK SMALL LETTER ETA WITH TONOS                   |      |                                              |
| 03AF | GREEK SMALL LETTER IOTA WITH TONOS                  |      |                                              |
| 03B0 | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS |      |                                              |
| 03B1 | GREEK SMALL LETTER ALPHA                            |      |                                              |
| 03B2 | GREEK SMALL LETTER BETA                             |      |                                              |
| 03B3 | GREEK SMALL LETTER GAMMA                            |      |                                              |
| 03B4 | GREEK SMALL LETTER DELTA                            |      |                                              |
| 03B5 | GREEK SMALL LETTER EPSILON                          |      |                                              |
| 03B6 | GREEK SMALL LETTER ZETA                             |      |                                              |
| 03B7 | GREEK SMALL LETTER ETA                              |      |                                              |
| 03B8 | GREEK SMALL LETTER THETA                            |      |                                              |
| 03B9 | GREEK SMALL LETTER IOTA                             |      |                                              |
| 03BA | GREEK SMALL LETTER KAPPA                            |      |                                              |
| 03BB | GREEK SMALL LETTER LAMDA                            |      |                                              |
| 03BC | GREEK SMALL LETTER MU                               |      |                                              |
| 03BD | GREEK SMALL LETTER NU                               |      |                                              |
| 03BE | GREEK SMALL LETTER XI                               |      |                                              |
| 03BF | GREEK SMALL LETTER OMICRON                          |      |                                              |
| 03C0 | GREEK SMALL LETTER PI                               |      |                                              |
| 03C1 | GREEK SMALL LETTER RHO                              |      |                                              |
| 03C2 | GREEK SMALL LETTER FINAL SIGMA                      |      |                                              |
| 03C3 | GREEK SMALL LETTER SIGMA                            |      |                                              |
| 03C4 | GREEK SMALL LETTER TAU                              |      |                                              |
| 03C5 | GREEK SMALL LETTER UPSILON                          |      |                                              |
| 03C6 | GREEK SMALL LETTER PHI                              |      |                                              |
| 03C7 | GREEK SMALL LETTER CHI                              |      |                                              |
| 03C8 | GREEK SMALL LETTER PSI                              |      |                                              |
| 03C9 | GREEK SMALL LETTER OMEGA                            |      |                                              |
| 03CA | GREEK SMALL LETTER IOTA WITH DIALYTIKA              |      |                                              |
| 03CB | GREEK SMALL LETTER UPSILON WITH DIALYTIKA           |      |                                              |
| 03CC | GREEK SMALL LETTER OMICRON WITH TONOS               |      |                                              |

Group 00

Plane 00

Row 03

Table 12 - Row 04: Cyrillic

|   | 048        | 049        | 04A        | 04B        | 04C        | 04D        | 04E        | 04F        |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | Ѐ<br>0480  | Ґ<br>0490  | Ҁ<br>04A0  | ҁ<br>04B0  | І<br>04C0  | Ӑ<br>04D0  | ӑ<br>04E0  | Ӓ<br>04F0  |
| 1 | ҃<br>0481  | ҄<br>0491  | ҅<br>04A1  | ҆<br>04B1  | ҇<br>04C1  | ҈<br>04D1  | ҉<br>04E1  | Ҋ<br>04F1  |
| 2 | ҋ<br>0482  | Ҍ<br>0492  | ҍ<br>04A2  | Ҏ<br>04B2  | ҏ<br>04C2  | Ґ<br>04D2  | ґ<br>04E2  | ҕ<br>04F2  |
| 3 | ґ̇<br>0483 | ҕ̇<br>0493 | ҕ̇<br>04A3 | ҕ̇<br>04B3 | ҕ̇<br>04C3 | ҕ̇<br>04D3 | ҕ̇<br>04E3 | ҕ̇<br>04F3 |
| 4 | ҕ̇<br>0484 | ҕ̇<br>0494 | ҕ̇<br>04A4 | ҕ̇<br>04B4 | ҕ̇<br>04C4 | ҕ̇<br>04D4 | ҕ̇<br>04E4 | ҕ̇<br>04F4 |
| 5 | ҕ̇<br>0485 | ҕ̇<br>0495 | ҕ̇<br>04A5 | ҕ̇<br>04B5 | ҕ̇<br>04C5 | ҕ̇<br>04D5 | ҕ̇<br>04E5 | ҕ̇<br>04F5 |
| 6 | ҕ̇<br>0486 | ҕ̇<br>0496 | ҕ̇<br>04A6 | ҕ̇<br>04B6 | ҕ̇<br>04C6 | ҕ̇<br>04D6 | ҕ̇<br>04E6 |            |
| 7 |            | ҕ̇<br>0497 | ҕ̇<br>04A7 | ҕ̇<br>04B7 | ҕ̇<br>04C7 | ҕ̇<br>04D7 | ҕ̇<br>04E7 |            |
| 8 | ҕ̇<br>0488 | ҕ̇<br>0498 | ҕ̇<br>04A8 | ҕ̇<br>04B8 | ҕ̇<br>04C8 | ҕ̇<br>04D8 | ҕ̇<br>04E8 | ҕ̇<br>04F8 |
| 9 | ҕ̇<br>0489 | ҕ̇<br>0499 | ҕ̇<br>04A9 | ҕ̇<br>04B9 | ҕ̇<br>04C9 | ҕ̇<br>04D9 | ҕ̇<br>04E9 | ҕ̇<br>04F9 |
| A | ҕ̇<br>048A | ҕ̇<br>049A | ҕ̇<br>04AA | ҕ̇<br>04BA | ҕ̇<br>04CA | ҕ̇<br>04DA | ҕ̇<br>04EA |            |
| B | ҕ̇<br>048B | ҕ̇<br>049B | ҕ̇<br>04AB | ҕ̇<br>04BB | ҕ̇<br>04CB | ҕ̇<br>04DB | ҕ̇<br>04EB |            |
| C | ҕ̇<br>048C | ҕ̇<br>049C | ҕ̇<br>04AC | ҕ̇<br>04BC | ҕ̇<br>04CC | ҕ̇<br>04DC | ҕ̇<br>04EC |            |
| D | ҕ̇<br>048D | ҕ̇<br>049D | ҕ̇<br>04AD | ҕ̇<br>04BD | ҕ̇<br>04CD | ҕ̇<br>04DD | ҕ̇<br>04ED |            |
| E | ҕ̇<br>048E | ҕ̇<br>049E | ҕ̇<br>04AE | ҕ̇<br>04BE | ҕ̇<br>04CE | ҕ̇<br>04DE | ҕ̇<br>04EE |            |
| F | ҕ̇<br>048F | ҕ̇<br>049F | ҕ̇<br>04AF | ҕ̇<br>04BF |            | ҕ̇<br>04DF | ҕ̇<br>04EF |            |

G = 00  
P = 00

Table 12 - Row 04: Cyrillic

| HEX  | NAME                                                     | HEX  | NAME                                            |
|------|----------------------------------------------------------|------|-------------------------------------------------|
| 0480 | CYRILLIC CAPITAL LETTER KOPPA                            | 04DD | CYRILLIC SMALL LETTER ZHE WITH DIAERESIS        |
| 0481 | CYRILLIC SMALL LETTER KOPPA                              | 04DE | CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS       |
| 0482 | CYRILLIC THOUSANDS SIGN                                  | 04DF | CYRILLIC SMALL LETTER ZE WITH DIAERESIS         |
| 0483 | COMBINING CYRILLIC TITLO                                 | 04E0 | CYRILLIC CAPITAL LETTER ABKHASIAN DZE           |
| 0484 | COMBINING CYRILLIC PALATALIZATION                        | 04E1 | CYRILLIC SMALL LETTER ABKHASIAN DZE             |
| 0485 | COMBINING CYRILLIC DASIA PNEUMATA                        | 04E2 | CYRILLIC CAPITAL LETTER I WITH MACRON           |
| 0486 | COMBINING CYRILLIC PSILI PNEUMATA                        | 04E3 | CYRILLIC SMALL LETTER I WITH MACRON             |
| 0487 | (This position shall not be used)                        | 04E4 | CYRILLIC CAPITAL LETTER I WITH DIAERESIS        |
| 0488 | COMBINING CYRILLIC HUNDRED THOUSANDS SIGN                | 04E5 | CYRILLIC SMALL LETTER I WITH DIAERESIS          |
| 0489 | COMBINING CYRILLIC MILLIONS SIGN                         | 04E6 | CYRILLIC CAPITAL LETTER O WITH DIAERESIS        |
| 048A | CYRILLIC CAPITAL LETTER SHORT I WITH TAIL                | 04E7 | CYRILLIC SMALL LETTER O WITH DIAERESIS          |
| 048B | CYRILLIC SMALL LETTER SHORT I WITH TAIL                  | 04E8 | CYRILLIC CAPITAL LETTER BARRED O                |
| 048C | CYRILLIC CAPITAL LETTER SEMISOFT SIGN                    | 04E9 | CYRILLIC SMALL LETTER BARRED O                  |
| 048D | CYRILLIC SMALL LETTER SEMISOFT SIGN                      | 04EA | CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS |
| 048E | CYRILLIC CAPITAL LETTER ER WITH TICK                     | 04EB | CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS   |
| 048F | CYRILLIC SMALL LETTER ER WITH TICK                       | 04EC | CYRILLIC CAPITAL LETTER E WITH DIAERESIS        |
| 0490 | CYRILLIC CAPITAL LETTER GHE WITH UPTURN                  | 04ED | CYRILLIC SMALL LETTER E WITH DIAERESIS          |
| 0491 | CYRILLIC SMALL LETTER GHE WITH UPTURN                    | 04EE | CYRILLIC CAPITAL LETTER U WITH MACRON           |
| 0492 | CYRILLIC CAPITAL LETTER GHE WITH STROKE                  | 04EF | CYRILLIC SMALL LETTER U WITH MACRON             |
| 0493 | CYRILLIC SMALL LETTER GHE WITH STROKE                    | 04F0 | CYRILLIC CAPITAL LETTER U WITH DIAERESIS        |
| 0494 | CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK             | 04F1 | CYRILLIC SMALL LETTER U WITH DIAERESIS          |
| 0495 | CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK               | 04F2 | CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE     |
| 0496 | CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER               | 04F3 | CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE       |
| 0497 | CYRILLIC SMALL LETTER ZHE WITH DESCENDER                 | 04F4 | CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS      |
| 0498 | CYRILLIC CAPITAL LETTER ZE WITH DESCENDER                | 04F5 | CYRILLIC SMALL LETTER CHE WITH DIAERESIS        |
| 0499 | CYRILLIC SMALL LETTER ZE WITH DESCENDER                  | 04F6 | (This position shall not be used)               |
| 049A | CYRILLIC CAPITAL LETTER KA WITH DESCENDER                | 04F7 | (This position shall not be used)               |
| 049B | CYRILLIC SMALL LETTER KA WITH DESCENDER                  | 04F8 | CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS     |
| 049C | CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE          | 04F9 | CYRILLIC SMALL LETTER YERU WITH DIAERESIS       |
| 049D | CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE            | 04FA | (This position shall not be used)               |
| 049E | CYRILLIC CAPITAL LETTER KA WITH STROKE                   | 04FB | (This position shall not be used)               |
| 049F | CYRILLIC SMALL LETTER KA WITH STROKE                     | 04FC | (This position shall not be used)               |
| 04A0 | CYRILLIC CAPITAL LETTER BASHKIR KA                       | 04FD | (This position shall not be used)               |
| 04A1 | CYRILLIC SMALL LETTER BASHKIR KA                         | 04FE | (This position shall not be used)               |
| 04A2 | CYRILLIC CAPITAL LETTER EN WITH DESCENDER                | 04FF | (This position shall not be used)               |
| 04A3 | CYRILLIC SMALL LETTER EN WITH DESCENDER                  |      |                                                 |
| 04A4 | CYRILLIC CAPITAL LIGATURE EN GHE                         |      |                                                 |
| 04A5 | CYRILLIC SMALL LIGATURE EN GHE                           |      |                                                 |
| 04A6 | CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK (Abkhassian) |      |                                                 |
| 04A7 | CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK (Abkhassian)   |      |                                                 |
| 04A8 | CYRILLIC CAPITAL LETTER ABKHASIAN HA                     |      |                                                 |
| 04A9 | CYRILLIC SMALL LETTER ABKHASIAN HA                       |      |                                                 |
| 04AA | CYRILLIC CAPITAL LETTER ES WITH DESCENDER                |      |                                                 |
| 04AB | CYRILLIC SMALL LETTER ES WITH DESCENDER                  |      |                                                 |
| 04AC | CYRILLIC CAPITAL LETTER TE WITH DESCENDER                |      |                                                 |
| 04AD | CYRILLIC SMALL LETTER TE WITH DESCENDER                  |      |                                                 |
| 04AE | CYRILLIC CAPITAL LETTER STRAIGHT U                       |      |                                                 |
| 04AF | CYRILLIC SMALL LETTER STRAIGHT U                         |      |                                                 |
| 04B0 | CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE           |      |                                                 |
| 04B1 | CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE             |      |                                                 |
| 04B2 | CYRILLIC CAPITAL LETTER HA WITH DESCENDER                |      |                                                 |
| 04B3 | CYRILLIC SMALL LETTER HA WITH DESCENDER                  |      |                                                 |
| 04B4 | CYRILLIC CAPITAL LIGATURE TE TSE (Abkhassian)            |      |                                                 |
| 04B5 | CYRILLIC SMALL LIGATURE TE TSE (Abkhassian)              |      |                                                 |
| 04B6 | CYRILLIC CAPITAL LETTER CHE WITH DESCENDER               |      |                                                 |
| 04B7 | CYRILLIC SMALL LETTER CHE WITH DESCENDER                 |      |                                                 |
| 04B8 | CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE         |      |                                                 |
| 04B9 | CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE           |      |                                                 |
| 04BA | CYRILLIC CAPITAL LETTER SHHA                             |      |                                                 |
| 04BB | CYRILLIC SMALL LETTER SHHA                               |      |                                                 |
| 04BC | CYRILLIC CAPITAL LETTER ABKHASIAN CHE                    |      |                                                 |
| 04BD | CYRILLIC SMALL LETTER ABKHASIAN CHE                      |      |                                                 |
| 04BE | CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER     |      |                                                 |
| 04BF | CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER       |      |                                                 |
| 04C0 | CYRILLIC LETTER PALOCHKA                                 |      |                                                 |
| 04C1 | CYRILLIC CAPITAL LETTER ZHE WITH BREVE                   |      |                                                 |
| 04C2 | CYRILLIC SMALL LETTER ZHE WITH BREVE                     |      |                                                 |
| 04C3 | CYRILLIC CAPITAL LETTER KA WITH HOOK                     |      |                                                 |
| 04C4 | CYRILLIC SMALL LETTER KA WITH HOOK                       |      |                                                 |
| 04C5 | CYRILLIC CAPITAL LETTER EL WITH TAIL                     |      |                                                 |
| 04C6 | CYRILLIC SMALL LETTER EL WITH TAIL                       |      |                                                 |
| 04C7 | CYRILLIC CAPITAL LETTER EN WITH HOOK                     |      |                                                 |
| 04C8 | CYRILLIC SMALL LETTER EN WITH HOOK                       |      |                                                 |
| 04C9 | CYRILLIC CAPITAL LETTER EN WITH TAIL                     |      |                                                 |
| 04CA | CYRILLIC SMALL LETTER EN WITH TAIL                       |      |                                                 |
| 04CB | CYRILLIC CAPITAL LETTER KHAKASSIAN CHE                   |      |                                                 |
| 04CC | CYRILLIC SMALL LETTER KHAKASSIAN CHE                     |      |                                                 |
| 04CD | CYRILLIC CAPITAL LETTER EM WITH TAIL                     |      |                                                 |
| 04CE | CYRILLIC SMALL LETTER EM WITH TAIL                       |      |                                                 |
| 04CF | (This position shall not be used)                        |      |                                                 |
| 04D0 | CYRILLIC CAPITAL LETTER A WITH BREVE                     |      |                                                 |
| 04D1 | CYRILLIC SMALL LETTER A WITH BREVE                       |      |                                                 |
| 04D2 | CYRILLIC CAPITAL LETTER A WITH DIAERESIS                 |      |                                                 |
| 04D3 | CYRILLIC SMALL LETTER A WITH DIAERESIS                   |      |                                                 |
| 04D4 | CYRILLIC CAPITAL LIGATURE A IE                           |      |                                                 |
| 04D5 | CYRILLIC SMALL LIGATURE A IE                             |      |                                                 |
| 04D6 | CYRILLIC CAPITAL LETTER IE WITH BREVE                    |      |                                                 |
| 04D7 | CYRILLIC SMALL LETTER IE WITH BREVE                      |      |                                                 |
| 04D8 | CYRILLIC CAPITAL LETTER SCHWA                            |      |                                                 |
| 04D9 | CYRILLIC SMALL LETTER SCHWA                              |      |                                                 |
| 04DA | CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS             |      |                                                 |
| 04DB | CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS               |      |                                                 |
| 04DC | CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS               |      |                                                 |

Group 00

Plane 00

Row 04

**Table 13 - Row 05: Cyrillic Supplement**

|   | 050       | 051 | 052 |
|---|-----------|-----|-----|
| 0 | Д<br>0500 |     |     |
| 1 | д<br>0501 |     |     |
| 2 | Ѓ<br>0502 |     |     |
| 3 | ѓ<br>0503 |     |     |
| 4 | Ѕ<br>0504 |     |     |
| 5 | ѕ<br>0505 |     |     |
| 6 | Њ<br>0506 |     |     |
| 7 | њ<br>0507 |     |     |
| 8 | Љ<br>0508 |     |     |
| 9 | љ<br>0509 |     |     |
| A | Ѝ<br>050A |     |     |
| B | ѐ<br>050B |     |     |
| C | Ґ<br>050C |     |     |
| D | ґ<br>050D |     |     |
| E | Ҕ<br>050E |     |     |
| F | ҕ<br>050F |     |     |

**G = 00**  
**P = 00**

Table 13 - Row 05: Cyrillic Supplement

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 0500 | CYRILLIC CAPITAL LETTER KOMI DE   |     |      |
| 0501 | CYRILLIC SMALL LETTER KOMI DE     |     |      |
| 0502 | CYRILLIC CAPITAL LETTER KOMI DJE  |     |      |
| 0503 | CYRILLIC SMALL LETTER KOMI DJE    |     |      |
| 0504 | CYRILLIC CAPITAL LETTER KOMI ZJE  |     |      |
| 0505 | CYRILLIC SMALL LETTER KOMI ZJE    |     |      |
| 0506 | CYRILLIC CAPITAL LETTER KOMI DZJE |     |      |
| 0507 | CYRILLIC SMALL LETTER KOMI DZJE   |     |      |
| 0508 | CYRILLIC CAPITAL LETTER KOMI LJE  |     |      |
| 0509 | CYRILLIC SMALL LETTER KOMI LJE    |     |      |
| 050A | CYRILLIC CAPITAL LETTER KOMI NJE  |     |      |
| 050B | CYRILLIC SMALL LETTER KOMI NJE    |     |      |
| 050C | CYRILLIC CAPITAL LETTER KOMI SJE  |     |      |
| 050D | CYRILLIC SMALL LETTER KOMI SJE    |     |      |
| 050E | CYRILLIC CAPITAL LETTER KOMI TJE  |     |      |
| 050F | CYRILLIC SMALL LETTER KOMI TJE    |     |      |
| 0510 | (This position shall not be used) |     |      |
| 0511 | (This position shall not be used) |     |      |
| 0512 | (This position shall not be used) |     |      |
| 0513 | (This position shall not be used) |     |      |
| 0514 | (This position shall not be used) |     |      |
| 0515 | (This position shall not be used) |     |      |
| 0516 | (This position shall not be used) |     |      |
| 0517 | (This position shall not be used) |     |      |
| 0518 | (This position shall not be used) |     |      |
| 0519 | (This position shall not be used) |     |      |
| 051A | (This position shall not be used) |     |      |
| 051B | (This position shall not be used) |     |      |
| 051C | (This position shall not be used) |     |      |
| 051D | (This position shall not be used) |     |      |
| 051E | (This position shall not be used) |     |      |
| 051F | (This position shall not be used) |     |      |
| 0520 | (This position shall not be used) |     |      |
| 0521 | (This position shall not be used) |     |      |
| 0522 | (This position shall not be used) |     |      |
| 0523 | (This position shall not be used) |     |      |
| 0524 | (This position shall not be used) |     |      |
| 0525 | (This position shall not be used) |     |      |
| 0526 | (This position shall not be used) |     |      |
| 0527 | (This position shall not be used) |     |      |
| 0528 | (This position shall not be used) |     |      |
| 0529 | (This position shall not be used) |     |      |
| 052A | (This position shall not be used) |     |      |
| 052B | (This position shall not be used) |     |      |
| 052C | (This position shall not be used) |     |      |
| 052D | (This position shall not be used) |     |      |
| 052E | (This position shall not be used) |     |      |
| 052F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 05

Table 16 - Row 06: Arabic

|   | 060       | 061       | 062       | 063       | 064        | 065        | 066        | 067        |
|---|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| 0 |           |           |           | ذ<br>0630 | -<br>0640  | ◌ْ<br>0650 | ◌ُ<br>0660 | ◌ِ<br>0670 |
| 1 |           |           | ء<br>0621 | ر<br>0631 | ف<br>0641  | ◌َ<br>0651 | ا<br>0661  | آ<br>0671  |
| 2 |           |           | آ<br>0622 | ز<br>0632 | ق<br>0642  | ◌ُ<br>0652 | ب<br>0662  | أ<br>0672  |
| 3 |           |           | أ<br>0623 | س<br>0633 | ك<br>0643  | ◌ِ<br>0653 | ث<br>0663  | إ<br>0673  |
| 4 |           |           | ؤ<br>0624 | ش<br>0634 | ل<br>0644  | ◌ُ<br>0654 | ع<br>0664  | أ<br>0674  |
| 5 |           |           | إ<br>0625 | ص<br>0635 | م<br>0645  | ◌ْ<br>0655 | ه<br>0665  | أ<br>0675  |
| 6 |           |           | ئ<br>0626 | ض<br>0636 | ن<br>0646  |            | ه<br>0666  | ؤ<br>0676  |
| 7 |           |           | ا<br>0627 | ط<br>0637 | ه<br>0647  |            | و<br>0667  | ؤ<br>0677  |
| 8 |           |           | ب<br>0628 | ظ<br>0638 | و<br>0648  |            | ه<br>0668  | ئ<br>0678  |
| 9 |           |           | ة<br>0629 | ع<br>0639 | ي<br>0649  |            | و<br>0669  | ط<br>0679  |
| A |           |           | ت<br>062A | غ<br>063A | ي<br>064A  |            | ٪<br>066A  | ث<br>067A  |
| B |           | ؛<br>061B | ث<br>062B |           | ◌َ<br>064B |            | ر<br>066B  | پ<br>067B  |
| C | ،<br>060C |           | ج<br>062C |           | ◌ِ<br>064C |            | ،<br>066C  | ت<br>067C  |
| D |           |           | ح<br>062D |           | ◌ُ<br>064D |            | ★<br>066D  | ت<br>067D  |
| E |           |           | خ<br>062E |           | ◌ِ<br>064E |            | ب<br>066E  | پ<br>067E  |
| F |           | ؟<br>061F | د<br>062F |           | ◌ُ<br>064F |            | و<br>066F  | ث<br>067F  |

G = 00  
P = 00

Table 16 - Row 06: Arabic

| HEX  | NAME                                | HEX  | NAME                                              |
|------|-------------------------------------|------|---------------------------------------------------|
| 0600 | (This position shall not be used)   | 065D | (This position shall not be used)                 |
| 0601 | (This position shall not be used)   | 065E | (This position shall not be used)                 |
| 0602 | (This position shall not be used)   | 065F | (This position shall not be used)                 |
| 0603 | (This position shall not be used)   | 0660 | ARABIC-INDIC DIGIT ZERO                           |
| 0604 | (This position shall not be used)   | 0661 | ARABIC-INDIC DIGIT ONE                            |
| 0605 | (This position shall not be used)   | 0662 | ARABIC-INDIC DIGIT TWO                            |
| 0606 | (This position shall not be used)   | 0663 | ARABIC-INDIC DIGIT THREE                          |
| 0607 | (This position shall not be used)   | 0664 | ARABIC-INDIC DIGIT FOUR                           |
| 0608 | (This position shall not be used)   | 0665 | ARABIC-INDIC DIGIT FIVE                           |
| 0609 | (This position shall not be used)   | 0666 | ARABIC-INDIC DIGIT SIX                            |
| 060A | (This position shall not be used)   | 0667 | ARABIC-INDIC DIGIT SEVEN                          |
| 060B | (This position shall not be used)   | 0668 | ARABIC-INDIC DIGIT EIGHT                          |
| 060C | ARABIC COMMA                        | 0669 | ARABIC-INDIC DIGIT NINE                           |
| 060D | (This position shall not be used)   | 066A | ARABIC PERCENT SIGN                               |
| 060E | (This position shall not be used)   | 066B | ARABIC DECIMAL SEPARATOR                          |
| 060F | (This position shall not be used)   | 066C | ARABIC THOUSANDS SEPARATOR                        |
| 0610 | (This position shall not be used)   | 066D | ARABIC FIVE POINTED STAR                          |
| 0611 | (This position shall not be used)   | 066E | ARABIC LETTER DOTLESS BEH                         |
| 0612 | (This position shall not be used)   | 066F | ARABIC LETTER DOTLESS QAF                         |
| 0613 | (This position shall not be used)   | 0670 | ARABIC LETTER SUPERScript ALEF                    |
| 0614 | (This position shall not be used)   | 0671 | ARABIC LETTER ALEF WASLA                          |
| 0615 | (This position shall not be used)   | 0672 | ARABIC LETTER ALEF WITH WAVY HAMZA ABOVE          |
| 0616 | (This position shall not be used)   | 0673 | ARABIC LETTER ALEF WITH WAVY HAMZA BELOW          |
| 0617 | (This position shall not be used)   | 0674 | ARABIC LETTER HIGH HAMZA                          |
| 0618 | (This position shall not be used)   | 0675 | ARABIC LETTER HIGH HAMZA ALEF                     |
| 0619 | (This position shall not be used)   | 0676 | ARABIC LETTER HIGH HAMZA WAW                      |
| 061A | (This position shall not be used)   | 0677 | ARABIC LETTER U WITH HAMZA ABOVE                  |
| 061B | ARABIC SEMICOLON                    | 0678 | ARABIC LETTER HIGH HAMZA YEH                      |
| 061C | (This position shall not be used)   | 0679 | ARABIC LETTER TEH                                 |
| 061D | (This position shall not be used)   | 067A | ARABIC LETTER TEHEH                               |
| 061E | (This position shall not be used)   | 067B | ARABIC LETTER BEEH                                |
| 061F | ARABIC QUESTION MARK                | 067C | ARABIC LETTER TEH WITH RING                       |
| 0620 | (This position shall not be used)   | 067D | ARABIC LETTER TEH WITH THREE DOTS ABOVE DOWNWARDS |
| 0621 | ARABIC LETTER HAMZA                 | 067E | ARABIC LETTER PEH                                 |
| 0622 | ARABIC LETTER ALEF WITH MADDA ABOVE | 067F | ARABIC LETTER TEHEH                               |
| 0623 | ARABIC LETTER ALEF WITH HAMZA ABOVE |      |                                                   |
| 0624 | ARABIC LETTER WAW WITH HAMZA ABOVE  |      |                                                   |
| 0625 | ARABIC LETTER ALEF WITH HAMZA BELOW |      |                                                   |
| 0626 | ARABIC LETTER YEH WITH HAMZA ABOVE  |      |                                                   |
| 0627 | ARABIC LETTER ALEF                  |      |                                                   |
| 0628 | ARABIC LETTER BEH                   |      |                                                   |
| 0629 | ARABIC LETTER TEH MARBUTA           |      |                                                   |
| 062A | ARABIC LETTER TEH                   |      |                                                   |
| 062B | ARABIC LETTER THEH                  |      |                                                   |
| 062C | ARABIC LETTER JEEM                  |      |                                                   |
| 062D | ARABIC LETTER HAH                   |      |                                                   |
| 062E | ARABIC LETTER KHAH                  |      |                                                   |
| 062F | ARABIC LETTER DAL                   |      |                                                   |
| 0630 | ARABIC LETTER THAL                  |      |                                                   |
| 0631 | ARABIC LETTER REH                   |      |                                                   |
| 0632 | ARABIC LETTER ZAIN                  |      |                                                   |
| 0633 | ARABIC LETTER SEEN                  |      |                                                   |
| 0634 | ARABIC LETTER SHEEN                 |      |                                                   |
| 0635 | ARABIC LETTER SAD                   |      |                                                   |
| 0636 | ARABIC LETTER DAD                   |      |                                                   |
| 0637 | ARABIC LETTER TAH                   |      |                                                   |
| 0638 | ARABIC LETTER ZAH                   |      |                                                   |
| 0639 | ARABIC LETTER AIN                   |      |                                                   |
| 063A | ARABIC LETTER GHAIN                 |      |                                                   |
| 063B | (This position shall not be used)   |      |                                                   |
| 063C | (This position shall not be used)   |      |                                                   |
| 063D | (This position shall not be used)   |      |                                                   |
| 063E | (This position shall not be used)   |      |                                                   |
| 063F | (This position shall not be used)   |      |                                                   |
| 0640 | ARABIC TATWEEL                      |      |                                                   |
| 0641 | ARABIC LETTER FEH                   |      |                                                   |
| 0642 | ARABIC LETTER QAF                   |      |                                                   |
| 0643 | ARABIC LETTER KAF                   |      |                                                   |
| 0644 | ARABIC LETTER LAM                   |      |                                                   |
| 0645 | ARABIC LETTER MEEM                  |      |                                                   |
| 0646 | ARABIC LETTER NOON                  |      |                                                   |
| 0647 | ARABIC LETTER HEH                   |      |                                                   |
| 0648 | ARABIC LETTER WAW                   |      |                                                   |
| 0649 | ARABIC LETTER ALEF MAKSURA          |      |                                                   |
| 064A | ARABIC LETTER YEH                   |      |                                                   |
| 064B | ARABIC FATHATAN                     |      |                                                   |
| 064C | ARABIC DAMMATAN                     |      |                                                   |
| 064D | ARABIC KASRATAN                     |      |                                                   |
| 064E | ARABIC FATHA                        |      |                                                   |
| 064F | ARABIC DAMMA                        |      |                                                   |
| 0650 | ARABIC KASRA                        |      |                                                   |
| 0651 | ARABIC SHADDA                       |      |                                                   |
| 0652 | ARABIC SUKUN                        |      |                                                   |
| 0653 | ARABIC MADDAH ABOVE                 |      |                                                   |
| 0654 | ARABIC HAMZA ABOVE                  |      |                                                   |
| 0655 | ARABIC HAMZA BELOW                  |      |                                                   |
| 0656 | (This position shall not be used)   |      |                                                   |
| 0657 | (This position shall not be used)   |      |                                                   |
| 0658 | (This position shall not be used)   |      |                                                   |
| 0659 | (This position shall not be used)   |      |                                                   |
| 065A | (This position shall not be used)   |      |                                                   |
| 065B | (This position shall not be used)   |      |                                                   |
| 065C | (This position shall not be used)   |      |                                                   |

Group 00

Plane 00

Row 06

Table 19 - Row 07: Thaana

078 079 07A 07B

|   |                                                                                             |                                                                                             |                                                                                             |                                                                                           |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 0 | <br>0780   | <br>0790   | <br>07A0   | <br>07B0 |
| 1 | <br>0781   | <br>0791   | <br>07A1   | <br>07B1 |
| 2 | <br>0782   | <br>0792   | <br>07A2   |                                                                                           |
| 3 | <br>0783   | <br>0793   | <br>07A3   |                                                                                           |
| 4 | <br>0784   | <br>0794   | <br>07A4   |                                                                                           |
| 5 | <br>0785   | <br>0795   | <br>07A5   |                                                                                           |
| 6 | <br>0786   | <br>0796   | <br>07A6   |                                                                                           |
| 7 | <br>0787 | <br>0797 | <br>07A7 |                                                                                           |
| 8 | <br>0788 | <br>0798 | <br>07A8 |                                                                                           |
| 9 | <br>0789 | <br>0799 | <br>07A9 |                                                                                           |
| A | <br>078A | <br>079A | <br>07AA |                                                                                           |
| B | <br>078B | <br>079B | <br>07AB |                                                                                           |
| C | <br>078C | <br>079C | <br>07AC |                                                                                           |
| D | <br>078D | <br>079D | <br>07AD |                                                                                           |
| E | <br>078E | <br>079E | <br>07AE |                                                                                           |
| F | <br>078F | <br>079F | <br>07AF |                                                                                           |

G = 00  
P = 00

Table 19 - Row 07: Thaana

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 0780 | THAANA LETTER HAA                 |     |      |
| 0781 | THAANA LETTER SHAVIYANI           |     |      |
| 0782 | THAANA LETTER NOONU               |     |      |
| 0783 | THAANA LETTER RAA                 |     |      |
| 0784 | THAANA LETTER BAA                 |     |      |
| 0785 | THAANA LETTER LHAVIYANI           |     |      |
| 0786 | THAANA LETTER KAAFU               |     |      |
| 0787 | THAANA LETTER ALIFU               |     |      |
| 0788 | THAANA LETTER VAAVU               |     |      |
| 0789 | THAANA LETTER MEEMU               |     |      |
| 078A | THAANA LETTER FAFU                |     |      |
| 078B | THAANA LETTER DHAALU              |     |      |
| 078C | THAANA LETTER THAA                |     |      |
| 078D | THAANA LETTER LAAMU               |     |      |
| 078E | THAANA LETTER GAAFU               |     |      |
| 078F | THAANA LETTER GNAVIYANI           |     |      |
| 0790 | THAANA LETTER SEENU               |     |      |
| 0791 | THAANA LETTER DAVIYANI            |     |      |
| 0792 | THAANA LETTER ZAVIYANI            |     |      |
| 0793 | THAANA LETTER TAVIYANI            |     |      |
| 0794 | THAANA LETTER YAA                 |     |      |
| 0795 | THAANA LETTER PAVIYANI            |     |      |
| 0796 | THAANA LETTER JAVIYANI            |     |      |
| 0797 | THAANA LETTER CHAVIYANI           |     |      |
| 0798 | THAANA LETTER TTAA                |     |      |
| 0799 | THAANA LETTER HHAA                |     |      |
| 079A | THAANA LETTER KHAA                |     |      |
| 079B | THAANA LETTER THAALU              |     |      |
| 079C | THAANA LETTER ZAA                 |     |      |
| 079D | THAANA LETTER SHEENU              |     |      |
| 079E | THAANA LETTER SAADHU              |     |      |
| 079F | THAANA LETTER DAADHU              |     |      |
| 07A0 | THAANA LETTER TO                  |     |      |
| 07A1 | THAANA LETTER ZO                  |     |      |
| 07A2 | THAANA LETTER AINU                |     |      |
| 07A3 | THAANA LETTER GHAINU              |     |      |
| 07A4 | THAANA LETTER QAAFU               |     |      |
| 07A5 | THAANA LETTER WAAVU               |     |      |
| 07A6 | THAANA ABAFILI                    |     |      |
| 07A7 | THAANA AABAAFILI                  |     |      |
| 07A8 | THAANA IBIFILI                    |     |      |
| 07A9 | THAANA EEBEEFILI                  |     |      |
| 07AA | THAANA UBUFILI                    |     |      |
| 07AB | THAANA OOBAAFILI                  |     |      |
| 07AC | THAANA EBEFILI                    |     |      |
| 07AD | THAANA EYBEYFILI                  |     |      |
| 07AE | THAANA OBOFILI                    |     |      |
| 07AF | THAANA OABOAFILI                  |     |      |
| 07B0 | THAANA SUKUN                      |     |      |
| 07B1 | THAANA LETTER NAA                 |     |      |
| 07B2 | (This position shall not be used) |     |      |
| 07B3 | (This position shall not be used) |     |      |
| 07B4 | (This position shall not be used) |     |      |
| 07B5 | (This position shall not be used) |     |      |
| 07B6 | (This position shall not be used) |     |      |
| 07B7 | (This position shall not be used) |     |      |
| 07B8 | (This position shall not be used) |     |      |
| 07B9 | (This position shall not be used) |     |      |
| 07BA | (This position shall not be used) |     |      |
| 07BB | (This position shall not be used) |     |      |
| 07BC | (This position shall not be used) |     |      |
| 07BD | (This position shall not be used) |     |      |
| 07BE | (This position shall not be used) |     |      |
| 07BF | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 07

Table 25 - Row 0B: Tamil

|   | 0B8       | 0B9        | 0BA        | 0BB       | 0BC        | 0BD        | 0BE        | 0BF        |
|---|-----------|------------|------------|-----------|------------|------------|------------|------------|
| 0 |           | ஐ<br>0B90  |            | ர<br>0BB0 | ீ<br>0BC0  |            |            | ய<br>0BF0  |
| 1 |           |            |            | ற<br>0BB1 | ு<br>0BC1  |            |            | ள<br>0BF1  |
| 2 | ஃ<br>0B82 | ஒ<br>0B92  |            | ல<br>0BB2 | ூ<br>0BC2  |            |            | சு<br>0BF2 |
| 3 | ஃ<br>0B83 | ஒ<br>0B93  | ண<br>0BA3  | ள<br>0BB3 |            |            |            |            |
| 4 |           | ஒள<br>0B94 | த<br>0BA4  | ழ<br>0BB4 |            |            |            |            |
| 5 | அ<br>0B85 | க<br>0B95  |            | வ<br>0BB5 |            |            |            |            |
| 6 | ஆ<br>0B86 |            |            |           | ெ<br>0BC6  |            |            |            |
| 7 | இ<br>0B87 |            |            | ஷ<br>0BB7 | ே<br>0BC7  | ்ள<br>0BD7 | க<br>0BE7  |            |
| 8 | ஈ<br>0B88 |            | ந<br>0BA8  | ஸ<br>0BB8 | ை<br>0BC8  |            | உ<br>0BE8  |            |
| 9 | உ<br>0B89 | ங<br>0B99  | ன<br>0BA9  | ஹ<br>0BB9 |            |            | ந<br>0BE9  |            |
| A | ஊ<br>0B8A | ச<br>0B9A  | ப<br>0BA A |           | ொ<br>0BCA  |            | சு<br>0BEA |            |
| B |           |            |            |           | ோ<br>0BCB  |            | ரு<br>0BEB |            |
| C |           | ஐ<br>0B9C  |            |           | ெள<br>0BCC |            | சு<br>0BEC |            |
| D |           |            |            |           | ஃ<br>0BCD  |            | எ<br>0BED  |            |
| E | எ<br>0B8E | ஞ<br>0B9E  | ம<br>0BAE  | ா<br>0BBE |            |            | அ<br>0BEE  |            |
| F | ஏ<br>0B8F | ட<br>0B9F  | ய<br>0BAF  | ி<br>0BBF |            |            | க<br>0BEF  |            |

G = 00  
P = 00

Table 25 - Row 0B: Tamil

| HEX  | NAME                              | HEX  | NAME                              |
|------|-----------------------------------|------|-----------------------------------|
| 0B80 | (This position shall not be used) | 0BDD | (This position shall not be used) |
| 0B81 | (This position shall not be used) | 0BDE | (This position shall not be used) |
| 0B82 | TAMIL SIGN ANUSVARA               | 0BDF | (This position shall not be used) |
| 0B83 | TAMIL SIGN VISARGA                | 0BE0 | (This position shall not be used) |
| 0B84 | (This position shall not be used) | 0BE1 | (This position shall not be used) |
| 0B85 | TAMIL LETTER A                    | 0BE2 | (This position shall not be used) |
| 0B86 | TAMIL LETTER AA                   | 0BE3 | (This position shall not be used) |
| 0B87 | TAMIL LETTER I                    | 0BE4 | (This position shall not be used) |
| 0B88 | TAMIL LETTER II                   | 0BE5 | (This position shall not be used) |
| 0B89 | TAMIL LETTER U                    | 0BE6 | (This position shall not be used) |
| 0B8A | TAMIL LETTER UU                   | 0BE7 | TAMIL DIGIT ONE                   |
| 0B8B | (This position shall not be used) | 0BE8 | TAMIL DIGIT TWO                   |
| 0B8C | (This position shall not be used) | 0BE9 | TAMIL DIGIT THREE                 |
| 0B8D | (This position shall not be used) | 0BEA | TAMIL DIGIT FOUR                  |
| 0B8E | TAMIL LETTER E                    | 0BEB | TAMIL DIGIT FIVE                  |
| 0B8F | TAMIL LETTER EE                   | 0BEC | TAMIL DIGIT SIX                   |
| 0B90 | TAMIL LETTER AI                   | 0BED | TAMIL DIGIT SEVEN                 |
| 0B91 | (This position shall not be used) | 0BEE | TAMIL DIGIT EIGHT                 |
| 0B92 | TAMIL LETTER O                    | 0BEF | TAMIL DIGIT NINE                  |
| 0B93 | TAMIL LETTER OO                   | 0BF0 | TAMIL NUMBER TEN                  |
| 0B94 | TAMIL LETTER AU                   | 0BF1 | TAMIL NUMBER ONE HUNDRED          |
| 0B95 | TAMIL LETTER KA                   | 0BF2 | TAMIL NUMBER ONE THOUSAND         |
| 0B96 | (This position shall not be used) | 0BF3 | (This position shall not be used) |
| 0B97 | (This position shall not be used) | 0BF4 | (This position shall not be used) |
| 0B98 | (This position shall not be used) | 0BF5 | (This position shall not be used) |
| 0B99 | TAMIL LETTER NGA                  | 0BF6 | (This position shall not be used) |
| 0B9A | TAMIL LETTER CA                   | 0BF7 | (This position shall not be used) |
| 0B9B | (This position shall not be used) | 0BF8 | (This position shall not be used) |
| 0B9C | TAMIL LETTER JA                   | 0BF9 | (This position shall not be used) |
| 0B9D | (This position shall not be used) | 0BFA | (This position shall not be used) |
| 0B9E | TAMIL LETTER NYA                  | 0BFB | (This position shall not be used) |
| 0B9F | TAMIL LETTER TTA                  | 0BFC | (This position shall not be used) |
| 0BA0 | (This position shall not be used) | 0BFD | (This position shall not be used) |
| 0BA1 | (This position shall not be used) | 0BFE | (This position shall not be used) |
| 0BA2 | (This position shall not be used) | 0BFF | (This position shall not be used) |
| 0BA3 | TAMIL LETTER NNA                  |      |                                   |
| 0BA4 | TAMIL LETTER TA                   |      |                                   |
| 0BA5 | (This position shall not be used) |      |                                   |
| 0BA6 | (This position shall not be used) |      |                                   |
| 0BA7 | (This position shall not be used) |      |                                   |
| 0BA8 | TAMIL LETTER NA                   |      |                                   |
| 0BA9 | TAMIL LETTER NNNA                 |      |                                   |
| 0BAA | TAMIL LETTER PA                   |      |                                   |
| 0BAB | (This position shall not be used) |      |                                   |
| 0BAC | (This position shall not be used) |      |                                   |
| 0BAD | (This position shall not be used) |      |                                   |
| 0BAE | TAMIL LETTER MA                   |      |                                   |
| 0BAF | TAMIL LETTER YA                   |      |                                   |
| 0BB0 | TAMIL LETTER RA                   |      |                                   |
| 0BB1 | TAMIL LETTER RRA                  |      |                                   |
| 0BB2 | TAMIL LETTER LA                   |      |                                   |
| 0BB3 | TAMIL LETTER LLA                  |      |                                   |
| 0BB4 | TAMIL LETTER LLLA                 |      |                                   |
| 0BB5 | TAMIL LETTER VA                   |      |                                   |
| 0BB6 | (This position shall not be used) |      |                                   |
| 0BB7 | TAMIL LETTER SSA                  |      |                                   |
| 0BB8 | TAMIL LETTER SA                   |      |                                   |
| 0BB9 | TAMIL LETTER HA                   |      |                                   |
| 0BBA | (This position shall not be used) |      |                                   |
| 0BBB | (This position shall not be used) |      |                                   |
| 0BBC | (This position shall not be used) |      |                                   |
| 0BBD | (This position shall not be used) |      |                                   |
| 0BBE | TAMIL VOWEL SIGN AA               |      |                                   |
| 0BBF | TAMIL VOWEL SIGN I                |      |                                   |
| 0BC0 | TAMIL VOWEL SIGN II               |      |                                   |
| 0BC1 | TAMIL VOWEL SIGN U                |      |                                   |
| 0BC2 | TAMIL VOWEL SIGN UU               |      |                                   |
| 0BC3 | (This position shall not be used) |      |                                   |
| 0BC4 | (This position shall not be used) |      |                                   |
| 0BC5 | (This position shall not be used) |      |                                   |
| 0BC6 | TAMIL VOWEL SIGN E                |      |                                   |
| 0BC7 | TAMIL VOWEL SIGN EE               |      |                                   |
| 0BC8 | TAMIL VOWEL SIGN AI               |      |                                   |
| 0BC9 | (This position shall not be used) |      |                                   |
| 0BCA | TAMIL VOWEL SIGN O                |      |                                   |
| 0BCB | TAMIL VOWEL SIGN OO               |      |                                   |
| 0BCC | TAMIL VOWEL SIGN AU               |      |                                   |
| 0BCD | TAMIL SIGN VIRAMA                 |      |                                   |
| 0BCE | (This position shall not be used) |      |                                   |
| 0BCF | (This position shall not be used) |      |                                   |
| 0BD0 | (This position shall not be used) |      |                                   |
| 0BD1 | (This position shall not be used) |      |                                   |
| 0BD2 | (This position shall not be used) |      |                                   |
| 0BD3 | (This position shall not be used) |      |                                   |
| 0BD4 | (This position shall not be used) |      |                                   |
| 0BD5 | (This position shall not be used) |      |                                   |
| 0BD6 | (This position shall not be used) |      |                                   |
| 0BD7 | TAMIL AU LENGTH MARK              |      |                                   |
| 0BD8 | (This position shall not be used) |      |                                   |
| 0BD9 | (This position shall not be used) |      |                                   |
| 0BDA | (This position shall not be used) |      |                                   |
| 0BDB | (This position shall not be used) |      |                                   |
| 0BDC | (This position shall not be used) |      |                                   |

Group 00

Plane 00

Row 0B

Table 35 - Row 10: Georgian

|   | 10A       | 10B       | 10C       | 10D       | 10E       | 10F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | Ⴀ<br>10A0 | Ⴁ<br>10B0 | Ⴂ<br>10C0 | Ⴃ<br>10D0 | Ⴄ<br>10E0 | Ⴅ<br>10F0 |
| 1 | Ⴆ<br>10A1 | Ⴇ<br>10B1 | Ⴈ<br>10C1 | Ⴉ<br>10D1 | Ⴊ<br>10E1 | Ⴋ<br>10F1 |
| 2 | Ⴌ<br>10A2 | Ⴍ<br>10B2 | Ⴎ<br>10C2 | Ⴏ<br>10D2 | Ⴐ<br>10E2 | Ⴑ<br>10F2 |
| 3 | Ⴒ<br>10A3 | Ⴓ<br>10B3 | Ⴔ<br>10C3 | Ⴕ<br>10D3 | Ⴖ<br>10E3 | Ⴗ<br>10F3 |
| 4 | Ⴘ<br>10A4 | Ⴙ<br>10B4 | Ⴚ<br>10C4 | Ⴛ<br>10D4 | Ⴜ<br>10E4 | Ⴝ<br>10F4 |
| 5 | Ⴟ<br>10A5 | Ⴡ<br>10B5 | Ⴢ<br>10C5 | Ⴣ<br>10D5 | Ⴤ<br>10E5 | Ⴥ<br>10F5 |
| 6 | Ⴚ<br>10A6 | Ⴛ<br>10B6 |           | Ⴜ<br>10D6 | Ⴝ<br>10E6 | Ⴞ<br>10F6 |
| 7 | Ⴟ<br>10A7 | Ⴡ<br>10B7 |           | Ⴜ<br>10D7 | Ⴝ<br>10E7 | Ⴞ<br>10F7 |
| 8 | Ⴚ<br>10A8 | Ⴛ<br>10B8 |           | Ⴜ<br>10D8 | Ⴝ<br>10E8 | Ⴞ<br>10F8 |
| 9 | Ⴟ<br>10A9 | Ⴡ<br>10B9 |           | Ⴜ<br>10D9 | Ⴝ<br>10E9 |           |
| A | Ⴚ<br>10AA | Ⴛ<br>10BA |           | Ⴜ<br>10DA | Ⴝ<br>10EA |           |
| B | Ⴟ<br>10AB | Ⴡ<br>10BB |           | Ⴜ<br>10DB | Ⴝ<br>10EB | Ⴞ<br>10FB |
| C | Ⴚ<br>10AC | Ⴛ<br>10BC |           | Ⴜ<br>10DC | Ⴝ<br>10EC |           |
| D | Ⴟ<br>10AD | Ⴡ<br>10BD |           | Ⴜ<br>10DD | Ⴝ<br>10ED |           |
| E | Ⴚ<br>10AE | Ⴛ<br>10BE |           | Ⴜ<br>10DE | Ⴝ<br>10EE |           |
| F | Ⴟ<br>10AF | Ⴡ<br>10BF |           | Ⴜ<br>10DF | Ⴝ<br>10EF |           |

G = 00  
P = 00

Table 35 - Row 10: Georgian

| HEX  | NAME                                    | HEX  | NAME                              |
|------|-----------------------------------------|------|-----------------------------------|
| 10A0 | GEORGIAN CAPITAL LETTER AN (Khutsuri)   | 10FD | (This position shall not be used) |
| 10A1 | GEORGIAN CAPITAL LETTER BAN (Khutsuri)  | 10FE | (This position shall not be used) |
| 10A2 | GEORGIAN CAPITAL LETTER GAN (Khutsuri)  | 10FF | (This position shall not be used) |
| 10A3 | GEORGIAN CAPITAL LETTER DON (Khutsuri)  |      |                                   |
| 10A4 | GEORGIAN CAPITAL LETTER EN (Khutsuri)   |      |                                   |
| 10A5 | GEORGIAN CAPITAL LETTER VIN (Khutsuri)  |      |                                   |
| 10A6 | GEORGIAN CAPITAL LETTER ZEN (Khutsuri)  |      |                                   |
| 10A7 | GEORGIAN CAPITAL LETTER TAN (Khutsuri)  |      |                                   |
| 10A8 | GEORGIAN CAPITAL LETTER IN (Khutsuri)   |      |                                   |
| 10A9 | GEORGIAN CAPITAL LETTER KAN (Khutsuri)  |      |                                   |
| 10AA | GEORGIAN CAPITAL LETTER LAS (Khutsuri)  |      |                                   |
| 10AB | GEORGIAN CAPITAL LETTER MAN (Khutsuri)  |      |                                   |
| 10AC | GEORGIAN CAPITAL LETTER NAR (Khutsuri)  |      |                                   |
| 10AD | GEORGIAN CAPITAL LETTER ON (Khutsuri)   |      |                                   |
| 10AE | GEORGIAN CAPITAL LETTER PAR (Khutsuri)  |      |                                   |
| 10AF | GEORGIAN CAPITAL LETTER ZHAR (Khutsuri) |      |                                   |
| 10B0 | GEORGIAN CAPITAL LETTER RAE (Khutsuri)  |      |                                   |
| 10B1 | GEORGIAN CAPITAL LETTER SAN (Khutsuri)  |      |                                   |
| 10B2 | GEORGIAN CAPITAL LETTER TAR (Khutsuri)  |      |                                   |
| 10B3 | GEORGIAN CAPITAL LETTER UN (Khutsuri)   |      |                                   |
| 10B4 | GEORGIAN CAPITAL LETTER PHAR (Khutsuri) |      |                                   |
| 10B5 | GEORGIAN CAPITAL LETTER KHAR (Khutsuri) |      |                                   |
| 10B6 | GEORGIAN CAPITAL LETTER GHAN (Khutsuri) |      |                                   |
| 10B7 | GEORGIAN CAPITAL LETTER QAR (Khutsuri)  |      |                                   |
| 10B8 | GEORGIAN CAPITAL LETTER SHIN (Khutsuri) |      |                                   |
| 10B9 | GEORGIAN CAPITAL LETTER CHIN (Khutsuri) |      |                                   |
| 10BA | GEORGIAN CAPITAL LETTER CAN (Khutsuri)  |      |                                   |
| 10BB | GEORGIAN CAPITAL LETTER JIL (Khutsuri)  |      |                                   |
| 10BC | GEORGIAN CAPITAL LETTER CIL (Khutsuri)  |      |                                   |
| 10BD | GEORGIAN CAPITAL LETTER CHAR (Khutsuri) |      |                                   |
| 10BE | GEORGIAN CAPITAL LETTER XAN (Khutsuri)  |      |                                   |
| 10BF | GEORGIAN CAPITAL LETTER JHAN (Khutsuri) |      |                                   |
| 10C0 | GEORGIAN CAPITAL LETTER HAE (Khutsuri)  |      |                                   |
| 10C1 | GEORGIAN CAPITAL LETTER HE (Khutsuri)   |      |                                   |
| 10C2 | GEORGIAN CAPITAL LETTER HIE (Khutsuri)  |      |                                   |
| 10C3 | GEORGIAN CAPITAL LETTER WE (Khutsuri)   |      |                                   |
| 10C4 | GEORGIAN CAPITAL LETTER HAR (Khutsuri)  |      |                                   |
| 10C5 | GEORGIAN CAPITAL LETTER HOE (Khutsuri)  |      |                                   |
| 10C6 | (This position shall not be used)       |      |                                   |
| 10C7 | (This position shall not be used)       |      |                                   |
| 10C8 | (This position shall not be used)       |      |                                   |
| 10C9 | (This position shall not be used)       |      |                                   |
| 10CA | (This position shall not be used)       |      |                                   |
| 10CB | (This position shall not be used)       |      |                                   |
| 10CC | (This position shall not be used)       |      |                                   |
| 10CD | (This position shall not be used)       |      |                                   |
| 10CE | (This position shall not be used)       |      |                                   |
| 10CF | (This position shall not be used)       |      |                                   |
| 10D0 | GEORGIAN LETTER AN                      |      |                                   |
| 10D1 | GEORGIAN LETTER BAN                     |      |                                   |
| 10D2 | GEORGIAN LETTER GAN                     |      |                                   |
| 10D3 | GEORGIAN LETTER DON                     |      |                                   |
| 10D4 | GEORGIAN LETTER EN                      |      |                                   |
| 10D5 | GEORGIAN LETTER VIN                     |      |                                   |
| 10D6 | GEORGIAN LETTER ZEN                     |      |                                   |
| 10D7 | GEORGIAN LETTER TAN                     |      |                                   |
| 10D8 | GEORGIAN LETTER IN                      |      |                                   |
| 10D9 | GEORGIAN LETTER KAN                     |      |                                   |
| 10DA | GEORGIAN LETTER LAS                     |      |                                   |
| 10DB | GEORGIAN LETTER MAN                     |      |                                   |
| 10DC | GEORGIAN LETTER NAR                     |      |                                   |
| 10DD | GEORGIAN LETTER ON                      |      |                                   |
| 10DE | GEORGIAN LETTER PAR                     |      |                                   |
| 10DF | GEORGIAN LETTER ZHAR                    |      |                                   |
| 10E0 | GEORGIAN LETTER RAE                     |      |                                   |
| 10E1 | GEORGIAN LETTER SAN                     |      |                                   |
| 10E2 | GEORGIAN LETTER TAR                     |      |                                   |
| 10E3 | GEORGIAN LETTER UN                      |      |                                   |
| 10E4 | GEORGIAN LETTER PHAR                    |      |                                   |
| 10E5 | GEORGIAN LETTER KHAR                    |      |                                   |
| 10E6 | GEORGIAN LETTER GHAN                    |      |                                   |
| 10E7 | GEORGIAN LETTER QAR                     |      |                                   |
| 10E8 | GEORGIAN LETTER SHIN                    |      |                                   |
| 10E9 | GEORGIAN LETTER CHIN                    |      |                                   |
| 10EA | GEORGIAN LETTER CAN                     |      |                                   |
| 10EB | GEORGIAN LETTER JIL                     |      |                                   |
| 10EC | GEORGIAN LETTER CIL                     |      |                                   |
| 10ED | GEORGIAN LETTER CHAR                    |      |                                   |
| 10EE | GEORGIAN LETTER XAN                     |      |                                   |
| 10EF | GEORGIAN LETTER JHAN                    |      |                                   |
| 10F0 | GEORGIAN LETTER HAE                     |      |                                   |
| 10F1 | GEORGIAN LETTER HE                      |      |                                   |
| 10F2 | GEORGIAN LETTER HIE                     |      |                                   |
| 10F3 | GEORGIAN LETTER WE                      |      |                                   |
| 10F4 | GEORGIAN LETTER HAR                     |      |                                   |
| 10F5 | GEORGIAN LETTER HOE                     |      |                                   |
| 10F6 | GEORGIAN LETTER FI                      |      |                                   |
| 10F7 | GEORGIAN LETTER YN                      |      |                                   |
| 10F8 | GEORGIAN LETTER ELIFI                   |      |                                   |
| 10F9 | (This position shall not be used)       |      |                                   |
| 10FA | (This position shall not be used)       |      |                                   |
| 10FB | GEORGIAN PARAGRAPH SEPARATOR            |      |                                   |
| 10FC | (This position shall not be used)       |      |                                   |

Group 00

Plane 00

Row 10

Table 38 - Row 12: Ethiopic

|   | 120       | 121       | 122       | 123       | 124       | 125       | 126       | 127       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | ሀ<br>1200 | ሐ<br>1210 | ሠ<br>1220 | ሰ<br>1230 | ቀ<br>1240 | ቐ<br>1250 | በ<br>1260 | ተ<br>1270 |
| 1 | ሁ<br>1201 | ሑ<br>1211 | ሡ<br>1221 | ሱ<br>1231 | ቁ<br>1241 | ቑ<br>1251 | ቡ<br>1261 | ቲ<br>1271 |
| 2 | ሂ<br>1202 | ሒ<br>1212 | ሣ<br>1222 | ሲ<br>1232 | ቂ<br>1242 | ቊ<br>1252 | ቢ<br>1262 | ታ<br>1272 |
| 3 | ሃ<br>1203 | ሓ<br>1213 | ሣ<br>1223 | ሳ<br>1233 | ቃ<br>1243 | ቋ<br>1253 | ባ<br>1263 | ታ<br>1273 |
| 4 | ሄ<br>1204 | ሔ<br>1214 | ሤ<br>1224 | ሴ<br>1234 | ቄ<br>1244 | ቌ<br>1254 | ቤ<br>1264 | ቲ<br>1274 |
| 5 | ህ<br>1205 | ሐ<br>1215 | ሥ<br>1225 | ሰ<br>1235 | ቅ<br>1245 | ቐ<br>1255 | በ<br>1265 | ት<br>1275 |
| 6 | ሆ<br>1206 | ሐ<br>1216 | ሦ<br>1226 | ሶ<br>1236 | ቆ<br>1246 | ቑ<br>1256 | ቦ<br>1266 | ቶ<br>1276 |
| 7 |           | ሓ<br>1217 | ሣ<br>1227 | ሳ<br>1237 |           |           | ባ<br>1267 | ታ<br>1277 |
| 8 | ለ<br>1208 | መ<br>1218 | ረ<br>1228 | ሸ<br>1238 | ቈ<br>1248 | ቊ<br>1258 | ቨ<br>1268 | ቸ<br>1278 |
| 9 | ሉ<br>1209 | ሙ<br>1219 | ሩ<br>1229 | ሹ<br>1239 |           |           | ቩ<br>1269 | ቹ<br>1279 |
| A | ሊ<br>120A | ሚ<br>121A | ሪ<br>122A | ሺ<br>123A | ቀ<br>124A | ቊ<br>125A | ቪ<br>126A | ቸ<br>127A |
| B | ለ<br>120B | ማ<br>121B | ራ<br>122B | ሻ<br>123B | ቋ<br>124B | ቌ<br>125B | ቫ<br>126B | ቻ<br>127B |
| C | ሌ<br>120C | ሚ<br>121C | ራ<br>122C | ሼ<br>123C | ቋ<br>124C | ቋ<br>125C | ቭ<br>126C | ቻ<br>127C |
| D | ል<br>120D | ም<br>121D | ር<br>122D | ሽ<br>123D | ቀ<br>124D | ቊ<br>125D | ቫ<br>126D | ቻ<br>127D |
| E | ሎ<br>120E | ሞ<br>121E | ሮ<br>122E | ሾ<br>123E |           |           | ቮ<br>126E | ቻ<br>127E |
| F | ሊ<br>120F | ሚ<br>121F | ሯ<br>122F | ሺ<br>123F |           |           | ቭ<br>126F | ቻ<br>127F |

G = 00  
P = 00

Table 38 - Row 12: Ethiopic

| HEX  | NAME                              | HEX  | NAME                              |
|------|-----------------------------------|------|-----------------------------------|
| 1200 | ETHIOPIC SYLLABLE HA              | 125D | ETHIOPIC SYLLABLE QHWE            |
| 1201 | ETHIOPIC SYLLABLE HU              | 125E | (This position shall not be used) |
| 1202 | ETHIOPIC SYLLABLE HI              | 125F | (This position shall not be used) |
| 1203 | ETHIOPIC SYLLABLE HAA             | 1260 | ETHIOPIC SYLLABLE BA              |
| 1204 | ETHIOPIC SYLLABLE HEE             | 1261 | ETHIOPIC SYLLABLE BU              |
| 1205 | ETHIOPIC SYLLABLE HE              | 1262 | ETHIOPIC SYLLABLE BI              |
| 1206 | ETHIOPIC SYLLABLE HO              | 1263 | ETHIOPIC SYLLABLE BAA             |
| 1207 | (This position shall not be used) | 1264 | ETHIOPIC SYLLABLE BEE             |
| 1208 | ETHIOPIC SYLLABLE LA              | 1265 | ETHIOPIC SYLLABLE BE              |
| 1209 | ETHIOPIC SYLLABLE LU              | 1266 | ETHIOPIC SYLLABLE BO              |
| 120A | ETHIOPIC SYLLABLE LI              | 1267 | ETHIOPIC SYLLABLE BWA             |
| 120B | ETHIOPIC SYLLABLE LAA             | 1268 | ETHIOPIC SYLLABLE VA              |
| 120C | ETHIOPIC SYLLABLE LEE             | 1269 | ETHIOPIC SYLLABLE VU              |
| 120D | ETHIOPIC SYLLABLE LE              | 126A | ETHIOPIC SYLLABLE VI              |
| 120E | ETHIOPIC SYLLABLE LO              | 126B | ETHIOPIC SYLLABLE VAA             |
| 120F | ETHIOPIC SYLLABLE LWA             | 126C | ETHIOPIC SYLLABLE VEE             |
| 1210 | ETHIOPIC SYLLABLE HHA             | 126D | ETHIOPIC SYLLABLE VE              |
| 1211 | ETHIOPIC SYLLABLE HHU             | 126E | ETHIOPIC SYLLABLE VO              |
| 1212 | ETHIOPIC SYLLABLE HHI             | 126F | ETHIOPIC SYLLABLE VWA             |
| 1213 | ETHIOPIC SYLLABLE HHAA            | 1270 | ETHIOPIC SYLLABLE TA              |
| 1214 | ETHIOPIC SYLLABLE HHEE            | 1271 | ETHIOPIC SYLLABLE TU              |
| 1215 | ETHIOPIC SYLLABLE HHE             | 1272 | ETHIOPIC SYLLABLE TI              |
| 1216 | ETHIOPIC SYLLABLE HHO             | 1273 | ETHIOPIC SYLLABLE TAA             |
| 1217 | ETHIOPIC SYLLABLE HHWA            | 1274 | ETHIOPIC SYLLABLE TEE             |
| 1218 | ETHIOPIC SYLLABLE MA              | 1275 | ETHIOPIC SYLLABLE TE              |
| 1219 | ETHIOPIC SYLLABLE MU              | 1276 | ETHIOPIC SYLLABLE TO              |
| 121A | ETHIOPIC SYLLABLE MI              | 1277 | ETHIOPIC SYLLABLE TWA             |
| 121B | ETHIOPIC SYLLABLE MAA             | 1278 | ETHIOPIC SYLLABLE CA              |
| 121C | ETHIOPIC SYLLABLE MEE             | 1279 | ETHIOPIC SYLLABLE CU              |
| 121D | ETHIOPIC SYLLABLE ME              | 127A | ETHIOPIC SYLLABLE CI              |
| 121E | ETHIOPIC SYLLABLE MO              | 127B | ETHIOPIC SYLLABLE CAA             |
| 121F | ETHIOPIC SYLLABLE MWA             | 127C | ETHIOPIC SYLLABLE CEE             |
| 1220 | ETHIOPIC SYLLABLE SZA             | 127D | ETHIOPIC SYLLABLE CE              |
| 1221 | ETHIOPIC SYLLABLE SZU             | 127E | ETHIOPIC SYLLABLE CO              |
| 1222 | ETHIOPIC SYLLABLE SZI             | 127F | ETHIOPIC SYLLABLE CWA             |
| 1223 | ETHIOPIC SYLLABLE SZAA            |      |                                   |
| 1224 | ETHIOPIC SYLLABLE SZEE            |      |                                   |
| 1225 | ETHIOPIC SYLLABLE SZE             |      |                                   |
| 1226 | ETHIOPIC SYLLABLE SZO             |      |                                   |
| 1227 | ETHIOPIC SYLLABLE SZWA            |      |                                   |
| 1228 | ETHIOPIC SYLLABLE RA              |      |                                   |
| 1229 | ETHIOPIC SYLLABLE RU              |      |                                   |
| 122A | ETHIOPIC SYLLABLE RI              |      |                                   |
| 122B | ETHIOPIC SYLLABLE RAA             |      |                                   |
| 122C | ETHIOPIC SYLLABLE REE             |      |                                   |
| 122D | ETHIOPIC SYLLABLE RE              |      |                                   |
| 122E | ETHIOPIC SYLLABLE RO              |      |                                   |
| 122F | ETHIOPIC SYLLABLE RWA             |      |                                   |
| 1230 | ETHIOPIC SYLLABLE SA              |      |                                   |
| 1231 | ETHIOPIC SYLLABLE SU              |      |                                   |
| 1232 | ETHIOPIC SYLLABLE SI              |      |                                   |
| 1233 | ETHIOPIC SYLLABLE SAA             |      |                                   |
| 1234 | ETHIOPIC SYLLABLE SEE             |      |                                   |
| 1235 | ETHIOPIC SYLLABLE SE              |      |                                   |
| 1236 | ETHIOPIC SYLLABLE SO              |      |                                   |
| 1237 | ETHIOPIC SYLLABLE SWA             |      |                                   |
| 1238 | ETHIOPIC SYLLABLE SHA             |      |                                   |
| 1239 | ETHIOPIC SYLLABLE SHU             |      |                                   |
| 123A | ETHIOPIC SYLLABLE SHI             |      |                                   |
| 123B | ETHIOPIC SYLLABLE SHAA            |      |                                   |
| 123C | ETHIOPIC SYLLABLE SHEE            |      |                                   |
| 123D | ETHIOPIC SYLLABLE SHE             |      |                                   |
| 123E | ETHIOPIC SYLLABLE SHO             |      |                                   |
| 123F | ETHIOPIC SYLLABLE SHWA            |      |                                   |
| 1240 | ETHIOPIC SYLLABLE QA              |      |                                   |
| 1241 | ETHIOPIC SYLLABLE QU              |      |                                   |
| 1242 | ETHIOPIC SYLLABLE QI              |      |                                   |
| 1243 | ETHIOPIC SYLLABLE QAA             |      |                                   |
| 1244 | ETHIOPIC SYLLABLE QEE             |      |                                   |
| 1245 | ETHIOPIC SYLLABLE QE              |      |                                   |
| 1246 | ETHIOPIC SYLLABLE QO              |      |                                   |
| 1247 | (This position shall not be used) |      |                                   |
| 1248 | ETHIOPIC SYLLABLE QWA             |      |                                   |
| 1249 | (This position shall not be used) |      |                                   |
| 124A | ETHIOPIC SYLLABLE QWI             |      |                                   |
| 124B | ETHIOPIC SYLLABLE QWAA            |      |                                   |
| 124C | ETHIOPIC SYLLABLE QWEE            |      |                                   |
| 124D | ETHIOPIC SYLLABLE QWE             |      |                                   |
| 124E | (This position shall not be used) |      |                                   |
| 124F | (This position shall not be used) |      |                                   |
| 1250 | ETHIOPIC SYLLABLE QHA             |      |                                   |
| 1251 | ETHIOPIC SYLLABLE QHU             |      |                                   |
| 1252 | ETHIOPIC SYLLABLE QHI             |      |                                   |
| 1253 | ETHIOPIC SYLLABLE QHAA            |      |                                   |
| 1254 | ETHIOPIC SYLLABLE QHEE            |      |                                   |
| 1255 | ETHIOPIC SYLLABLE QHE             |      |                                   |
| 1256 | ETHIOPIC SYLLABLE QHO             |      |                                   |
| 1257 | (This position shall not be used) |      |                                   |
| 1258 | ETHIOPIC SYLLABLE QHWA            |      |                                   |
| 1259 | (This position shall not be used) |      |                                   |
| 125A | ETHIOPIC SYLLABLE QHWI            |      |                                   |
| 125B | ETHIOPIC SYLLABLE QHWAA           |      |                                   |
| 125C | ETHIOPIC SYLLABLE QHWEE           |      |                                   |

Group 00

Plane 00

Row 12

**Table 48 - Row 17: Tagalog**

|   | 170                                                                                         | 171                                                                                       |
|---|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 0 | <br>1700   | <br>1710 |
| 1 | <br>1701   | <br>1711 |
| 2 | <br>1702   | <br>1712 |
| 3 | <br>1703   | <br>1713 |
| 4 | <br>1704   | <br>1714 |
| 5 | <br>1705   |                                                                                           |
| 6 | <br>1706  |                                                                                           |
| 7 | <br>1707 |                                                                                           |
| 8 | <br>1708 |                                                                                           |
| 9 | <br>1709 |                                                                                           |
| A | <br>170A |                                                                                           |
| B | <br>170B |                                                                                           |
| C | <br>170C |                                                                                           |
| D |                                                                                             |                                                                                           |
| E | <br>170E |                                                                                           |
| F | <br>170F |                                                                                           |

**G = 00**  
**P = 00**

Table 48 - Row 17: Tagalog

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 1700 | TAGALOG LETTER A                  |     |      |
| 1701 | TAGALOG LETTER I                  |     |      |
| 1702 | TAGALOG LETTER U                  |     |      |
| 1703 | TAGALOG LETTER KA                 |     |      |
| 1704 | TAGALOG LETTER GA                 |     |      |
| 1705 | TAGALOG LETTER NGA                |     |      |
| 1706 | TAGALOG LETTER TA                 |     |      |
| 1707 | TAGALOG LETTER DA                 |     |      |
| 1708 | TAGALOG LETTER NA                 |     |      |
| 1709 | TAGALOG LETTER PA                 |     |      |
| 170A | TAGALOG LETTER BA                 |     |      |
| 170B | TAGALOG LETTER MA                 |     |      |
| 170C | TAGALOG LETTER YA                 |     |      |
| 170D | (This position shall not be used) |     |      |
| 170E | TAGALOG LETTER LA                 |     |      |
| 170F | TAGALOG LETTER WA                 |     |      |
| 1710 | TAGALOG LETTER SA                 |     |      |
| 1711 | TAGALOG LETTER HA                 |     |      |
| 1712 | TAGALOG VOWEL SIGN I              |     |      |
| 1713 | TAGALOG VOWEL SIGN U              |     |      |
| 1714 | TAGALOG SIGN VIRAMA               |     |      |
| 1715 | (This position shall not be used) |     |      |
| 1716 | (This position shall not be used) |     |      |
| 1717 | (This position shall not be used) |     |      |
| 1718 | (This position shall not be used) |     |      |
| 1719 | (This position shall not be used) |     |      |
| 171A | (This position shall not be used) |     |      |
| 171B | (This position shall not be used) |     |      |
| 171C | (This position shall not be used) |     |      |
| 171D | (This position shall not be used) |     |      |
| 171E | (This position shall not be used) |     |      |
| 171F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 17

Table 49 - Row 17: Hanunoo

|   | 172                                                                                         | 173                                                                                       |
|---|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 0 | <br>1720   | <br>1730 |
| 1 | <br>1721   | <br>1731 |
| 2 | <br>1722   | <br>1732 |
| 3 | <br>1723   | <br>1733 |
| 4 | <br>1724   | <br>1734 |
| 5 | <br>1725   | <br>1735 |
| 6 | <br>1726   | <br>1736 |
| 7 | <br>1727 |                                                                                           |
| 8 | <br>1728 |                                                                                           |
| 9 | <br>1729 |                                                                                           |
| A | <br>172A |                                                                                           |
| B | <br>172B |                                                                                           |
| C | <br>172C |                                                                                           |
| D | <br>172D |                                                                                           |
| E | <br>172E |                                                                                           |
| F | <br>172F |                                                                                           |

G = 00  
P = 00

Table 49 - Row 17: Hanunoo

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 1720 | HANUNOO LETTER A                  |     |      |
| 1721 | HANUNOO LETTER I                  |     |      |
| 1722 | HANUNOO LETTER U                  |     |      |
| 1723 | HANUNOO LETTER KA                 |     |      |
| 1724 | HANUNOO LETTER GA                 |     |      |
| 1725 | HANUNOO LETTER NGA                |     |      |
| 1726 | HANUNOO LETTER TA                 |     |      |
| 1727 | HANUNOO LETTER DA                 |     |      |
| 1728 | HANUNOO LETTER NA                 |     |      |
| 1729 | HANUNOO LETTER PA                 |     |      |
| 172A | HANUNOO LETTER BA                 |     |      |
| 172B | HANUNOO LETTER MA                 |     |      |
| 172C | HANUNOO LETTER YA                 |     |      |
| 172D | HANUNOO LETTER RA                 |     |      |
| 172E | HANUNOO LETTER LA                 |     |      |
| 172F | HANUNOO LETTER WA                 |     |      |
| 1730 | HANUNOO LETTER SA                 |     |      |
| 1731 | HANUNOO LETTER HA                 |     |      |
| 1732 | HANUNOO VOWEL SIGN I              |     |      |
| 1733 | HANUNOO VOWEL SIGN U              |     |      |
| 1734 | HANUNOO SIGN PAMUDPOD             |     |      |
| 1735 | PHILIPPINE SINGLE PUNCTUATION     |     |      |
| 1736 | PHILIPPINE DOUBLE PUNCTUATION     |     |      |
| 1737 | (This position shall not be used) |     |      |
| 1738 | (This position shall not be used) |     |      |
| 1739 | (This position shall not be used) |     |      |
| 173A | (This position shall not be used) |     |      |
| 173B | (This position shall not be used) |     |      |
| 173C | (This position shall not be used) |     |      |
| 173D | (This position shall not be used) |     |      |
| 173E | (This position shall not be used) |     |      |
| 173F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 17

Table 50 - Row 17: Buhid

|   | 174                                                                                         | 175                                                                                       |
|---|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 0 | <br>1740   | <br>1750 |
| 1 | <br>1741   | <br>1751 |
| 2 | <br>1742   | <br>1752 |
| 3 | <br>1743   | <br>1753 |
| 4 | <br>1744   |                                                                                           |
| 5 | <br>1745   |                                                                                           |
| 6 | <br>1746   |                                                                                           |
| 7 | <br>1747 |                                                                                           |
| 8 | <br>1748 |                                                                                           |
| 9 | <br>1749 |                                                                                           |
| A | <br>174A |                                                                                           |
| B | <br>174B |                                                                                           |
| C | <br>174C |                                                                                           |
| D | <br>174D |                                                                                           |
| E | <br>174E |                                                                                           |
| F | <br>174F |                                                                                           |

G = 00  
P = 00

Table 50 - Row 17: Buhid

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 1740 | BUHID LETTER A                    |     |      |
| 1741 | BUHID LETTER I                    |     |      |
| 1742 | BUHID LETTER U                    |     |      |
| 1743 | BUHID LETTER KA                   |     |      |
| 1744 | BUHID LETTER GA                   |     |      |
| 1745 | BUHID LETTER NGA                  |     |      |
| 1746 | BUHID LETTER TA                   |     |      |
| 1747 | BUHID LETTER DA                   |     |      |
| 1748 | BUHID LETTER NA                   |     |      |
| 1749 | BUHID LETTER PA                   |     |      |
| 174A | BUHID LETTER BA                   |     |      |
| 174B | BUHID LETTER MA                   |     |      |
| 174C | BUHID LETTER YA                   |     |      |
| 174D | BUHID LETTER RA                   |     |      |
| 174E | BUHID LETTER LA                   |     |      |
| 174F | BUHID LETTER WA                   |     |      |
| 1750 | BUHID LETTER SA                   |     |      |
| 1751 | BUHID LETTER HA                   |     |      |
| 1752 | BUHID VOWEL SIGN I                |     |      |
| 1753 | BUHID VOWEL SIGN U                |     |      |
| 1754 | (This position shall not be used) |     |      |
| 1755 | (This position shall not be used) |     |      |
| 1756 | (This position shall not be used) |     |      |
| 1757 | (This position shall not be used) |     |      |
| 1758 | (This position shall not be used) |     |      |
| 1759 | (This position shall not be used) |     |      |
| 175A | (This position shall not be used) |     |      |
| 175B | (This position shall not be used) |     |      |
| 175C | (This position shall not be used) |     |      |
| 175D | (This position shall not be used) |     |      |
| 175E | (This position shall not be used) |     |      |
| 175F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 17

Table 51 - Row 17: Tagbanwa

|   | 176                                                                                         | 177                                                                                       |
|---|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 0 | <br>1760   | <br>1770 |
| 1 | <br>1761   |                                                                                           |
| 2 | <br>1762   | <br>1772 |
| 3 | <br>1763   | <br>1773 |
| 4 | <br>1764   |                                                                                           |
| 5 | <br>1765   |                                                                                           |
| 6 | <br>1766   |                                                                                           |
| 7 | <br>1767 |                                                                                           |
| 8 | <br>1768 |                                                                                           |
| 9 | <br>1769 |                                                                                           |
| A | <br>176A |                                                                                           |
| B | <br>176B |                                                                                           |
| C | <br>176C |                                                                                           |
| D |                                                                                             |                                                                                           |
| E | <br>176E |                                                                                           |
| F | <br>176F |                                                                                           |

G = 00  
P = 00

Table 51 - Row 17: Tagbanwa

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 1760 | TAGBANWA LETTER A                 |     |      |
| 1761 | TAGBANWA LETTER I                 |     |      |
| 1762 | TAGBANWA LETTER U                 |     |      |
| 1763 | TAGBANWA LETTER KA                |     |      |
| 1764 | TAGBANWA LETTER GA                |     |      |
| 1765 | TAGBANWA LETTER NGA               |     |      |
| 1766 | TAGBANWA LETTER TA                |     |      |
| 1767 | TAGBANWA LETTER DA                |     |      |
| 1768 | TAGBANWA LETTER NA                |     |      |
| 1769 | TAGBANWA LETTER PA                |     |      |
| 176A | TAGBANWA LETTER BA                |     |      |
| 176B | TAGBANWA LETTER MA                |     |      |
| 176C | TAGBANWA LETTER YA                |     |      |
| 176D | (This position shall not be used) |     |      |
| 176E | TAGBANWA LETTER LA                |     |      |
| 176F | TAGBANWA LETTER WA                |     |      |
| 1770 | TAGBANWA LETTER SA                |     |      |
| 1771 | (This position shall not be used) |     |      |
| 1772 | TAGBANWA VOWEL SIGN I             |     |      |
| 1773 | TAGBANWA VOWEL SIGN U             |     |      |
| 1774 | (This position shall not be used) |     |      |
| 1775 | (This position shall not be used) |     |      |
| 1776 | (This position shall not be used) |     |      |
| 1777 | (This position shall not be used) |     |      |
| 1778 | (This position shall not be used) |     |      |
| 1779 | (This position shall not be used) |     |      |
| 177A | (This position shall not be used) |     |      |
| 177B | (This position shall not be used) |     |      |
| 177C | (This position shall not be used) |     |      |
| 177D | (This position shall not be used) |     |      |
| 177E | (This position shall not be used) |     |      |
| 177F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 17

Table 52 - Row 17: Khmer

|   | 178        | 179       | 17A         | 17B       | 17C       | 17D       | 17E       | 17F |
|---|------------|-----------|-------------|-----------|-----------|-----------|-----------|-----|
| 0 | ក<br>1780  | ថ<br>1790 | ហ<br>17A0   | ព<br>17B0 | ឿ<br>17C0 | ័<br>17D0 | ័<br>17E0 |     |
| 1 | ខ<br>1781  | ទ<br>1791 | ឡ<br>17A1   | ឱ<br>17B1 | េ<br>17C1 | ័<br>17D1 | ័<br>17E1 |     |
| 2 | ត<br>1782  | ធ<br>1792 | អ<br>17A2   | ច<br>17B2 | ៃ<br>17C2 | ័<br>17D2 | ័<br>17E2 |     |
| 3 | យ<br>1783  | ន<br>1793 | អ<br>17A3   | ឱ<br>17B3 | ៃ<br>17C3 | ័<br>17D3 | ័<br>17E3 |     |
| 4 | ង<br>1784  | ប<br>1794 | អា<br>17A4  | ា<br>17B4 | ោ<br>17C4 | ។<br>17D4 | ៤<br>17E4 |     |
| 5 | ច<br>1785  | ផ<br>1795 | ត<br>17A5   | ា<br>17B5 | ោ<br>17C5 | ។<br>17D5 | ៥<br>17E5 |     |
| 6 | ឆ<br>1786  | ព<br>1796 | ឡ<br>17A6   | ា<br>17B6 | ័<br>17C6 | ័<br>17D6 | ៦<br>17E6 |     |
| 7 | ជ<br>1787  | ភ<br>1797 | ខ<br>17A7   | ័<br>17B7 | ័<br>17C7 | ័<br>17D7 | ៧<br>17E7 |     |
| 8 | ឈ<br>1788  | ម<br>1798 | ឱ<br>17A8   | ័<br>17B8 | ័<br>17C8 | ័<br>17D8 | ៨<br>17E8 |     |
| 9 | ញ<br>1789  | យ<br>1799 | ឱ<br>17A9   | ័<br>17B9 | ័<br>17C9 | ័<br>17D9 | ៩<br>17E9 |     |
| A | ដ<br>178A  | រ<br>179A | ឱ<br>17AA   | ័<br>17BA | ័<br>17CA | ័<br>17DA |           |     |
| B | ប៊<br>178B | ល<br>179B | ប្រ<br>17AB | ័<br>17BB | ័<br>17CB | ័<br>17DB |           |     |
| C | ខ<br>178C  | រ<br>179C | ប្រ<br>17AC | ័<br>17BC | ័<br>17CC | ័<br>17DC |           |     |
| D | ឆ<br>178D  | គ<br>179D | ព្រ<br>17AD | ័<br>17BD | ័<br>17CD |           |           |     |
| E | ណ<br>178E  | ថ<br>179E | ព្រ<br>17AE | ័<br>17BE | ័<br>17CE |           |           |     |
| F | ត<br>178F  | ស<br>179F | ង<br>17AF   | ័<br>17BF | ័<br>17CF |           |           |     |

G = 00  
P = 00

Table 52 - Row 17: Khmer

| HEX  | NAME                                 | HEX  | NAME                              |
|------|--------------------------------------|------|-----------------------------------|
| 1780 | KHMER LETTER KA                      | 17DD | (This position shall not be used) |
| 1781 | KHMER LETTER KHA                     | 17DE | (This position shall not be used) |
| 1782 | KHMER LETTER KO                      | 17DF | (This position shall not be used) |
| 1783 | KHMER LETTER KHO                     | 17E0 | KHMER DIGIT ZERO                  |
| 1784 | KHMER LETTER NGO                     | 17E1 | KHMER DIGIT ONE                   |
| 1785 | KHMER LETTER CA                      | 17E2 | KHMER DIGIT TWO                   |
| 1786 | KHMER LETTER CHA                     | 17E3 | KHMER DIGIT THREE                 |
| 1787 | KHMER LETTER CO                      | 17E4 | KHMER DIGIT FOUR                  |
| 1788 | KHMER LETTER CHO                     | 17E5 | KHMER DIGIT FIVE                  |
| 1789 | KHMER LETTER NYO                     | 17E6 | KHMER DIGIT SIX                   |
| 178A | KHMER LETTER DA                      | 17E7 | KHMER DIGIT SEVEN                 |
| 178B | KHMER LETTER TTHA                    | 17E8 | KHMER DIGIT EIGHT                 |
| 178C | KHMER LETTER DO                      | 17E9 | KHMER DIGIT NINE                  |
| 178D | KHMER LETTER TTHO                    | 17EA | (This position shall not be used) |
| 178E | KHMER LETTER NNO                     | 17EB | (This position shall not be used) |
| 178F | KHMER LETTER TA                      | 17EC | (This position shall not be used) |
| 1790 | KHMER LETTER THA                     | 17ED | (This position shall not be used) |
| 1791 | KHMER LETTER TO                      | 17EE | (This position shall not be used) |
| 1792 | KHMER LETTER THO                     | 17EF | (This position shall not be used) |
| 1793 | KHMER LETTER NO                      | 17F0 | (This position shall not be used) |
| 1794 | KHMER LETTER BA                      | 17F1 | (This position shall not be used) |
| 1795 | KHMER LETTER PHA                     | 17F2 | (This position shall not be used) |
| 1796 | KHMER LETTER PO                      | 17F3 | (This position shall not be used) |
| 1797 | KHMER LETTER PHO                     | 17F4 | (This position shall not be used) |
| 1798 | KHMER LETTER MO                      | 17F5 | (This position shall not be used) |
| 1799 | KHMER LETTER YO                      | 17F6 | (This position shall not be used) |
| 179A | KHMER LETTER RO                      | 17F7 | (This position shall not be used) |
| 179B | KHMER LETTER LO                      | 17F8 | (This position shall not be used) |
| 179C | KHMER LETTER VO                      | 17F9 | (This position shall not be used) |
| 179D | KHMER LETTER SHA                     | 17FA | (This position shall not be used) |
| 179E | KHMER LETTER SSO                     | 17FB | (This position shall not be used) |
| 179F | KHMER LETTER SA                      | 17FC | (This position shall not be used) |
| 17A0 | KHMER LETTER HA                      | 17FD | (This position shall not be used) |
| 17A1 | KHMER LETTER LA                      | 17FE | (This position shall not be used) |
| 17A2 | KHMER LETTER QA                      | 17FF | (This position shall not be used) |
| 17A3 | KHMER INDEPENDENT VOWEL QAO          |      |                                   |
| 17A4 | KHMER INDEPENDENT VOWEL QAA          |      |                                   |
| 17A5 | KHMER INDEPENDENT VOWEL QI           |      |                                   |
| 17A6 | KHMER INDEPENDENT VOWEL QII          |      |                                   |
| 17A7 | KHMER INDEPENDENT VOWEL QU           |      |                                   |
| 17A8 | KHMER INDEPENDENT VOWEL QUK          |      |                                   |
| 17A9 | KHMER INDEPENDENT VOWEL QUU          |      |                                   |
| 17AA | KHMER INDEPENDENT VOWEL QUUV         |      |                                   |
| 17AB | KHMER INDEPENDENT VOWEL RY           |      |                                   |
| 17AC | KHMER INDEPENDENT VOWEL RYY          |      |                                   |
| 17AD | KHMER INDEPENDENT VOWEL LY           |      |                                   |
| 17AE | KHMER INDEPENDENT VOWEL LYY          |      |                                   |
| 17AF | KHMER INDEPENDENT VOWEL QE           |      |                                   |
| 17B0 | KHMER INDEPENDENT VOWEL QAI          |      |                                   |
| 17B1 | KHMER INDEPENDENT VOWEL QOO TYPE ONE |      |                                   |
| 17B2 | KHMER INDEPENDENT VOWEL QOO TYPE TWO |      |                                   |
| 17B3 | KHMER INDEPENDENT VOWEL QAU          |      |                                   |
| 17B4 | KHMER VOWEL INHERENT AQ              |      |                                   |
| 17B5 | KHMER VOWEL INHERENT AA              |      |                                   |
| 17B6 | KHMER VOWEL SIGN AA                  |      |                                   |
| 17B7 | KHMER VOWEL SIGN I                   |      |                                   |
| 17B8 | KHMER VOWEL SIGN II                  |      |                                   |
| 17B9 | KHMER VOWEL SIGN Y                   |      |                                   |
| 17BA | KHMER VOWEL SIGN YY                  |      |                                   |
| 17BB | KHMER VOWEL SIGN U                   |      |                                   |
| 17BC | KHMER VOWEL SIGN UU                  |      |                                   |
| 17BD | KHMER VOWEL SIGN UA                  |      |                                   |
| 17BE | KHMER VOWEL SIGN OE                  |      |                                   |
| 17BF | KHMER VOWEL SIGN YA                  |      |                                   |
| 17C0 | KHMER VOWEL SIGN IE                  |      |                                   |
| 17C1 | KHMER VOWEL SIGN E                   |      |                                   |
| 17C2 | KHMER VOWEL SIGN AE                  |      |                                   |
| 17C3 | KHMER VOWEL SIGN AI                  |      |                                   |
| 17C4 | KHMER VOWEL SIGN OO                  |      |                                   |
| 17C5 | KHMER VOWEL SIGN AU                  |      |                                   |
| 17C6 | KHMER SIGN NIKAHIT                   |      |                                   |
| 17C7 | KHMER SIGN REAHMUK                   |      |                                   |
| 17C8 | KHMER SIGN YUUKALEAPINTU             |      |                                   |
| 17C9 | KHMER SIGN MUUSIKATOAN               |      |                                   |
| 17CA | KHMER SIGN TRIISAP                   |      |                                   |
| 17CB | KHMER SIGN BANTOC                    |      |                                   |
| 17CC | KHMER SIGN ROBAT                     |      |                                   |
| 17CD | KHMER SIGN TOANDAKHIAT               |      |                                   |
| 17CE | KHMER SIGN KAKABAT                   |      |                                   |
| 17CF | KHMER SIGN AHSDA                     |      |                                   |
| 17D0 | KHMER SIGN SAMYOK SANNYA             |      |                                   |
| 17D1 | KHMER SIGN VIRIAM                    |      |                                   |
| 17D2 | KHMER SIGN COENG                     |      |                                   |
| 17D3 | KHMER SIGN BATHAMASAT                |      |                                   |
| 17D4 | KHMER SIGN KHAN                      |      |                                   |
| 17D5 | KHMER SIGN BARIYOOSAN                |      |                                   |
| 17D6 | KHMER SIGN CAMNUC PII KUUH           |      |                                   |
| 17D7 | KHMER SIGN LEK TOO                   |      |                                   |
| 17D8 | KHMER SIGN BEYYAL                    |      |                                   |
| 17D9 | KHMER SIGN PHNAEK MUAN               |      |                                   |
| 17DA | KHMER SIGN KOOMUUT                   |      |                                   |
| 17DB | KHMER CURRENCY SYMBOL RIEL           |      |                                   |
| 17DC | KHMER SIGN AVAKRAHASANYA             |      |                                   |

Group 00

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Row 17

Table 58 - Row 20: General Punctuation

|   | 200                                                                                         | 201                                                                                       | 202                                                                                         | 203        | 204        | 205                                                                                         | 206                                                                                          |
|---|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 0 | <br>2000   | —<br>2010                                                                                 | †<br>2020                                                                                   | ‰<br>2030  | —<br>2040  | ⌒<br>2050                                                                                   | WJ<br>2060                                                                                   |
| 1 | <br>2001   | <br>2011 | ‡<br>2021                                                                                   | ‱<br>2031  | ℓ<br>2041  | *<br>2051                                                                                   | f()<br>2061                                                                                  |
| 2 | <br>2002   | —<br>2012                                                                                 | •<br>2022                                                                                   | ′<br>2032  | **<br>2042 | %<br>2052                                                                                   | ×<br>2062                                                                                    |
| 3 | <br>2003   | —<br>2013                                                                                 | ▶<br>2023                                                                                   | ″<br>2033  | ■<br>2043  |                                                                                             | <br>2063   |
| 4 | <br>2004   | —<br>2014                                                                                 | •<br>2024                                                                                   | ″<br>2034  | /<br>2044  |                                                                                             |                                                                                              |
| 5 | <br>2005   | —<br>2015                                                                                 | ••<br>2025                                                                                  | ′<br>2035  | {<br>2045  |                                                                                             |                                                                                              |
| 6 | <br>2006  | <br>2016                                                                                  | ...<br>2026                                                                                 | ″<br>2036  | }<br>2046  |                                                                                             |                                                                                              |
| 7 | <br>2007 | =<br>2017                                                                                 | •<br>2027                                                                                   | ≡<br>2037  | ??<br>2047 | ≡<br>2057                                                                                   |                                                                                              |
| 8 | <br>2008 | ‘<br>2018                                                                                 | <br>2028 | ^<br>2038  | ?!<br>2048 |                                                                                             |                                                                                              |
| 9 | <br>2009 | ,<br>2019                                                                                 | <br>2029 | <<br>2039  | !?<br>2049 |                                                                                             |                                                                                              |
| A | <br>200A | ,<br>201A                                                                                 | <br>202A | ><br>203A  | 7<br>204A  |                                                                                             | <br>206A |
| B | <br>200B | ‘<br>201B                                                                                 | <br>202B | ⊗<br>203B  | ¶<br>204B  |                                                                                             | <br>206B |
| C | <br>200C | “<br>201C                                                                                 | <br>202C | !!<br>203C | ◐<br>204C  |                                                                                             | <br>206C |
| D | <br>200D | ”<br>201D                                                                                 | <br>202D | !?<br>203D | ◑<br>204D  |                                                                                             | <br>206D |
| E | <br>200E | ”<br>201E                                                                                 | <br>202E | —<br>203E  | *<br>204E  |                                                                                             | <br>206E |
| F | <br>200F | “<br>201F                                                                                 | <br>202F | —<br>203F  | •<br>204F  | <br>205F | <br>206F |

G = 00  
P = 00

Table 58 - Row 20: General Punctuation

| HEX  | NAME                                       | HEX  | NAME                              |
|------|--------------------------------------------|------|-----------------------------------|
| 2000 | EN QUAD                                    | 205D | (This position shall not be used) |
| 2001 | EM QUAD                                    | 205E | (This position shall not be used) |
| 2002 | EN SPACE                                   | 205F | MEDIUM MATHEMATICAL SPACE         |
| 2003 | EM SPACE                                   | 2060 | WORD JOINER                       |
| 2004 | THREE-PER-EM SPACE                         | 2061 | FUNCTION APPLICATION              |
| 2005 | FOUR-PER-EM SPACE                          | 2062 | INVISIBLE TIMES                   |
| 2006 | SIX-PER-EM SPACE                           | 2063 | INVISIBLE SEPARATOR               |
| 2007 | FIGURE SPACE                               | 2064 | (This position shall not be used) |
| 2008 | PUNCTUATION SPACE                          | 2065 | (This position shall not be used) |
| 2009 | THIN SPACE                                 | 2066 | (This position shall not be used) |
| 200A | HAIR SPACE                                 | 2067 | (This position shall not be used) |
| 200B | ZERO WIDTH SPACE                           | 2068 | (This position shall not be used) |
| 200C | ZERO WIDTH NON-JOINER                      | 2069 | (This position shall not be used) |
| 200D | ZERO WIDTH JOINER                          | 206A | INHIBIT SYMMETRIC SWAPPING        |
| 200E | LEFT-TO-RIGHT MARK                         | 206B | ACTIVATE SYMMETRIC SWAPPING       |
| 200F | RIGHT-TO-LEFT MARK                         | 206C | INHIBIT ARABIC FORM SHAPING       |
| 2010 | HYPHEN                                     | 206D | ACTIVATE ARABIC FORM SHAPING      |
| 2011 | NON-BREAKING HYPHEN                        | 206E | NATIONAL DIGIT SHAPES             |
| 2012 | FIGURE DASH                                | 206F | NOMINAL DIGIT SHAPES              |
| 2013 | EN DASH                                    |      |                                   |
| 2014 | EM DASH                                    |      |                                   |
| 2015 | HORIZONTAL BAR                             |      |                                   |
| 2016 | DOUBLE VERTICAL LINE                       |      |                                   |
| 2017 | DOUBLE LOW LINE                            |      |                                   |
| 2018 | LEFT SINGLE QUOTATION MARK                 |      |                                   |
| 2019 | RIGHT SINGLE QUOTATION MARK                |      |                                   |
| 201A | SINGLE LOW-9 QUOTATION MARK                |      |                                   |
| 201B | SINGLE HIGH-REVERSED-9 QUOTATION MARK      |      |                                   |
| 201C | LEFT DOUBLE QUOTATION MARK                 |      |                                   |
| 201D | RIGHT DOUBLE QUOTATION MARK                |      |                                   |
| 201E | DOUBLE LOW-9 QUOTATION MARK                |      |                                   |
| 201F | DOUBLE HIGH-REVERSED-9 QUOTATION MARK      |      |                                   |
| 2020 | DAGGER                                     |      |                                   |
| 2021 | DOUBLE DAGGER                              |      |                                   |
| 2022 | BULLET                                     |      |                                   |
| 2023 | TRIANGULAR BULLET                          |      |                                   |
| 2024 | ONE DOT LEADER                             |      |                                   |
| 2025 | TWO DOT LEADER                             |      |                                   |
| 2026 | HORIZONTAL ELLIPSIS                        |      |                                   |
| 2027 | HYPHENATION POINT                          |      |                                   |
| 2028 | LINE SEPARATOR                             |      |                                   |
| 2029 | PARAGRAPH SEPARATOR                        |      |                                   |
| 202A | LEFT-TO-RIGHT EMBEDDING                    |      |                                   |
| 202B | RIGHT-TO-LEFT EMBEDDING                    |      |                                   |
| 202C | POP DIRECTIONAL FORMATTING                 |      |                                   |
| 202D | LEFT-TO-RIGHT OVERRIDE                     |      |                                   |
| 202E | RIGHT-TO-LEFT OVERRIDE                     |      |                                   |
| 202F | NARROW NO-BREAK SPACE                      |      |                                   |
| 2030 | PER MILLE SIGN                             |      |                                   |
| 2031 | PER TEN THOUSAND SIGN                      |      |                                   |
| 2032 | PRIME                                      |      |                                   |
| 2033 | DOUBLE PRIME                               |      |                                   |
| 2034 | TRIPLE PRIME                               |      |                                   |
| 2035 | REVERSED PRIME                             |      |                                   |
| 2036 | REVERSED DOUBLE PRIME                      |      |                                   |
| 2037 | REVERSED TRIPLE PRIME                      |      |                                   |
| 2038 | CARET                                      |      |                                   |
| 2039 | SINGLE LEFT-POINTING ANGLE QUOTATION MARK  |      |                                   |
| 203A | SINGLE RIGHT-POINTING ANGLE QUOTATION MARK |      |                                   |
| 203B | REFERENCE MARK                             |      |                                   |
| 203C | DOUBLE EXCLAMATION MARK                    |      |                                   |
| 203D | INTERROBANG                                |      |                                   |
| 203E | OVERLINE                                   |      |                                   |
| 203F | UNDERTIE (Enotikon)                        |      |                                   |
| 2040 | CHARACTER TIE                              |      |                                   |
| 2041 | CARET INSERTION POINT                      |      |                                   |
| 2042 | ASTERISM                                   |      |                                   |
| 2043 | HYPHEN BULLET                              |      |                                   |
| 2044 | FRACTION SLASH                             |      |                                   |
| 2045 | LEFT SQUARE BRACKET WITH QUILL             |      |                                   |
| 2046 | RIGHT SQUARE BRACKET WITH QUILL            |      |                                   |
| 2047 | DOUBLE QUESTION MARK                       |      |                                   |
| 2048 | QUESTION EXCLAMATION MARK                  |      |                                   |
| 2049 | EXCLAMATION QUESTION MARK                  |      |                                   |
| 204A | TIRONIAN SIGN ET                           |      |                                   |
| 204B | REVERSED PILCROW SIGN                      |      |                                   |
| 204C | BLACK LEFTWARDS BULLET                     |      |                                   |
| 204D | BLACK RIGHTWARDS BULLET                    |      |                                   |
| 204E | LOW ASTERISK                               |      |                                   |
| 204F | REVERSED SEMICOLON                         |      |                                   |
| 2050 | CLOSE UP                                   |      |                                   |
| 2051 | TWO ASTERISKS ALIGNED VERTICALLY           |      |                                   |
| 2052 | COMMERCIAL MINUS SIGN                      |      |                                   |
| 2053 | (This position shall not be used)          |      |                                   |
| 2054 | (This position shall not be used)          |      |                                   |
| 2055 | (This position shall not be used)          |      |                                   |
| 2056 | (This position shall not be used)          |      |                                   |
| 2057 | QUADRUPLE PRIME                            |      |                                   |
| 2058 | (This position shall not be used)          |      |                                   |
| 2059 | (This position shall not be used)          |      |                                   |
| 205A | (This position shall not be used)          |      |                                   |
| 205B | (This position shall not be used)          |      |                                   |
| 205C | (This position shall not be used)          |      |                                   |

Group 00

Plane 00

Row 20

**Table 59 - Row 20: Superscripts and Subscripts**

|   | 207       | 208       | 209 |
|---|-----------|-----------|-----|
| 0 | 0<br>2070 | 0<br>2080 |     |
| 1 | i<br>2071 | 1<br>2081 |     |
| 2 |           | 2<br>2082 |     |
| 3 |           | 3<br>2083 |     |
| 4 | 4<br>2074 | 4<br>2084 |     |
| 5 | 5<br>2075 | 5<br>2085 |     |
| 6 | 6<br>2076 | 6<br>2086 |     |
| 7 | 7<br>2077 | 7<br>2087 |     |
| 8 | 8<br>2078 | 8<br>2088 |     |
| 9 | 9<br>2079 | 9<br>2089 |     |
| A | +<br>207A | +<br>208A |     |
| B | —<br>207B | —<br>208B |     |
| C | =<br>207C | =<br>208C |     |
| D | (<br>207D | (<br>208D |     |
| E | )<br>207E | )<br>208E |     |
| F | n<br>207F |           |     |

**G = 00**  
**P = 00**

Table 59 - Row 20: Superscripts and Subscripts

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 2070 | SUPERSCRIPIT ZERO                 |     |      |
| 2071 | SUPERSCRIPIT LATIN SMALL LETTER I |     |      |
| 2072 | (This position shall not be used) |     |      |
| 2073 | (This position shall not be used) |     |      |
| 2074 | SUPERSCRIPIT FOUR                 |     |      |
| 2075 | SUPERSCRIPIT FIVE                 |     |      |
| 2076 | SUPERSCRIPIT SIX                  |     |      |
| 2077 | SUPERSCRIPIT SEVEN                |     |      |
| 2078 | SUPERSCRIPIT EIGHT                |     |      |
| 2079 | SUPERSCRIPIT NINE                 |     |      |
| 207A | SUPERSCRIPIT PLUS SIGN            |     |      |
| 207B | SUPERSCRIPIT MINUS                |     |      |
| 207C | SUPERSCRIPIT EQUALS SIGN          |     |      |
| 207D | SUPERSCRIPIT LEFT PARENTHESIS     |     |      |
| 207E | SUPERSCRIPIT RIGHT PARENTHESIS    |     |      |
| 207F | SUPERSCRIPIT LATIN SMALL LETTER N |     |      |
| 2080 | SUBSCRIPT ZERO                    |     |      |
| 2081 | SUBSCRIPT ONE                     |     |      |
| 2082 | SUBSCRIPT TWO                     |     |      |
| 2083 | SUBSCRIPT THREE                   |     |      |
| 2084 | SUBSCRIPT FOUR                    |     |      |
| 2085 | SUBSCRIPT FIVE                    |     |      |
| 2086 | SUBSCRIPT SIX                     |     |      |
| 2087 | SUBSCRIPT SEVEN                   |     |      |
| 2088 | SUBSCRIPT EIGHT                   |     |      |
| 2089 | SUBSCRIPT NINE                    |     |      |
| 208A | SUBSCRIPT PLUS SIGN               |     |      |
| 208B | SUBSCRIPT MINUS                   |     |      |
| 208C | SUBSCRIPT EQUALS SIGN             |     |      |
| 208D | SUBSCRIPT LEFT PARENTHESIS        |     |      |
| 208E | SUBSCRIPT RIGHT PARENTHESIS       |     |      |
| 208F | (This position shall not be used) |     |      |
| 2090 | (This position shall not be used) |     |      |
| 2091 | (This position shall not be used) |     |      |
| 2092 | (This position shall not be used) |     |      |
| 2093 | (This position shall not be used) |     |      |
| 2094 | (This position shall not be used) |     |      |
| 2095 | (This position shall not be used) |     |      |
| 2096 | (This position shall not be used) |     |      |
| 2097 | (This position shall not be used) |     |      |
| 2098 | (This position shall not be used) |     |      |
| 2099 | (This position shall not be used) |     |      |
| 209A | (This position shall not be used) |     |      |
| 209B | (This position shall not be used) |     |      |
| 209C | (This position shall not be used) |     |      |
| 209D | (This position shall not be used) |     |      |
| 209E | (This position shall not be used) |     |      |
| 209F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 20

**Table 60 - Row 20: Currency Symbols**

|   | 20A         | 20B       | 20C |
|---|-------------|-----------|-----|
| 0 | ₣<br>20A0   | ₧<br>20B0 |     |
| 1 | ₡<br>20A1   | ₪<br>20B1 |     |
| 2 | ₣<br>20A2   |           |     |
| 3 | ₣<br>20A3   |           |     |
| 4 | ₣<br>20A4   |           |     |
| 5 | ₣<br>20A5   |           |     |
| 6 | ₣<br>20A6   |           |     |
| 7 | Pts<br>20A7 |           |     |
| 8 | Rs<br>20A8  |           |     |
| 9 | ₣<br>20A9   |           |     |
| A | ₣<br>20AA   |           |     |
| B | ₣<br>20AB   |           |     |
| C | ₣<br>20AC   |           |     |
| D | ₣<br>20AD   |           |     |
| E | ₣<br>20AE   |           |     |
| F | ₣<br>20AF   |           |     |

G = 00  
P = 00

Table 60 - Row 20: Currency Symbols

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 20A0 | EURO-CURRENCY SIGN                |     |      |
| 20A1 | COLON SIGN                        |     |      |
| 20A2 | CRUZEIRO SIGN                     |     |      |
| 20A3 | FRENCH FRANC SIGN                 |     |      |
| 20A4 | LIRA SIGN                         |     |      |
| 20A5 | MILL SIGN                         |     |      |
| 20A6 | NAIRA SIGN                        |     |      |
| 20A7 | PESETA SIGN                       |     |      |
| 20A8 | RUPEE SIGN                        |     |      |
| 20A9 | WON SIGN                          |     |      |
| 20AA | NEW SHEQEL SIGN                   |     |      |
| 20AB | DONG SIGN                         |     |      |
| 20AC | EURO SIGN                         |     |      |
| 20AD | KIP SIGN                          |     |      |
| 20AE | TUGRIK SIGN                       |     |      |
| 20AF | DRACHMA SIGN                      |     |      |
| 20B0 | GERMAN PENNY SIGN                 |     |      |
| 20B1 | PESO SIGN                         |     |      |
| 20B2 | (This position shall not be used) |     |      |
| 20B3 | (This position shall not be used) |     |      |
| 20B4 | (This position shall not be used) |     |      |
| 20B5 | (This position shall not be used) |     |      |
| 20B6 | (This position shall not be used) |     |      |
| 20B7 | (This position shall not be used) |     |      |
| 20B8 | (This position shall not be used) |     |      |
| 20B9 | (This position shall not be used) |     |      |
| 20BA | (This position shall not be used) |     |      |
| 20BB | (This position shall not be used) |     |      |
| 20BC | (This position shall not be used) |     |      |
| 20BD | (This position shall not be used) |     |      |
| 20BE | (This position shall not be used) |     |      |
| 20BF | (This position shall not be used) |     |      |
| 20C0 | (This position shall not be used) |     |      |
| 20C1 | (This position shall not be used) |     |      |
| 20C2 | (This position shall not be used) |     |      |
| 20C3 | (This position shall not be used) |     |      |
| 20C4 | (This position shall not be used) |     |      |
| 20C5 | (This position shall not be used) |     |      |
| 20C6 | (This position shall not be used) |     |      |
| 20C7 | (This position shall not be used) |     |      |
| 20C8 | (This position shall not be used) |     |      |
| 20C9 | (This position shall not be used) |     |      |
| 20CA | (This position shall not be used) |     |      |
| 20CB | (This position shall not be used) |     |      |
| 20CC | (This position shall not be used) |     |      |
| 20CD | (This position shall not be used) |     |      |
| 20CE | (This position shall not be used) |     |      |
| 20CF | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 20

**Table 61 - Row 20: Combining Diacritical Marks for Symbols**

|   | 20D                                                                                         | 20E                                                                                         | 20F |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|
| 0 | <br>20D0   | <br>20E0   |     |
| 1 | <br>20D1   | <br>20E1   |     |
| 2 | <br>20D2   | <br>20E2   |     |
| 3 | <br>20D3   | <br>20E3   |     |
| 4 | <br>20D4   | <br>20E4   |     |
| 5 | <br>20D5   | <br>20E5   |     |
| 6 | <br>20D6   | <br>20E6   |     |
| 7 | <br>20D7 | <br>20E7 |     |
| 8 | <br>20D8 | <br>20E8 |     |
| 9 | <br>20D9 | <br>20E9 |     |
| A | <br>20DA | <br>20EA |     |
| B | <br>20DB |                                                                                             |     |
| C | <br>20DC |                                                                                             |     |
| D | <br>20DD |                                                                                             |     |
| E | <br>20DE |                                                                                             |     |
| F | <br>20DF |                                                                                             |     |

G = 00  
P = 00

**Table 61 - Row 20: Combining Diacritical Marks for Symbols**

| HEX  | NAME                                         | HEX | NAME |
|------|----------------------------------------------|-----|------|
| 20D0 | COMBINING LEFT HARPOON ABOVE                 |     |      |
| 20D1 | COMBINING RIGHT HARPOON ABOVE                |     |      |
| 20D2 | COMBINING LONG VERTICAL LINE OVERLAY         |     |      |
| 20D3 | COMBINING SHORT VERTICAL LINE OVERLAY        |     |      |
| 20D4 | COMBINING ANTICLOCKWISE ARROW ABOVE          |     |      |
| 20D5 | COMBINING CLOCKWISE ARROW ABOVE              |     |      |
| 20D6 | COMBINING LEFT ARROW ABOVE                   |     |      |
| 20D7 | COMBINING RIGHT ARROW ABOVE                  |     |      |
| 20D8 | COMBINING RING OVERLAY                       |     |      |
| 20D9 | COMBINING CLOCKWISE RING OVERLAY             |     |      |
| 20DA | COMBINING ANTICLOCKWISE RING OVERLAY         |     |      |
| 20DB | COMBINING THREE DOTS ABOVE                   |     |      |
| 20DC | COMBINING FOUR DOTS ABOVE                    |     |      |
| 20DD | COMBINING ENCLOSING CIRCLE                   |     |      |
| 20DE | COMBINING ENCLOSING SQUARE                   |     |      |
| 20DF | COMBINING ENCLOSING DIAMOND                  |     |      |
| 20E0 | COMBINING ENCLOSING CIRCLE BACKSLASH         |     |      |
| 20E1 | COMBINING LEFT RIGHT ARROW ABOVE             |     |      |
| 20E2 | COMBINING ENCLOSING SCREEN                   |     |      |
| 20E3 | COMBINING ENCLOSING KEYCAP                   |     |      |
| 20E4 | COMBINING ENCLOSING UPWARD POINTING TRIANGLE |     |      |
| 20E5 | COMBINING REVERSE SOLIDUS OVERLAY            |     |      |
| 20E6 | COMBINING DOUBLE VERTICAL STROKE OVERLAY     |     |      |
| 20E7 | COMBINING ANNUITY SYMBOL                     |     |      |
| 20E8 | COMBINING TRIPLE UNDERDOT                    |     |      |
| 20E9 | COMBINING WIDE BRIDGE ABOVE                  |     |      |
| 20EA | COMBINING LEFTWARDS ARROW OVERLAY            |     |      |
| 20EB | (This position shall not be used)            |     |      |
| 20EC | (This position shall not be used)            |     |      |
| 20ED | (This position shall not be used)            |     |      |
| 20EE | (This position shall not be used)            |     |      |
| 20EF | (This position shall not be used)            |     |      |
| 20F0 | (This position shall not be used)            |     |      |
| 20F1 | (This position shall not be used)            |     |      |
| 20F2 | (This position shall not be used)            |     |      |
| 20F3 | (This position shall not be used)            |     |      |
| 20F4 | (This position shall not be used)            |     |      |
| 20F5 | (This position shall not be used)            |     |      |
| 20F6 | (This position shall not be used)            |     |      |
| 20F7 | (This position shall not be used)            |     |      |
| 20F8 | (This position shall not be used)            |     |      |
| 20F9 | (This position shall not be used)            |     |      |
| 20FA | (This position shall not be used)            |     |      |
| 20FB | (This position shall not be used)            |     |      |
| 20FC | (This position shall not be used)            |     |      |
| 20FD | (This position shall not be used)            |     |      |
| 20FE | (This position shall not be used)            |     |      |
| 20FF | (This position shall not be used)            |     |      |

Group 00

Plane 00

Row 20

Table 62 - Row 21: Letterlike Symbols

|   | 210                           | 211                     | 212                   | 213                   | 214                   |
|---|-------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| 0 | $\alpha/c$<br>2100            | $\mathcal{I}$<br>2110   | SM<br>2120            | $\mathcal{E}$<br>2130 | $\Sigma$<br>2140      |
| 1 | $\alpha/s$<br>2101            | $\mathcal{J}$<br>2111   | TEL<br>2121           | $\mathcal{F}$<br>2131 | $\mathcal{G}$<br>2141 |
| 2 | $\mathcal{C}$<br>2102         | $\mathcal{L}$<br>2112   | TM<br>2122            | $\mathcal{H}$<br>2132 | $\mathcal{T}$<br>2142 |
| 3 | $^{\circ}\mathcal{C}$<br>2103 | $\ell$<br>2113          | $\mathcal{V}$<br>2123 | $\mathcal{M}$<br>2133 | $\mathcal{J}$<br>2143 |
| 4 | $\mathcal{C}$<br>2104         | $\mathcal{W}$<br>2114   | $\mathcal{Z}$<br>2124 | $\mathcal{e}$<br>2134 | $\mathcal{A}$<br>2144 |
| 5 | $\mathcal{C}/o$<br>2105       | $\mathcal{N}$<br>2115   | $\mathcal{Z}$<br>2125 | $\mathcal{X}$<br>2135 | $\mathcal{D}$<br>2145 |
| 6 | $\mathcal{C}/u$<br>2106       | $\mathcal{N}_o$<br>2116 | $\mathcal{O}$<br>2126 | $\mathcal{J}$<br>2136 | $\mathcal{d}$<br>2146 |
| 7 | $\mathcal{E}$<br>2107         | $\mathcal{P}$<br>2117   | $\mathcal{U}$<br>2127 | $\mathcal{J}$<br>2137 | $\mathcal{e}$<br>2147 |
| 8 | $\mathcal{D}$<br>2108         | $\mathcal{P}$<br>2118   | $\mathcal{Z}$<br>2128 | $\mathcal{T}$<br>2138 | $\mathcal{i}$<br>2148 |
| 9 | $^{\circ}\mathcal{F}$<br>2109 | $\mathcal{P}$<br>2119   | $\mathcal{I}$<br>2129 | $\mathcal{i}$<br>2139 | $\mathcal{j}$<br>2149 |
| A | $\mathcal{J}$<br>210A         | $\mathcal{Q}$<br>211A   | $\mathcal{K}$<br>212A | $\mathcal{O}$<br>213A | $\mathcal{P}$<br>214A |
| B | $\mathcal{H}$<br>210B         | $\mathcal{R}$<br>211B   | $\mathcal{A}$<br>212B |                       | $\mathcal{X}$<br>214B |
| C | $\mathcal{S}$<br>210C         | $\mathcal{R}$<br>211C   | $\mathcal{B}$<br>212C |                       |                       |
| D | $\mathcal{H}$<br>210D         | $\mathcal{R}$<br>211D   | $\mathcal{C}$<br>212D | $\mathcal{Y}$<br>213D |                       |
| E | $\mathcal{h}$<br>210E         | $\mathcal{R}$<br>211E   | $\mathcal{e}$<br>212E | $\mathcal{T}$<br>213E |                       |
| F | $\mathcal{h}$<br>210F         | $\mathcal{R}$<br>211F   | $\mathcal{e}$<br>212F | $\mathcal{T}$<br>213F |                       |

G = 00  
P = 00

Table 62 - Row 21: Letterlike Symbols

| HEX  | NAME                              | HEX | NAME |
|------|-----------------------------------|-----|------|
| 2100 | ACCOUNT OF                        |     |      |
| 2101 | ADDRESSED TO THE SUBJECT          |     |      |
| 2102 | DOUBLE-STRUCK CAPITAL C           |     |      |
| 2103 | DEGREE CELSIUS                    |     |      |
| 2104 | CENTRE LINE SYMBOL                |     |      |
| 2105 | CARE OF                           |     |      |
| 2106 | CADA UNA                          |     |      |
| 2107 | EULER CONSTANT                    |     |      |
| 2108 | SCRUPLE                           |     |      |
| 2109 | DEGREE FAHRENHEIT                 |     |      |
| 210A | SCRIPT SMALL G                    |     |      |
| 210B | SCRIPT CAPITAL H                  |     |      |
| 210C | BLACK-LETTER CAPITAL H            |     |      |
| 210D | DOUBLE-STRUCK CAPITAL H           |     |      |
| 210E | PLANCK CONSTANT                   |     |      |
| 210F | PLANCK CONSTANT OVER TWO PI       |     |      |
| 2110 | SCRIPT CAPITAL I                  |     |      |
| 2111 | BLACK-LETTER CAPITAL I            |     |      |
| 2112 | SCRIPT CAPITAL L                  |     |      |
| 2113 | SCRIPT SMALL L                    |     |      |
| 2114 | L B BAR SYMBOL                    |     |      |
| 2115 | DOUBLE-STRUCK CAPITAL N           |     |      |
| 2116 | NUMERO SIGN                       |     |      |
| 2117 | SOUND RECORDING COPYRIGHT         |     |      |
| 2118 | SCRIPT CAPITAL P                  |     |      |
| 2119 | DOUBLE-STRUCK CAPITAL P           |     |      |
| 211A | DOUBLE-STRUCK CAPITAL Q           |     |      |
| 211B | SCRIPT CAPITAL R                  |     |      |
| 211C | BLACK-LETTER CAPITAL R            |     |      |
| 211D | DOUBLE-STRUCK CAPITAL R           |     |      |
| 211E | PRESCRIPTION TAKE                 |     |      |
| 211F | RESPONSE                          |     |      |
| 2120 | SERVICE MARK                      |     |      |
| 2121 | TELEPHONE SIGN                    |     |      |
| 2122 | TRADE MARK SIGN                   |     |      |
| 2123 | VERSICLE                          |     |      |
| 2124 | DOUBLE-STRUCK CAPITAL Z           |     |      |
| 2125 | OUNCE SIGN                        |     |      |
| 2126 | OHM SIGN                          |     |      |
| 2127 | INVERTED OHM SIGN                 |     |      |
| 2128 | BLACK-LETTER CAPITAL Z            |     |      |
| 2129 | TURNED GREEK SMALL LETTER IOTA    |     |      |
| 212A | KELVIN SIGN                       |     |      |
| 212B | ANGSTROM SIGN                     |     |      |
| 212C | SCRIPT CAPITAL B                  |     |      |
| 212D | BLACK-LETTER CAPITAL C            |     |      |
| 212E | ESTIMATED SYMBOL                  |     |      |
| 212F | SCRIPT SMALL E                    |     |      |
| 2130 | SCRIPT CAPITAL E                  |     |      |
| 2131 | SCRIPT CAPITAL F                  |     |      |
| 2132 | TURNED CAPITAL F                  |     |      |
| 2133 | SCRIPT CAPITAL M                  |     |      |
| 2134 | SCRIPT SMALL O                    |     |      |
| 2135 | ALEF SYMBOL                       |     |      |
| 2136 | BET SYMBOL                        |     |      |
| 2137 | GIMEL SYMBOL                      |     |      |
| 2138 | DALET SYMBOL                      |     |      |
| 2139 | INFORMATION SOURCE                |     |      |
| 213A | ROTATED CAPITAL Q                 |     |      |
| 213B | (This position shall not be used) |     |      |
| 213C | (This position shall not be used) |     |      |
| 213D | DOUBLE-STRUCK SMALL GAMMA         |     |      |
| 213E | DOUBLE-STRUCK CAPITAL GAMMA       |     |      |
| 213F | DOUBLE-STRUCK CAPITAL P           |     |      |
| 2140 | DOUBLE-STRUCK N-ARY SUMMATION     |     |      |
| 2141 | TURNED SANS-SERIF CAPITAL G       |     |      |
| 2142 | TURNED SANS-SERIF CAPITAL L       |     |      |
| 2143 | REVERSED SANS-SERIF CAPITAL L     |     |      |
| 2144 | TURNED SANS-SERIF CAPITAL Y       |     |      |
| 2145 | DOUBLE-STRUCK ITALIC CAPITAL D    |     |      |
| 2146 | DOUBLE-STRUCK ITALIC SMALL D      |     |      |
| 2147 | DOUBLE-STRUCK ITALIC SMALL E      |     |      |
| 2148 | DOUBLE-STRUCK ITALIC SMALL I      |     |      |
| 2149 | DOUBLE-STRUCK ITALIC SMALL J      |     |      |
| 214A | PROPERTY LINE                     |     |      |
| 214B | TURNED AMPERSAND                  |     |      |
| 214C | (This position shall not be used) |     |      |
| 214D | (This position shall not be used) |     |      |
| 214E | (This position shall not be used) |     |      |
| 214F | (This position shall not be used) |     |      |

Group 00

Plane 00

Row 21

**Table 64 - Row 21: Arrows**

|   | 219                                                                                 | 21A                                                                                 | 21B                                                                                 | 21C                                                                                 | 21D                                                                                 | 21E                                                                                 | 21F                                                                                  |
|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 0 |    |    |    |    |    |    |    |
|   | 2190                                                                                | 21A0                                                                                | 21B0                                                                                | 21C0                                                                                | 21D0                                                                                | 21E0                                                                                | 21F0                                                                                 |
| 1 |    |    |    |    |    |    |    |
|   | 2191                                                                                | 21A1                                                                                | 21B1                                                                                | 21C1                                                                                | 21D1                                                                                | 21E1                                                                                | 21F1                                                                                 |
| 2 |    |    |    |    |    |    |    |
|   | 2192                                                                                | 21A2                                                                                | 21B2                                                                                | 21C2                                                                                | 21D2                                                                                | 21E2                                                                                | 21F2                                                                                 |
| 3 |    |    |    |    |    |    |    |
|   | 2193                                                                                | 21A3                                                                                | 21B3                                                                                | 21C3                                                                                | 21D3                                                                                | 21E3                                                                                | 21F3                                                                                 |
| 4 |    |    |    |    |    |    |    |
|   | 2194                                                                                | 21A4                                                                                | 21B4                                                                                | 21C4                                                                                | 21D4                                                                                | 21E4                                                                                | 21F4                                                                                 |
| 5 |    |    |    |    |    |    |    |
|   | 2195                                                                                | 21A5                                                                                | 21B5                                                                                | 21C5                                                                                | 21D5                                                                                | 21E5                                                                                | 21F5                                                                                 |
| 6 |    |    |    |    |    |    |    |
|   | 2196                                                                                | 21A6                                                                                | 21B6                                                                                | 21C6                                                                                | 21D6                                                                                | 21E6                                                                                | 21F6                                                                                 |
| 7 |  |  |  |  |  |  |  |
|   | 2197                                                                                | 21A7                                                                                | 21B7                                                                                | 21C7                                                                                | 21D7                                                                                | 21E7                                                                                | 21F7                                                                                 |
| 8 |  |  |  |  |  |  |  |
|   | 2198                                                                                | 21A8                                                                                | 21B8                                                                                | 21C8                                                                                | 21D8                                                                                | 21E8                                                                                | 21F8                                                                                 |
| 9 |  |  |  |  |  |  |  |
|   | 2199                                                                                | 21A9                                                                                | 21B9                                                                                | 21C9                                                                                | 21D9                                                                                | 21E9                                                                                | 21F9                                                                                 |
| A |  |  |  |  |  |  |  |
|   | 219A                                                                                | 21AA                                                                                | 21BA                                                                                | 21CA                                                                                | 21DA                                                                                | 21EA                                                                                | 21FA                                                                                 |
| B |  |  |  |  |  |  |  |
|   | 219B                                                                                | 21AB                                                                                | 21BB                                                                                | 21CB                                                                                | 21DB                                                                                | 21EB                                                                                | 21FB                                                                                 |
| C |  |  |  |  |  |  |  |
|   | 219C                                                                                | 21AC                                                                                | 21BC                                                                                | 21CC                                                                                | 21DC                                                                                | 21EC                                                                                | 21FC                                                                                 |
| D |  |  |  |  |  |  |  |
|   | 219D                                                                                | 21AD                                                                                | 21BD                                                                                | 21CD                                                                                | 21DD                                                                                | 21ED                                                                                | 21FD                                                                                 |
| E |  |  |  |  |  |  |  |
|   | 219E                                                                                | 21AE                                                                                | 21BE                                                                                | 21CE                                                                                | 21DE                                                                                | 21EE                                                                                | 21FE                                                                                 |
| F |  |  |  |  |  |  |  |
|   | 219F                                                                                | 21AF                                                                                | 21BF                                                                                | 21CF                                                                                | 21DF                                                                                | 21EF                                                                                | 21FF                                                                                 |

G = 00  
P = 00

Table 64 - Row 21: Arrows

| HEX  | NAME                                                | HEX  | NAME                                              |
|------|-----------------------------------------------------|------|---------------------------------------------------|
| 2190 | LEFTWARDS ARROW                                     | 21ED | UPWARDS WHITE ARROW ON PEDESTAL WITH VERTICAL BAR |
| 2191 | UPWARDS ARROW                                       | 21EE | UPWARDS WHITE DOUBLE ARROW                        |
| 2192 | RIGHTWARDS ARROW                                    | 21EF | UPWARDS WHITE DOUBLE ARROW ON PEDESTAL            |
| 2193 | DOWNWARDS ARROW                                     | 21F0 | RIGHTWARDS WHITE ARROW FROM WALL                  |
| 2194 | LEFT RIGHT ARROW                                    | 21F1 | NORTH WEST ARROW TO CORNER                        |
| 2195 | UP DOWN ARROW                                       | 21F2 | SOUTH EAST ARROW TO CORNER                        |
| 2196 | NORTH WEST ARROW                                    | 21F3 | UP DOWN WHITE ARROW                               |
| 2197 | NORTH EAST ARROW                                    | 21F4 | RIGHT ARROW WITH SMALL CIRCLE                     |
| 2198 | SOUTH EAST ARROW                                    | 21F5 | DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW        |
| 2199 | SOUTH WEST ARROW                                    | 21F6 | THREE RIGHTWARDS ARROWS                           |
| 219A | LEFTWARDS ARROW WITH STROKE                         | 21F7 | LEFTWARDS ARROW WITH VERTICAL STROKE              |
| 219B | RIGHTWARDS ARROW WITH STROKE                        | 21F8 | RIGHTWARDS ARROW WITH VERTICAL STROKE             |
| 219C | LEFTWARDS WAVE ARROW                                | 21F9 | LEFT RIGHT ARROW WITH VERTICAL STROKE             |
| 219D | RIGHTWARDS WAVE ARROW                               | 21FA | LEFTWARDS ARROW WITH DOUBLE VERTICAL STROKE       |
| 219E | LEFTWARDS TWO HEADED ARROW                          | 21FB | RIGHTWARDS ARROW WITH DOUBLE VERTICAL STROKE      |
| 219F | UPWARDS TWO HEADED ARROW                            | 21FC | LEFT RIGHT ARROW WITH DOUBLE VERTICAL STROKE      |
| 21A0 | RIGHTWARDS TWO HEADED ARROW                         | 21FD | LEFTWARDS OPEN-HEADED ARROW                       |
| 21A1 | DOWNWARDS TWO HEADED ARROW                          | 21FE | RIGHTWARDS OPEN-HEADED ARROW                      |
| 21A2 | LEFTWARDS ARROW WITH TAIL                           | 21FF | LEFT RIGHT OPEN-HEADED ARROW                      |
| 21A3 | RIGHTWARDS ARROW WITH TAIL                          |      |                                                   |
| 21A4 | LEFTWARDS ARROW FROM BAR                            |      |                                                   |
| 21A5 | UPWARDS ARROW FROM BAR                              |      |                                                   |
| 21A6 | RIGHTWARDS ARROW FROM BAR                           |      |                                                   |
| 21A7 | DOWNWARDS ARROW FROM BAR                            |      |                                                   |
| 21A8 | UP DOWN ARROW WITH BASE                             |      |                                                   |
| 21A9 | LEFTWARDS ARROW WITH HOOK                           |      |                                                   |
| 21AA | RIGHTWARDS ARROW WITH HOOK                          |      |                                                   |
| 21AB | LEFTWARDS ARROW WITH LOOP                           |      |                                                   |
| 21AC | RIGHTWARDS ARROW WITH LOOP                          |      |                                                   |
| 21AD | LEFT RIGHT WAVE ARROW                               |      |                                                   |
| 21AE | LEFT RIGHT ARROW WITH STROKE                        |      |                                                   |
| 21AF | DOWNWARDS ZIGZAG ARROW                              |      |                                                   |
| 21B0 | UPWARDS ARROW WITH TIP LEFTWARDS                    |      |                                                   |
| 21B1 | UPWARDS ARROW WITH TIP RIGHTWARDS                   |      |                                                   |
| 21B2 | DOWNWARDS ARROW WITH TIP LEFTWARDS                  |      |                                                   |
| 21B3 | DOWNWARDS ARROW WITH TIP RIGHTWARDS                 |      |                                                   |
| 21B4 | RIGHTWARDS ARROW WITH CORNER DOWNWARDS              |      |                                                   |
| 21B5 | DOWNWARDS ARROW WITH CORNER LEFTWARDS               |      |                                                   |
| 21B6 | ANTICLOCKWISE TOP SEMICIRCLE ARROW                  |      |                                                   |
| 21B7 | CLOCKWISE TOP SEMICIRCLE ARROW                      |      |                                                   |
| 21B8 | NORTH WEST ARROW TO LONG BAR                        |      |                                                   |
| 21B9 | LEFTWARDS ARROW TO BAR OVER RIGHTWARDS ARROW TO BAR |      |                                                   |
| 21BA | ANTICLOCKWISE OPEN CIRCLE ARROW                     |      |                                                   |
| 21BB | CLOCKWISE OPEN CIRCLE ARROW                         |      |                                                   |
| 21BC | LEFTWARDS HARPOON WITH BARB UPWARDS                 |      |                                                   |
| 21BD | LEFTWARDS HARPOON WITH BARB DOWNWARDS               |      |                                                   |
| 21BE | UPWARDS HARPOON WITH BARB RIGHTWARDS                |      |                                                   |
| 21BF | UPWARDS HARPOON WITH BARB LEFTWARDS                 |      |                                                   |
| 21C0 | RIGHTWARDS HARPOON WITH BARB UPWARDS                |      |                                                   |
| 21C1 | RIGHTWARDS HARPOON WITH BARB DOWNWARDS              |      |                                                   |
| 21C2 | DOWNWARDS HARPOON WITH BARB RIGHTWARDS              |      |                                                   |
| 21C3 | DOWNWARDS HARPOON WITH BARB LEFTWARDS               |      |                                                   |
| 21C4 | RIGHTWARDS ARROW OVER LEFTWARDS ARROW               |      |                                                   |
| 21C5 | UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW          |      |                                                   |
| 21C6 | LEFTWARDS ARROW OVER RIGHTWARDS ARROW               |      |                                                   |
| 21C7 | LEFTWARDS PAIRED ARROWS                             |      |                                                   |
| 21C8 | UPWARDS PAIRED ARROWS                               |      |                                                   |
| 21C9 | RIGHTWARDS PAIRED ARROWS                            |      |                                                   |
| 21CA | DOWNWARDS PAIRED ARROWS                             |      |                                                   |
| 21CB | LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON           |      |                                                   |
| 21CC | RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON           |      |                                                   |
| 21CD | LEFTWARDS DOUBLE ARROW WITH STROKE                  |      |                                                   |
| 21CE | LEFT RIGHT DOUBLE ARROW WITH STROKE                 |      |                                                   |
| 21CF | RIGHTWARDS DOUBLE ARROW WITH STROKE                 |      |                                                   |
| 21D0 | LEFTWARDS DOUBLE ARROW                              |      |                                                   |
| 21D1 | UPWARDS DOUBLE ARROW                                |      |                                                   |
| 21D2 | RIGHTWARDS DOUBLE ARROW                             |      |                                                   |
| 21D3 | DOWNWARDS DOUBLE ARROW                              |      |                                                   |
| 21D4 | LEFT RIGHT DOUBLE ARROW                             |      |                                                   |
| 21D5 | UP DOWN DOUBLE ARROW                                |      |                                                   |
| 21D6 | NORTH WEST DOUBLE ARROW                             |      |                                                   |
| 21D7 | NORTH EAST DOUBLE ARROW                             |      |                                                   |
| 21D8 | SOUTH EAST DOUBLE ARROW                             |      |                                                   |
| 21D9 | SOUTH WEST DOUBLE ARROW                             |      |                                                   |
| 21DA | LEFTWARDS TRIPLE ARROW                              |      |                                                   |
| 21DB | RIGHTWARDS TRIPLE ARROW                             |      |                                                   |
| 21DC | LEFTWARDS SQUIGGLE ARROW                            |      |                                                   |
| 21DD | RIGHTWARDS SQUIGGLE ARROW                           |      |                                                   |
| 21DE | UPWARDS ARROW WITH DOUBLE STROKE                    |      |                                                   |
| 21DF | DOWNWARDS ARROW WITH DOUBLE STROKE                  |      |                                                   |
| 21E0 | LEFTWARDS DASHED ARROW                              |      |                                                   |
| 21E1 | UPWARDS DASHED ARROW                                |      |                                                   |
| 21E2 | RIGHTWARDS DASHED ARROW                             |      |                                                   |
| 21E3 | DOWNWARDS DASHED ARROW                              |      |                                                   |
| 21E4 | LEFTWARDS ARROW TO BAR                              |      |                                                   |
| 21E5 | RIGHTWARDS ARROW TO BAR                             |      |                                                   |
| 21E6 | LEFTWARDS WHITE ARROW                               |      |                                                   |
| 21E7 | UPWARDS WHITE ARROW                                 |      |                                                   |
| 21E8 | RIGHTWARDS WHITE ARROW                              |      |                                                   |
| 21E9 | DOWNWARDS WHITE ARROW                               |      |                                                   |
| 21EA | UPWARDS WHITE ARROW FROM BAR                        |      |                                                   |
| 21EB | UPWARDS WHITE ARROW ON PEDESTAL                     |      |                                                   |
| 21EC | UPWARDS WHITE ARROW ON PEDESTAL WITH HORIZONTAL BAR |      |                                                   |

Group 00

Plane 00

Row 21

Table 65 - Row 22: Mathematical Operators

|   | 220                    | 221                       | 222                    | 223                    | 224                    | 225                    | 226                    | 227                    |
|---|------------------------|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 0 | $\nabla$<br>2200       | $\sqcup$<br>2210          | $\angle$<br>2220       | $\mathfrak{H}$<br>2230 | $\wr$<br>2240          | $\doteq$<br>2250       | $\neq$<br>2260         | $\nless$<br>2270       |
| 1 | $\mathcal{C}$<br>2201  | $\Sigma$<br>2211          | $\Delta$<br>2221       | $\mathfrak{f}$<br>2231 | $\mathfrak{r}$<br>2241 | $\div$<br>2251         | $\equiv$<br>2261       | $\nless$<br>2271       |
| 2 | $\partial$<br>2202     | $-$<br>2212               | $\mathfrak{A}$<br>2222 | $\mathfrak{f}$<br>2232 | $\mathfrak{r}$<br>2242 | $\mathfrak{r}$<br>2252 | $\neq$<br>2262         | $\mathfrak{r}$<br>2272 |
| 3 | $\exists$<br>2203      | $\mp$<br>2213             | $\mathfrak{I}$<br>2223 | $\mathfrak{f}$<br>2233 | $\mathfrak{r}$<br>2243 | $\mathfrak{r}$<br>2253 | $\equiv$<br>2263       | $\mathfrak{r}$<br>2273 |
| 4 | $\mathfrak{A}$<br>2204 | $\mathfrak{I}$<br>2214    | $\mathfrak{I}$<br>2224 | $\mathfrak{I}$<br>2234 | $\mathfrak{r}$<br>2244 | $\mathfrak{r}$<br>2254 | $\mathfrak{r}$<br>2264 | $\mathfrak{r}$<br>2274 |
| 5 | $\emptyset$<br>2205    | $/$<br>2215               | $\mathfrak{I}$<br>2225 | $\mathfrak{I}$<br>2235 | $\mathfrak{r}$<br>2245 | $\mathfrak{r}$<br>2255 | $\mathfrak{r}$<br>2265 | $\mathfrak{r}$<br>2275 |
| 6 | $\Delta$<br>2206       | $\mathfrak{I}$<br>2216    | $\mathfrak{I}$<br>2226 | $\mathfrak{I}$<br>2236 | $\mathfrak{r}$<br>2246 | $\mathfrak{r}$<br>2256 | $\mathfrak{r}$<br>2266 | $\mathfrak{r}$<br>2276 |
| 7 | $\nabla$<br>2207       | $*$<br>2217               | $\mathfrak{A}$<br>2227 | $\mathfrak{I}$<br>2237 | $\mathfrak{r}$<br>2247 | $\mathfrak{r}$<br>2257 | $\mathfrak{r}$<br>2267 | $\mathfrak{r}$<br>2277 |
| 8 | $\in$<br>2208          | $\circ$<br>2218           | $\mathfrak{V}$<br>2228 | $\mathfrak{I}$<br>2238 | $\mathfrak{r}$<br>2248 | $\mathfrak{r}$<br>2258 | $\mathfrak{r}$<br>2268 | $\mathfrak{r}$<br>2278 |
| 9 | $\notin$<br>2209       | $\bullet$<br>2219         | $\cap$<br>2229         | $\mathfrak{I}$<br>2239 | $\mathfrak{r}$<br>2249 | $\mathfrak{r}$<br>2259 | $\mathfrak{r}$<br>2269 | $\mathfrak{r}$<br>2279 |
| A | $\in$<br>220A          | $\sqrt{\quad}$<br>221A    | $\cup$<br>222A         | $\mathfrak{I}$<br>223A | $\mathfrak{r}$<br>224A | $\mathfrak{r}$<br>225A | $\mathfrak{r}$<br>226A | $\mathfrak{r}$<br>227A |
| B | $\ni$<br>220B          | $\sqrt[3]{\quad}$<br>221B | $\int$<br>222B         | $\mathfrak{I}$<br>223B | $\mathfrak{r}$<br>224B | $\mathfrak{r}$<br>225B | $\mathfrak{r}$<br>226B | $\mathfrak{r}$<br>227B |
| C | $\nless$<br>220C       | $\sqrt[4]{\quad}$<br>221C | $\mathfrak{H}$<br>222C | $\mathfrak{r}$<br>223C | $\mathfrak{r}$<br>224C | $\mathfrak{r}$<br>225C | $\mathfrak{r}$<br>226C | $\mathfrak{r}$<br>227C |
| D | $\ni$<br>220D          | $\propto$<br>221D         | $\mathfrak{H}$<br>222D | $\mathfrak{r}$<br>223D | $\mathfrak{r}$<br>224D | $\mathfrak{r}$<br>225D | $\mathfrak{r}$<br>226D | $\mathfrak{r}$<br>227D |
| E | $\blacksquare$<br>220E | $\infty$<br>221E          | $\mathfrak{f}$<br>222E | $\mathfrak{r}$<br>223E | $\mathfrak{r}$<br>224E | $\mathfrak{r}$<br>225E | $\mathfrak{r}$<br>226E | $\mathfrak{r}$<br>227E |
| F | $\prod$<br>220F        | $\mathfrak{L}$<br>221F    | $\mathfrak{H}$<br>222F | $\mathfrak{r}$<br>223F | $\mathfrak{r}$<br>224F | $\mathfrak{r}$<br>225F | $\mathfrak{r}$<br>226F | $\mathfrak{r}$<br>227F |

G = 00  
P = 00

Table 65 - Row 22: Mathematical Operators

| HEX  | NAME                                        | HEX  | NAME                                   |
|------|---------------------------------------------|------|----------------------------------------|
| 2200 | FOR ALL                                     | 225D | EQUAL TO BY DEFINITION                 |
| 2201 | COMPLEMENT                                  | 225E | MEASURED BY                            |
| 2202 | PARTIAL DIFFERENTIAL                        | 225F | QUESTIONED EQUAL TO                    |
| 2203 | THERE EXISTS                                | 2260 | NOT EQUAL TO                           |
| 2204 | THERE DOES NOT EXIST                        | 2261 | IDENTICAL TO                           |
| 2205 | EMPTY SET                                   | 2262 | NOT IDENTICAL TO                       |
| 2206 | INCREMENT                                   | 2263 | STRICTLY EQUIVALENT TO                 |
| 2207 | NABLA                                       | 2264 | LESS-THAN OR EQUAL TO                  |
| 2208 | ELEMENT OF                                  | 2265 | GREATER-THAN OR EQUAL TO               |
| 2209 | NOT AN ELEMENT OF                           | 2266 | LESS-THAN OVER EQUAL TO                |
| 220A | SMALL ELEMENT OF                            | 2267 | GREATER-THAN OVER EQUAL TO             |
| 220B | CONTAINS AS MEMBER                          | 2268 | LESS-THAN BUT NOT EQUAL TO             |
| 220C | DOES NOT CONTAIN AS MEMBER                  | 2269 | GREATER-THAN BUT NOT EQUAL TO          |
| 220D | SMALL CONTAINS AS MEMBER                    | 226A | MUCH LESS-THAN                         |
| 220E | END OF PROOF                                | 226B | MUCH GREATER-THAN                      |
| 220F | N-ARY PRODUCT                               | 226C | BETWEEN                                |
| 2210 | N-ARY COPRODUCT                             | 226D | NOT EQUIVALENT TO                      |
| 2211 | N-ARY SUMMATION                             | 226E | NOT LESS-THAN                          |
| 2212 | MINUS SIGN                                  | 226F | NOT GREATER-THAN                       |
| 2213 | MINUS-OR-PLUS SIGN                          | 2270 | NEITHER LESS-THAN NOR EQUAL TO         |
| 2214 | DOT PLUS                                    | 2271 | NEITHER GREATER-THAN NOR EQUAL TO      |
| 2215 | DIVISION SLASH                              | 2272 | LESS-THAN OR EQUIVALENT TO             |
| 2216 | SET MINUS                                   | 2273 | GREATER-THAN OR EQUIVALENT TO          |
| 2217 | ASTERISK OPERATOR                           | 2274 | NEITHER LESS-THAN NOR EQUIVALENT TO    |
| 2218 | RING OPERATOR                               | 2275 | NEITHER GREATER-THAN NOR EQUIVALENT TO |
| 2219 | BULLET OPERATOR                             | 2276 | LESS-THAN OR GREATER-THAN              |
| 221A | SQUARE ROOT                                 | 2277 | GREATER-THAN OR LESS-THAN              |
| 221B | CUBE ROOT                                   | 2278 | NEITHER LESS-THAN NOR GREATER-THAN     |
| 221C | FOURTH ROOT                                 | 2279 | NEITHER GREATER-THAN NOR LESS-THAN     |
| 221D | PROPORTIONAL TO                             | 227A | PRECEDES                               |
| 221E | INFINITY                                    | 227B | SUCCEEDS                               |
| 221F | RIGHT ANGLE                                 | 227C | PRECEDES OR EQUAL TO                   |
| 2220 | ANGLE                                       | 227D | SUCCEEDS OR EQUAL TO                   |
| 2221 | MEASURED ANGLE                              | 227E | PRECEDES OR EQUIVALENT TO              |
| 2222 | SPHERICAL ANGLE                             | 227F | SUCCEEDS OR EQUIVALENT TO              |
| 2223 | DIVIDES                                     |      |                                        |
| 2224 | DOES NOT DIVIDE                             |      |                                        |
| 2225 | PARALLEL TO                                 |      |                                        |
| 2226 | NOT PARALLEL TO                             |      |                                        |
| 2227 | LOGICAL AND                                 |      |                                        |
| 2228 | LOGICAL OR                                  |      |                                        |
| 2229 | INTERSECTION                                |      |                                        |
| 222A | UNION                                       |      |                                        |
| 222B | INTEGRAL                                    |      |                                        |
| 222C | DOUBLE INTEGRAL                             |      |                                        |
| 222D | TRIPLE INTEGRAL                             |      |                                        |
| 222E | CONTOUR INTEGRAL                            |      |                                        |
| 222F | SURFACE INTEGRAL                            |      |                                        |
| 2230 | VOLUME INTEGRAL                             |      |                                        |
| 2231 | CLOCKWISE INTEGRAL                          |      |                                        |
| 2232 | CLOCKWISE CONTOUR INTEGRAL                  |      |                                        |
| 2233 | ANTICLOCKWISE CONTOUR INTEGRAL              |      |                                        |
| 2234 | THEREFORE                                   |      |                                        |
| 2235 | BECAUSE                                     |      |                                        |
| 2236 | RATIO                                       |      |                                        |
| 2237 | PROPORTION                                  |      |                                        |
| 2238 | DOT MINUS                                   |      |                                        |
| 2239 | EXCESS                                      |      |                                        |
| 223A | GEOMETRIC PROPORTION                        |      |                                        |
| 223B | HOMOTHETIC                                  |      |                                        |
| 223C | TILDE OPERATOR                              |      |                                        |
| 223D | REVERSED TILDE (lazy S)                     |      |                                        |
| 223E | INVERTED LAZY S                             |      |                                        |
| 223F | SINE WAVE                                   |      |                                        |
| 2240 | WREATH PRODUCT                              |      |                                        |
| 2241 | NOT TILDE                                   |      |                                        |
| 2242 | MINUS TILDE                                 |      |                                        |
| 2243 | ASYMPTOTICALLY EQUAL TO                     |      |                                        |
| 2244 | NOT ASYMPTOTICALLY EQUAL TO                 |      |                                        |
| 2245 | APPROXIMATELY EQUAL TO                      |      |                                        |
| 2246 | APPROXIMATELY BUT NOT ACTUALLY EQUAL TO     |      |                                        |
| 2247 | NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO |      |                                        |
| 2248 | ALMOST EQUAL TO                             |      |                                        |
| 2249 | NOT ALMOST EQUAL TO                         |      |                                        |
| 224A | ALMOST EQUAL OR EQUAL TO                    |      |                                        |
| 224B | TRIPLE TILDE                                |      |                                        |
| 224C | ALL EQUAL TO                                |      |                                        |
| 224D | EQUIVALENT TO                               |      |                                        |
| 224E | GEOMETRICALLY EQUIVALENT TO                 |      |                                        |
| 224F | DIFFERENCE BETWEEN                          |      |                                        |
| 2250 | APPROACHES THE LIMIT                        |      |                                        |
| 2251 | GEOMETRICALLY EQUAL TO                      |      |                                        |
| 2252 | APPROXIMATELY EQUAL TO OR THE IMAGE OF      |      |                                        |
| 2253 | IMAGE OF OR APPROXIMATELY EQUAL TO          |      |                                        |
| 2254 | COLON EQUALS                                |      |                                        |
| 2255 | EQUALS COLON                                |      |                                        |
| 2256 | RING IN EQUAL TO                            |      |                                        |
| 2257 | RING EQUAL TO                               |      |                                        |
| 2258 | CORRESPONDS TO                              |      |                                        |
| 2259 | ESTIMATES                                   |      |                                        |
| 225A | EQUIANGULAR TO                              |      |                                        |
| 225B | STAR EQUALS                                 |      |                                        |
| 225C | DELTA EQUAL TO                              |      |                                        |

Group 00

Plane 00

Row 22

Table 66 - Row 22: Mathematical Operators

|   | 228                                                                                         | 229                                                                                         | 22A                                                                                         | 22B                                                                                         | 22C                                                                                         | 22D                                                                                         | 22E                                                                                         | 22F                                                                                           |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 0 | <br>2280   | <br>2290   | <br>22A0   | <br>22B0   | <br>22C0   | <br>22D0   | <br>22E0   | <br>22F0   |
| 1 | <br>2281   | <br>2291   | <br>22A1   | <br>22B1   | <br>22C1   | <br>22D1   | <br>22E1   | <br>22F1   |
| 2 | <br>2282   | <br>2292   | <br>22A2   | <br>22B2   | <br>22C2   | <br>22D2   | <br>22E2   | <br>22F2   |
| 3 | <br>2283   | <br>2293   | <br>22A3   | <br>22B3   | <br>22C3   | <br>22D3   | <br>22E3   | <br>22F3   |
| 4 | <br>2284   | <br>2294   | <br>22A4   | <br>22B4   | <br>22C4   | <br>22D4   | <br>22E4   | <br>22F4   |
| 5 | <br>2285   | <br>2295   | <br>22A5   | <br>22B5   | <br>22C5   | <br>22D5   | <br>22E5   | <br>22F5   |
| 6 | <br>2286   | <br>2296   | <br>22A6   | <br>22B6   | <br>22C6   | <br>22D6   | <br>22E6   | <br>22F6   |
| 7 | <br>2287 | <br>2297 | <br>22A7 | <br>22B7 | <br>22C7 | <br>22D7 | <br>22E7 | <br>22F7 |
| 8 | <br>2288 | <br>2298 | <br>22A8 | <br>22B8 | <br>22C8 | <br>22D8 | <br>22E8 | <br>22F8 |
| 9 | <br>2289 | <br>2299 | <br>22A9 | <br>22B9 | <br>22C9 | <br>22D9 | <br>22E9 | <br>22F9 |
| A | <br>228A | <br>229A | <br>22AA | <br>22BA | <br>22CA | <br>22DA | <br>22EA | <br>22FA |
| B | <br>228B | <br>229B | <br>22AB | <br>22BB | <br>22CB | <br>22DB | <br>22EB | <br>22FB |
| C | <br>228C | <br>229C | <br>22AC | <br>22BC | <br>22CC | <br>22DC | <br>22EC | <br>22FC |
| D | <br>228D | <br>229D | <br>22AD | <br>22BD | <br>22CD | <br>22DD | <br>22ED | <br>22FD |
| E | <br>228E | <br>229E | <br>22AE | <br>22BE | <br>22CE | <br>22DE | <br>22EE | <br>22FE |
| F | <br>228F | <br>229F | <br>22AF | <br>22BF | <br>22CF | <br>22DF | <br>22EF | <br>22FF |

G = 00  
P = 00

Table 66 - Row 22: Mathematical Operators

| HEX  | NAME                                               | HEX  | NAME                                                           |
|------|----------------------------------------------------|------|----------------------------------------------------------------|
| 2280 | DOES NOT PRECEDE                                   | 22DD | EQUAL TO OR GREATER-THAN                                       |
| 2281 | DOES NOT SUCCEED                                   | 22DE | EQUAL TO OR PRECEDES                                           |
| 2282 | SUBSET OF                                          | 22DF | EQUAL TO OR SUCCEEDS                                           |
| 2283 | SUPERSET OF                                        | 22E0 | DOES NOT PRECEDE OR EQUAL                                      |
| 2284 | NOT A SUBSET OF                                    | 22E1 | DOES NOT SUCCEED OR EQUAL                                      |
| 2285 | NOT A SUPERSET OF                                  | 22E2 | NOT SQUARE IMAGE OF OR EQUAL TO                                |
| 2286 | SUBSET OF OR EQUAL TO                              | 22E3 | NOT SQUARE ORIGINAL OF OR EQUAL TO                             |
| 2287 | SUPERSET OF OR EQUAL TO                            | 22E4 | SQUARE IMAGE OF OR NOT EQUAL TO                                |
| 2288 | NEITHER A SUBSET OF NOR EQUAL TO                   | 22E5 | SQUARE ORIGINAL OF OR NOT EQUAL TO                             |
| 2289 | NEITHER A SUPERSET OF NOR EQUAL TO                 | 22E6 | LESS-THAN BUT NOT EQUIVALENT TO                                |
| 228A | SUBSET OF WITH NOT EQUAL TO                        | 22E7 | GREATER-THAN BUT NOT EQUIVALENT TO                             |
| 228B | SUPERSET OF WITH NOT EQUAL TO                      | 22E8 | PRECEDES BUT NOT EQUIVALENT TO                                 |
| 228C | MULTISET                                           | 22E9 | SUCCEEDS BUT NOT EQUIVALENT TO                                 |
| 228D | MULTISET MULTIPLICATION                            | 22EA | NOT NORMAL SUBGROUP OF                                         |
| 228E | MULTISET UNION                                     | 22EB | DOES NOT CONTAIN AS NORMAL SUBGROUP                            |
| 228F | SQUARE IMAGE OF                                    | 22EC | NOT NORMAL SUBGROUP OF OR EQUAL TO                             |
| 2290 | SQUARE ORIGINAL OF                                 | 22ED | DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL                   |
| 2291 | SQUARE IMAGE OF OR EQUAL TO                        | 22EE | VERTICAL ELLIPSIS                                              |
| 2292 | SQUARE ORIGINAL OF OR EQUAL TO                     | 22EF | MIDLINE HORIZONTAL ELLIPSIS                                    |
| 2293 | SQUARE CAP                                         | 22F0 | UP RIGHT DIAGONAL ELLIPSIS                                     |
| 2294 | SQUARE CUP                                         | 22F1 | DOWN RIGHT DIAGONAL ELLIPSIS                                   |
| 2295 | CIRCLED PLUS                                       | 22F2 | ELEMENT OF WITH LONG HORIZONTAL STROKE                         |
| 2296 | CIRCLED MINUS                                      | 22F3 | ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE       |
| 2297 | CIRCLED TIMES                                      | 22F4 | SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE |
| 2298 | CIRCLED DIVISION SLASH                             | 22F5 | ELEMENT OF WITH DOT ABOVE                                      |
| 2299 | CIRCLED DOT OPERATOR                               | 22F6 | ELEMENT OF WITH OVERBAR                                        |
| 229A | CIRCLED RING OPERATOR                              | 22F7 | SMALL ELEMENT OF WITH OVERBAR                                  |
| 229B | CIRCLED ASTERISK OPERATOR                          | 22F8 | ELEMENT OF WITH UNDERBAR                                       |
| 229C | CIRCLED EQUALS                                     | 22F9 | ELEMENT OF WITH TWO HORIZONTAL STROKES                         |
| 229D | CIRCLED DASH                                       | 22FA | CONTAINS WITH LONG HORIZONTAL STROKE                           |
| 229E | SQUARED PLUS                                       | 22FB | CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE         |
| 229F | SQUARED MINUS                                      | 22FC | SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE   |
| 22A0 | SQUARED TIMES                                      | 22FD | CONTAINS WITH OVERBAR                                          |
| 22A1 | SQUARED DOT OPERATOR                               | 22FE | SMALL CONTAINS WITH OVERBAR                                    |
| 22A2 | RIGHT TACK                                         | 22FF | Z NOTATION BAG MEMBERSHIP                                      |
| 22A3 | LEFT TACK                                          |      |                                                                |
| 22A4 | DOWN TACK                                          |      |                                                                |
| 22A5 | UP TACK                                            |      |                                                                |
| 22A6 | ASSERTION                                          |      |                                                                |
| 22A7 | MODELS                                             |      |                                                                |
| 22A8 | TRUE                                               |      |                                                                |
| 22A9 | FORCES                                             |      |                                                                |
| 22AA | TRIPLE VERTICAL BAR RIGHT TURNSTILE                |      |                                                                |
| 22AB | DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE         |      |                                                                |
| 22AC | DOES NOT PROVE                                     |      |                                                                |
| 22AD | NOT TRUE                                           |      |                                                                |
| 22AE | DOES NOT FORCE                                     |      |                                                                |
| 22AF | NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE |      |                                                                |
| 22B0 | PRECEDES UNDER RELATION                            |      |                                                                |
| 22B1 | SUCCEEDS UNDER RELATION                            |      |                                                                |
| 22B2 | NORMAL SUBGROUP OF                                 |      |                                                                |
| 22B3 | CONTAINS AS NORMAL SUBGROUP                        |      |                                                                |
| 22B4 | NORMAL SUBGROUP OF OR EQUAL TO                     |      |                                                                |
| 22B5 | CONTAINS AS NORMAL SUBGROUP OR EQUAL TO            |      |                                                                |
| 22B6 | ORIGINAL OF                                        |      |                                                                |
| 22B7 | IMAGE OF                                           |      |                                                                |
| 22B8 | MULTIMAP                                           |      |                                                                |
| 22B9 | HERMITIAN CONJUGATE MATRIX                         |      |                                                                |
| 22BA | INTERCALATE                                        |      |                                                                |
| 22BB | XOR                                                |      |                                                                |
| 22BC | NAND                                               |      |                                                                |
| 22BD | NOR                                                |      |                                                                |
| 22BE | RIGHT ANGLE WITH ARC                               |      |                                                                |
| 22BF | RIGHT TRIANGLE                                     |      |                                                                |
| 22C0 | N-ARY LOGICAL AND                                  |      |                                                                |
| 22C1 | N-ARY LOGICAL OR                                   |      |                                                                |
| 22C2 | N-ARY INTERSECTION                                 |      |                                                                |
| 22C3 | N-ARY UNION                                        |      |                                                                |
| 22C4 | DIAMOND OPERATOR                                   |      |                                                                |
| 22C5 | DOT OPERATOR                                       |      |                                                                |
| 22C6 | STAR OPERATOR                                      |      |                                                                |
| 22C7 | DIVISION TIMES                                     |      |                                                                |
| 22C8 | BOWTIE                                             |      |                                                                |
| 22C9 | LEFT NORMAL FACTOR SEMIDIRECT PRODUCT              |      |                                                                |
| 22CA | RIGHT NORMAL FACTOR SEMIDIRECT PRODUCT             |      |                                                                |
| 22CB | LEFT SEMIDIRECT PRODUCT                            |      |                                                                |
| 22CC | RIGHT SEMIDIRECT PRODUCT                           |      |                                                                |
| 22CD | REVERSED TILDE EQUALS                              |      |                                                                |
| 22CE | CURLY LOGICAL OR                                   |      |                                                                |
| 22CF | CURLY LOGICAL AND                                  |      |                                                                |
| 22D0 | DOUBLE SUBSET                                      |      |                                                                |
| 22D1 | DOUBLE SUPERSET                                    |      |                                                                |
| 22D2 | DOUBLE INTERSECTION                                |      |                                                                |
| 22D3 | DOUBLE UNION                                       |      |                                                                |
| 22D4 | PITCHFORK                                          |      |                                                                |
| 22D5 | EQUAL AND PARALLEL TO                              |      |                                                                |
| 22D6 | LESS-THAN WITH DOT                                 |      |                                                                |
| 22D7 | GREATER-THAN WITH DOT                              |      |                                                                |
| 22D8 | VERY MUCH LESS-THAN                                |      |                                                                |
| 22D9 | VERY MUCH GREATER-THAN                             |      |                                                                |
| 22DA | LESS-THAN EQUAL TO OR GREATER-THAN                 |      |                                                                |
| 22DB | GREATER-THAN EQUAL TO OR LESS-THAN                 |      |                                                                |
| 22DC | EQUAL TO OR LESS-THAN                              |      |                                                                |

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Row 22

**Table 67 - Row 23: Miscellaneous Technical**

|   | 230                                                                                         | 231                                                                                         | 232                                                                                         | 233                                                                                         | 234                                                                                         | 235                                                                                         | 236                                                                                         | 237                                                                                           |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 0 | <br>2300   | <br>2310   | <br>2320   | <br>2330   | <br>2340   | <br>2350   | <br>2360   | <br>2370   |
| 1 | <br>2301   | <br>2311   | <br>2321   | <br>2331   | <br>2341   | <br>2351   | <br>2361   | <br>2371   |
| 2 | <br>2302   | <br>2312   | <br>2322   | <br>2332   | <br>2342   | <br>2352   | <br>2362   | <br>2372   |
| 3 | <br>2303   | <br>2313   | <br>2323   | <br>2333   | <br>2343   | <br>2353   | <br>2363   | <br>2373   |
| 4 | <br>2304   | <br>2314   | <br>2324   | <br>2334   | <br>2344   | <br>2354   | <br>2364   | <br>2374   |
| 5 | <br>2305   | <br>2315   | <br>2325   | <br>2335   | <br>2345   | <br>2355   | <br>2365   | <br>2375   |
| 6 | <br>2306   | <br>2316   | <br>2326   | <br>2336   | <br>2346   | <br>2356   | <br>2366   | <br>2376   |
| 7 | <br>2307  | <br>2317  | <br>2327  | <br>2337  | <br>2347  | <br>2357  | <br>2367  | <br>2377  |
| 8 | <br>2308 | <br>2318 | <br>2328 | <br>2338 | <br>2348 | <br>2358 | <br>2368 | <br>2378 |
| 9 | <br>2309 | <br>2319 | <br>2329 | <br>2339 | <br>2349 | <br>2359 | <br>2369 | <br>2379 |
| A | <br>230A | <br>231A | <br>232A | <br>233A | <br>234A | <br>235A | <br>236A | <br>237A |
| B | <br>230B | <br>231B | <br>232B | <br>233B | <br>234B | <br>235B | <br>236B | <br>237B |
| C | <br>230C | <br>231C | <br>232C | <br>233C | <br>234C | <br>235C | <br>236C | <br>237C |
| D | <br>230D | <br>231D | <br>232D | <br>233D | <br>234D | <br>235D | <br>236D | <br>237D |
| E | <br>230E | <br>231E | <br>232E | <br>233E | <br>234E | <br>235E | <br>236E | <br>237E |
| F | <br>230F | <br>231F | <br>232F | <br>233F | <br>234F | <br>235F | <br>236F | <br>237F |

G = 00  
P = 00

Table 67 - Row 23: Miscellaneous Technical

| HEX  | NAME                                        | HEX  | NAME                                         |
|------|---------------------------------------------|------|----------------------------------------------|
| 2300 | DIAMETER SIGN                               | 235D | APL FUNCTIONAL SYMBOL UP SHOE JOT            |
| 2301 | ELECTRIC ARROW                              | 235E | APL FUNCTIONAL SYMBOL QUOTE QUAD             |
| 2302 | HOUSE                                       | 235F | APL FUNCTIONAL SYMBOL CIRCLE STAR            |
| 2303 | UP ARROWHEAD                                | 2360 | APL FUNCTIONAL SYMBOL QUAD COLON             |
| 2304 | DOWN ARROWHEAD                              | 2361 | APL FUNCTIONAL SYMBOL UP TACK DIAERESIS *    |
| 2305 | PROJECTIVE                                  | 2362 | APL FUNCTIONAL SYMBOL DEL DIAERESIS          |
| 2306 | PERSPECTIVE                                 | 2363 | APL FUNCTIONAL SYMBOL STAR DIAERESIS         |
| 2307 | WAVY LINE                                   | 2364 | APL FUNCTIONAL SYMBOL JOT DIAERESIS          |
| 2308 | LEFT CEILING                                | 2365 | APL FUNCTIONAL SYMBOL CIRCLE DIAERESIS       |
| 2309 | RIGHT CEILING                               | 2366 | APL FUNCTIONAL SYMBOL DOWN SHOE STILE        |
| 230A | LEFT FLOOR                                  | 2367 | APL FUNCTIONAL SYMBOL LEFT SHOE STILE        |
| 230B | RIGHT FLOOR                                 | 2368 | APL FUNCTIONAL SYMBOL TILDE DIAERESIS        |
| 230C | BOTTOM RIGHT CROP                           | 2369 | APL FUNCTIONAL SYMBOL GREATER-THAN DIAERESIS |
| 230D | BOTTOM LEFT CROP                            | 236A | APL FUNCTIONAL SYMBOL COMMA BAR              |
| 230E | TOP RIGHT CROP                              | 236B | APL FUNCTIONAL SYMBOL DEL TILDE              |
| 230F | TOP LEFT CROP                               | 236C | APL FUNCTIONAL SYMBOL ZILDE                  |
| 2310 | REVERSED NOT SIGN                           | 236D | APL FUNCTIONAL SYMBOL STILE TILDE            |
| 2311 | SQUARE LOZENGE                              | 236E | APL FUNCTIONAL SYMBOL SEMICOLON UNDERBAR     |
| 2312 | ARC                                         | 236F | APL FUNCTIONAL SYMBOL QUAD NOT EQUAL         |
| 2313 | SEGMENT                                     | 2370 | APL FUNCTIONAL SYMBOL QUAD QUESTION          |
| 2314 | SECTOR                                      | 2371 | APL FUNCTIONAL SYMBOL DOWN CARET TILDE       |
| 2315 | TELEPHONE RECORDER                          | 2372 | APL FUNCTIONAL SYMBOL UP CARET TILDE         |
| 2316 | POSITION INDICATOR                          | 2373 | APL FUNCTIONAL SYMBOL IOTA                   |
| 2317 | VIEWDATA SQUARE                             | 2374 | APL FUNCTIONAL SYMBOL RHO                    |
| 2318 | PLACE OF INTEREST SIGN                      | 2375 | APL FUNCTIONAL SYMBOL OMEGA                  |
| 2319 | TURNED NOT SIGN                             | 2376 | APL FUNCTIONAL SYMBOL ALPHA UNDERBAR         |
| 231A | WATCH                                       | 2377 | APL FUNCTIONAL SYMBOL EPSILON UNDERBAR       |
| 231B | HOURLASS                                    | 2378 | APL FUNCTIONAL SYMBOL IOTA UNDERBAR          |
| 231C | TOP LEFT CORNER                             | 2379 | APL FUNCTIONAL SYMBOL OMEGA UNDERBAR         |
| 231D | TOP RIGHT CORNER                            | 237A | APL FUNCTIONAL SYMBOL ALPHA                  |
| 231E | BOTTOM LEFT CORNER                          | 237B | NOT CHECK MARK                               |
| 231F | BOTTOM RIGHT CORNER                         | 237C | RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW      |
| 2320 | TOP HALF INTEGRAL                           | 237D | SHOULDERED OPEN BOX                          |
| 2321 | BOTTOM HALF INTEGRAL                        | 237E | BELL SYMBOL                                  |
| 2322 | FROWN                                       | 237F | VERTICAL LINE WITH MIDDLE DOT                |
| 2323 | SMILE                                       |      |                                              |
| 2324 | UP ARROWHEAD BETWEEN TWO HORIZONTAL BARS    |      |                                              |
| 2325 | OPTION KEY                                  |      |                                              |
| 2326 | ERASE TO THE RIGHT                          |      |                                              |
| 2327 | X IN A RECTANGLE BOX                        |      |                                              |
| 2328 | KEYBOARD                                    |      |                                              |
| 2329 | LEFT-POINTING ANGLE BRACKET                 |      |                                              |
| 232A | RIGHT-POINTING ANGLE BRACKET                |      |                                              |
| 232B | ERASE TO THE LEFT                           |      |                                              |
| 232C | BENZENE RING                                |      |                                              |
| 232D | CYLINDRICITY                                |      |                                              |
| 232E | ALL AROUND-PROFILE                          |      |                                              |
| 232F | SYMMETRY                                    |      |                                              |
| 2330 | TOTAL RUNOUT                                |      |                                              |
| 2331 | DIMENSION ORIGIN                            |      |                                              |
| 2332 | CONICAL TAPER                               |      |                                              |
| 2333 | SLOPE                                       |      |                                              |
| 2334 | COUNTERBORE                                 |      |                                              |
| 2335 | COUNTERSINK                                 |      |                                              |
| 2336 | APL FUNCTIONAL SYMBOL I-BEAM                |      |                                              |
| 2337 | APL FUNCTIONAL SYMBOL SQUISH QUAD           |      |                                              |
| 2338 | APL FUNCTIONAL SYMBOL QUAD EQUAL            |      |                                              |
| 2339 | APL FUNCTIONAL SYMBOL QUAD DIVIDE           |      |                                              |
| 233A | APL FUNCTIONAL SYMBOL QUAD DIAMOND          |      |                                              |
| 233B | APL FUNCTIONAL SYMBOL QUAD JOT              |      |                                              |
| 233C | APL FUNCTIONAL SYMBOL QUAD CIRCLE           |      |                                              |
| 233D | APL FUNCTIONAL SYMBOL CIRCLE STILE          |      |                                              |
| 233E | APL FUNCTIONAL SYMBOL CIRCLE JOT            |      |                                              |
| 233F | APL FUNCTIONAL SYMBOL SLASH BAR             |      |                                              |
| 2340 | APL FUNCTIONAL SYMBOL BACKSLASH BAR         |      |                                              |
| 2341 | APL FUNCTIONAL SYMBOL QUAD SLASH            |      |                                              |
| 2342 | APL FUNCTIONAL SYMBOL QUAD BACKSLASH        |      |                                              |
| 2343 | APL FUNCTIONAL SYMBOL QUAD LESS-THAN        |      |                                              |
| 2344 | APL FUNCTIONAL SYMBOL QUAD GREATER-THAN     |      |                                              |
| 2345 | APL FUNCTIONAL SYMBOL LEFTWARDS VANE        |      |                                              |
| 2346 | APL FUNCTIONAL SYMBOL RIGHTWARDS VANE       |      |                                              |
| 2347 | APL FUNCTIONAL SYMBOL QUAD LEFTWARDS ARROW  |      |                                              |
| 2348 | APL FUNCTIONAL SYMBOL QUAD RIGHTWARDS ARROW |      |                                              |
| 2349 | APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH      |      |                                              |
| 234A | APL FUNCTIONAL SYMBOL DOWN TACK UNDERBAR *  |      |                                              |
| 234B | APL FUNCTIONAL SYMBOL DELTA STILE           |      |                                              |
| 234C | APL FUNCTIONAL SYMBOL QUAD DOWN CARET       |      |                                              |
| 234D | APL FUNCTIONAL SYMBOL QUAD DELTA            |      |                                              |
| 234E | APL FUNCTIONAL SYMBOL DOWN TACK JOT *       |      |                                              |
| 234F | APL FUNCTIONAL SYMBOL UPWARDS VANE          |      |                                              |
| 2350 | APL FUNCTIONAL SYMBOL QUAD UPWARDS ARROW    |      |                                              |
| 2351 | APL FUNCTIONAL SYMBOL UP TACK OVERBAR *     |      |                                              |
| 2352 | APL FUNCTIONAL SYMBOL DEL STILE             |      |                                              |
| 2353 | APL FUNCTIONAL SYMBOL QUAD UP CARET         |      |                                              |
| 2354 | APL FUNCTIONAL SYMBOL QUAD DEL              |      |                                              |
| 2355 | APL FUNCTIONAL SYMBOL UP TACK JOT *         |      |                                              |
| 2356 | APL FUNCTIONAL SYMBOL DOWNWARDS VANE        |      |                                              |
| 2357 | APL FUNCTIONAL SYMBOL QUAD DOWNWARDS ARROW  |      |                                              |
| 2358 | APL FUNCTIONAL SYMBOL QUOTE UNDERBAR        |      |                                              |
| 2359 | APL FUNCTIONAL SYMBOL DELTA UNDERBAR        |      |                                              |
| 235A | APL FUNCTIONAL SYMBOL DIAMOND UNDERBAR      |      |                                              |
| 235B | APL FUNCTIONAL SYMBOL JOT UNDERBAR          |      |                                              |
| 235C | APL FUNCTIONAL SYMBOL CIRCLE UNDERBAR       |      |                                              |

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Row 23

**Table 68 - Row 23: Miscellaneous Technical**

|   | 238                                                                                         | 239                                                                                         | 23A                                                                                         | 23B                                                                                         | 23C                                                                                         | 23D | 23E | 23F |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|-----|-----|
| 0 | <br>2380   | <br>2390   | <br>23A0   | <br>23B0   | <br>23C0   |     |     |     |
| 1 | <br>2381   | <br>2391   | <br>23A1   | <br>23B1   | <br>23C1   |     |     |     |
| 2 | <br>2382   | <br>2392   | <br>23A2   | <br>23B2   | <br>23C2   |     |     |     |
| 3 | <br>2383   | <br>2393   | <br>23A3   | <br>23B3   | <br>23C3   |     |     |     |
| 4 | <br>2384   | <br>2394   | <br>23A4   | <br>23B4   | <br>23C4   |     |     |     |
| 5 | <br>2385   | <br>2395   | <br>23A5   | <br>23B5   | <br>23C5   |     |     |     |
| 6 | <br>2386  | <br>2396  | <br>23A6  | <br>23B6  | <br>23C6  |     |     |     |
| 7 | <br>2387 | <br>2397 | <br>23A7 | <br>23B7 | <br>23C7 |     |     |     |
| 8 | <br>2388 | <br>2398 | <br>23A8 | <br>23B8 | <br>23C8 |     |     |     |
| 9 | <br>2389 | <br>2399 | <br>23A9 | <br>23B9 | <br>23C9 |     |     |     |
| A | <br>238A | <br>239A | <br>23AA | <br>23BA | <br>23CA |     |     |     |
| B | <br>238B | <br>239B | <br>23AB | <br>23BB | <br>23CB |     |     |     |
| C | <br>238C | <br>239C | <br>23AC | <br>23BC | <br>23CC |     |     |     |
| D | <br>238D | <br>239D | <br>23AD | <br>23BD | <br>23CD |     |     |     |
| E | <br>238E | <br>239E | <br>23AE | <br>23BE | <br>23CE |     |     |     |
| F | <br>238F | <br>239F | <br>23AF | <br>23BF |                                                                                             |     |     |     |

G = 00  
P = 00

Table 68 - Row 23: Miscellaneous Technical

| HEX  | NAME                                                     | HEX  | NAME                              |
|------|----------------------------------------------------------|------|-----------------------------------|
| 2380 | INSERTION SYMBOL                                         | 23DD | (This position shall not be used) |
| 2381 | CONTINUOUS UNDERLINE SYMBOL                              | 23DE | (This position shall not be used) |
| 2382 | DISCONTINUOUS UNDERLINE SYMBOL                           | 23DF | (This position shall not be used) |
| 2383 | EMPHASIS SYMBOL                                          | 23E0 | (This position shall not be used) |
| 2384 | COMPOSITION SYMBOL                                       | 23E1 | (This position shall not be used) |
| 2385 | WHITE SQUARE WITH CENTRE VERTICAL LINE                   | 23E2 | (This position shall not be used) |
| 2386 | ENTER SYMBOL                                             | 23E3 | (This position shall not be used) |
| 2387 | ALTERNATIVE KEY SYMBOL                                   | 23E4 | (This position shall not be used) |
| 2388 | HELM SYMBOL                                              | 23E5 | (This position shall not be used) |
| 2389 | CIRCLED HORIZONTAL BAR WITH NOTCH (pause)                | 23E6 | (This position shall not be used) |
| 238A | CIRCLED TRIANGLE DOWN (break)                            | 23E7 | (This position shall not be used) |
| 238B | BROKEN CIRCLE WITH NORTHWEST ARROW (escape)              | 23E8 | (This position shall not be used) |
| 238C | UNDO SYMBOL                                              | 23E9 | (This position shall not be used) |
| 238D | MONOSTABLE SYMBOL                                        | 23EA | (This position shall not be used) |
| 238E | HYSTERESIS SYMBOL                                        | 23EB | (This position shall not be used) |
| 238F | OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL                        | 23EC | (This position shall not be used) |
| 2390 | OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL                        | 23ED | (This position shall not be used) |
| 2391 | PASSIVE-PULL-DOWN-OUTPUT SYMBOL                          | 23EE | (This position shall not be used) |
| 2392 | PASSIVE-PULL-UP-OUTPUT SYMBOL                            | 23EF | (This position shall not be used) |
| 2393 | DIRECT CURRENT SYMBOL FORM TWO                           | 23F0 | (This position shall not be used) |
| 2394 | SOFTWARE-FUNCTION SYMBOL                                 | 23F1 | (This position shall not be used) |
| 2395 | APL FUNCTIONAL SYMBOL QUAD                               | 23F2 | (This position shall not be used) |
| 2396 | DECIMAL SEPARATOR KEY SYMBOL                             | 23F3 | (This position shall not be used) |
| 2397 | PREVIOUS PAGE                                            | 23F4 | (This position shall not be used) |
| 2398 | NEXT PAGE                                                | 23F5 | (This position shall not be used) |
| 2399 | PRINT SCREEN SYMBOL                                      | 23F6 | (This position shall not be used) |
| 239A | CLEAR SCREEN SYMBOL                                      | 23F7 | (This position shall not be used) |
| 239B | LEFT PARENTHESIS UPPER HOOK                              | 23F8 | (This position shall not be used) |
| 239C | LEFT PARENTHESIS EXTENSION                               | 23F9 | (This position shall not be used) |
| 239D | LEFT PARENTHESIS LOWER HOOK                              | 23FA | (This position shall not be used) |
| 239E | RIGHT PARENTHESIS UPPER HOOK                             | 23FB | (This position shall not be used) |
| 239F | RIGHT PARENTHESIS EXTENSION                              | 23FC | (This position shall not be used) |
| 23A0 | RIGHT PARENTHESIS LOWER HOOK                             | 23FD | (This position shall not be used) |
| 23A1 | LEFT SQUARE BRACKET UPPER CORNER                         | 23FE | (This position shall not be used) |
| 23A2 | LEFT SQUARE BRACKET EXTENSION                            | 23FF | (This position shall not be used) |
| 23A3 | LEFT SQUARE BRACKET LOWER CORNER                         |      |                                   |
| 23A4 | RIGHT SQUARE BRACKET UPPER CORNER                        |      |                                   |
| 23A5 | RIGHT SQUARE BRACKET EXTENSION                           |      |                                   |
| 23A6 | RIGHT SQUARE BRACKET LOWER CORNER                        |      |                                   |
| 23A7 | LEFT CURLY BRACKET UPPER HOOK                            |      |                                   |
| 23A8 | LEFT CURLY BRACKET MIDDLE PIECE                          |      |                                   |
| 23A9 | LEFT CURLY BRACKET LOWER HOOK                            |      |                                   |
| 23AA | CURLY BRACKET EXTENSION                                  |      |                                   |
| 23AB | RIGHT CURLY BRACKET UPPER HOOK                           |      |                                   |
| 23AC | RIGHT CURLY BRACKET MIDDLE PIECE                         |      |                                   |
| 23AD | RIGHT CURLY BRACKET LOWER HOOK                           |      |                                   |
| 23AE | INTEGRAL EXTENSION                                       |      |                                   |
| 23AF | HORIZONTAL LINE EXTENSION                                |      |                                   |
| 23B0 | UPPER LEFT OR LOWER RIGHT CURLY BRACKET SECTION          |      |                                   |
| 23B1 | UPPER RIGHT OR LOWER LEFT CURLY BRACKET SECTION          |      |                                   |
| 23B2 | SUMMATION TOP                                            |      |                                   |
| 23B3 | SUMMATION BOTTOM                                         |      |                                   |
| 23B4 | TOP SQUARE BRACKET                                       |      |                                   |
| 23B5 | BOTTOM SQUARE BRACKET                                    |      |                                   |
| 23B6 | BOTTOM SQUARE BRACKET OVER TOP SQUARE BRACKET            |      |                                   |
| 23B7 | RADICAL SYMBOL BOTTOM                                    |      |                                   |
| 23B8 | LEFT VERTICAL BOX LINE                                   |      |                                   |
| 23B9 | RIGHT VERTICAL BOX LINE                                  |      |                                   |
| 23BA | HORIZONTAL SCAN LINE-1                                   |      |                                   |
| 23BB | HORIZONTAL SCAN LINE-3                                   |      |                                   |
| 23BC | HORIZONTAL SCAN LINE-7                                   |      |                                   |
| 23BD | HORIZONTAL SCAN LINE-9                                   |      |                                   |
| 23BE | DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT            |      |                                   |
| 23BF | DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT         |      |                                   |
| 23C0 | DENTISTRY SYMBOL LIGHT VERTICAL WITH CIRCLE              |      |                                   |
| 23C1 | DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH CIRCLE   |      |                                   |
| 23C2 | DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH CIRCLE     |      |                                   |
| 23C3 | DENTISTRY SYMBOL LIGHT VERTICAL WITH TRIANGLE            |      |                                   |
| 23C4 | DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH TRIANGLE |      |                                   |
| 23C5 | DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH TRIANGLE   |      |                                   |
| 23C6 | DENTISTRY SYMBOL LIGHT VERTICAL AND WAVE                 |      |                                   |
| 23C7 | DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH WAVE     |      |                                   |
| 23C8 | DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH WAVE       |      |                                   |
| 23C9 | DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL               |      |                                   |
| 23CA | DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL                 |      |                                   |
| 23CB | DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT             |      |                                   |
| 23CC | DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT          |      |                                   |
| 23CD | SQUARE FOOT                                              |      |                                   |
| 23CE | RETURN SYMBOL                                            |      |                                   |
| 23CF | (This position shall not be used)                        |      |                                   |
| 23D0 | (This position shall not be used)                        |      |                                   |
| 23D1 | (This position shall not be used)                        |      |                                   |
| 23D2 | (This position shall not be used)                        |      |                                   |
| 23D3 | (This position shall not be used)                        |      |                                   |
| 23D4 | (This position shall not be used)                        |      |                                   |
| 23D5 | (This position shall not be used)                        |      |                                   |
| 23D6 | (This position shall not be used)                        |      |                                   |
| 23D7 | (This position shall not be used)                        |      |                                   |
| 23D8 | (This position shall not be used)                        |      |                                   |
| 23D9 | (This position shall not be used)                        |      |                                   |
| 23DA | (This position shall not be used)                        |      |                                   |
| 23DB | (This position shall not be used)                        |      |                                   |
| 23DC | (This position shall not be used)                        |      |                                   |

Group 00

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Row 23

**Table 71 - Row 24: Enclosed Alphanumerics**

|   | 246       | 247          | 248          | 249         | 24A         | 24B         | 24C       | 24D       | 24E       | 24F       |
|---|-----------|--------------|--------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|
| 0 | ①<br>2460 | ⑰<br>2470    | (13)<br>2480 | 9.<br>2490  | (e)<br>24A0 | (u)<br>24B0 | Ⓚ<br>24C0 | ⓐ<br>24D0 | Ⓚ<br>24E0 | ⑱<br>24F0 |
| 1 | ②<br>2461 | ⑱<br>2471    | (14)<br>2481 | 10.<br>2491 | (f)<br>24A1 | (v)<br>24B1 | Ⓛ<br>24C1 | ⓑ<br>24D1 | Ⓡ<br>24E1 | ⑳<br>24F1 |
| 2 | ③<br>2462 | ⑲<br>2472    | (15)<br>2482 | 11.<br>2492 | (g)<br>24A2 | (w)<br>24B2 | Ⓜ<br>24C2 | ⓒ<br>24D2 | Ⓢ<br>24E2 | ㉑<br>24F2 |
| 3 | ④<br>2463 | ㉒<br>2473    | (16)<br>2483 | 12.<br>2493 | (h)<br>24A3 | (x)<br>24B3 | Ⓝ<br>24C3 | ⓓ<br>24D3 | Ⓣ<br>24E3 | ㉓<br>24F3 |
| 4 | ⑤<br>2464 | (1)<br>2474  | (17)<br>2484 | 13.<br>2494 | (i)<br>24A4 | (y)<br>24B4 | Ⓞ<br>24C4 | ⓔ<br>24D4 | Ⓤ<br>24E4 | ㉔<br>24F4 |
| 5 | ⑥<br>2465 | (2)<br>2475  | (18)<br>2485 | 14.<br>2495 | (j)<br>24A5 | (z)<br>24B5 | Ⓟ<br>24C5 | ⓕ<br>24D5 | Ⓡ<br>24E5 | ①<br>24F5 |
| 6 | ⑦<br>2466 | (3)<br>2476  | (19)<br>2486 | 15.<br>2496 | (k)<br>24A6 | Ⓐ<br>24B6   | Ⓠ<br>24C6 | ⓖ<br>24D6 | Ⓢ<br>24E6 | ②<br>24F6 |
| 7 | ⑧<br>2467 | (4)<br>2477  | (20)<br>2487 | 16.<br>2497 | (l)<br>24A7 | Ⓑ<br>24B7   | Ⓡ<br>24C7 | ⓗ<br>24D7 | Ⓣ<br>24E7 | ③<br>24F7 |
| 8 | ⑨<br>2468 | (5)<br>2478  | 1.<br>2488   | 17.<br>2498 | (m)<br>24A8 | Ⓒ<br>24B8   | Ⓢ<br>24C8 | Ⓤ<br>24D8 | Ⓡ<br>24E8 | ④<br>24F8 |
| 9 | ⑩<br>2469 | (6)<br>2479  | 2.<br>2489   | 18.<br>2499 | (n)<br>24A9 | Ⓓ<br>24B9   | Ⓣ<br>24C9 | Ⓤ<br>24D9 | Ⓡ<br>24E9 | ⑤<br>24F9 |
| A | Ⓘ<br>246A | (7)<br>247A  | 3.<br>248A   | 19.<br>249A | (o)<br>24AA | Ⓔ<br>24BA   | Ⓡ<br>24CA | Ⓚ<br>24DA | Ⓚ<br>24EA | ⑥<br>24FA |
| B | ⑫<br>246B | (8)<br>247B  | 4.<br>248B   | 20.<br>249B | (p)<br>24AB | Ⓕ<br>24BB   | Ⓡ<br>24CB | ①<br>24DB | ㉕<br>24EB | ⑦<br>24FB |
| C | ⑬<br>246C | (9)<br>247C  | 5.<br>248C   | (a)<br>249C | (q)<br>24AC | Ⓖ<br>24BC   | Ⓢ<br>24CC | Ⓜ<br>24DC | ㉖<br>24EC | ⑧<br>24FC |
| D | ⑭<br>246D | (10)<br>247D | 6.<br>248D   | (b)<br>249D | (r)<br>24AD | Ⓗ<br>24BD   | Ⓧ<br>24CD | Ⓝ<br>24DD | ㉗<br>24ED | ⑨<br>24FD |
| E | ⑮<br>246E | (11)<br>247E | 7.<br>248E   | (c)<br>249E | (s)<br>24AE | Ⓘ<br>24BE   | Ⓡ<br>24CE | Ⓚ<br>24DE | ㉘<br>24EE | ⑩<br>24FE |
| F | ⑯<br>246F | (12)<br>247F | 8.<br>248F   | (d)<br>249F | (t)<br>24AF | Ⓙ<br>24BF   | Ⓢ<br>24CF | Ⓟ<br>24DF | ㉙<br>24EF |           |

G = 00  
P = 00

Table 71 - Row 24: Enclosed Alphanumerics

| HEX  | NAME                               | HEX  | NAME                              |
|------|------------------------------------|------|-----------------------------------|
| 2460 | CIRCLED DIGIT ONE                  | 24BD | CIRCLED LATIN CAPITAL LETTER H    |
| 2461 | CIRCLED DIGIT TWO                  | 24BE | CIRCLED LATIN CAPITAL LETTER I    |
| 2462 | CIRCLED DIGIT THREE                | 24BF | CIRCLED LATIN CAPITAL LETTER J    |
| 2463 | CIRCLED DIGIT FOUR                 | 24C0 | CIRCLED LATIN CAPITAL LETTER K    |
| 2464 | CIRCLED DIGIT FIVE                 | 24C1 | CIRCLED LATIN CAPITAL LETTER L    |
| 2465 | CIRCLED DIGIT SIX                  | 24C2 | CIRCLED LATIN CAPITAL LETTER M    |
| 2466 | CIRCLED DIGIT SEVEN                | 24C3 | CIRCLED LATIN CAPITAL LETTER N    |
| 2467 | CIRCLED DIGIT EIGHT                | 24C4 | CIRCLED LATIN CAPITAL LETTER O    |
| 2468 | CIRCLED DIGIT NINE                 | 24C5 | CIRCLED LATIN CAPITAL LETTER P    |
| 2469 | CIRCLED NUMBER TEN                 | 24C6 | CIRCLED LATIN CAPITAL LETTER Q    |
| 246A | CIRCLED NUMBER ELEVEN              | 24C7 | CIRCLED LATIN CAPITAL LETTER R    |
| 246B | CIRCLED NUMBER TWELVE              | 24C8 | CIRCLED LATIN CAPITAL LETTER S    |
| 246C | CIRCLED NUMBER THIRTEEN            | 24C9 | CIRCLED LATIN CAPITAL LETTER T    |
| 246D | CIRCLED NUMBER FOURTEEN            | 24CA | CIRCLED LATIN CAPITAL LETTER U    |
| 246E | CIRCLED NUMBER FIFTEEN             | 24CB | CIRCLED LATIN CAPITAL LETTER V    |
| 246F | CIRCLED NUMBER SIXTEEN             | 24CC | CIRCLED LATIN CAPITAL LETTER W    |
| 2470 | CIRCLED NUMBER SEVENTEEN           | 24CD | CIRCLED LATIN CAPITAL LETTER X    |
| 2471 | CIRCLED NUMBER EIGHTEEN            | 24CE | CIRCLED LATIN CAPITAL LETTER Y    |
| 2472 | CIRCLED NUMBER NINETEEN            | 24CF | CIRCLED LATIN CAPITAL LETTER Z    |
| 2473 | CIRCLED NUMBER TWENTY              | 24D0 | CIRCLED LATIN SMALL LETTER A      |
| 2474 | PARENTHESIZED DIGIT ONE            | 24D1 | CIRCLED LATIN SMALL LETTER B      |
| 2475 | PARENTHESIZED DIGIT TWO            | 24D2 | CIRCLED LATIN SMALL LETTER C      |
| 2476 | PARENTHESIZED DIGIT THREE          | 24D3 | CIRCLED LATIN SMALL LETTER D      |
| 2477 | PARENTHESIZED DIGIT FOUR           | 24D4 | CIRCLED LATIN SMALL LETTER E      |
| 2478 | PARENTHESIZED DIGIT FIVE           | 24D5 | CIRCLED LATIN SMALL LETTER F      |
| 2479 | PARENTHESIZED DIGIT SIX            | 24D6 | CIRCLED LATIN SMALL LETTER G      |
| 247A | PARENTHESIZED DIGIT SEVEN          | 24D7 | CIRCLED LATIN SMALL LETTER H      |
| 247B | PARENTHESIZED DIGIT EIGHT          | 24D8 | CIRCLED LATIN SMALL LETTER I      |
| 247C | PARENTHESIZED DIGIT NINE           | 24D9 | CIRCLED LATIN SMALL LETTER J      |
| 247D | PARENTHESIZED NUMBER TEN           | 24DA | CIRCLED LATIN SMALL LETTER K      |
| 247E | PARENTHESIZED NUMBER ELEVEN        | 24DB | CIRCLED LATIN SMALL LETTER L      |
| 247F | PARENTHESIZED NUMBER TWELVE        | 24DC | CIRCLED LATIN SMALL LETTER M      |
| 2480 | PARENTHESIZED NUMBER THIRTEEN      | 24DD | CIRCLED LATIN SMALL LETTER N      |
| 2481 | PARENTHESIZED NUMBER FOURTEEN      | 24DE | CIRCLED LATIN SMALL LETTER O      |
| 2482 | PARENTHESIZED NUMBER FIFTEEN       | 24DF | CIRCLED LATIN SMALL LETTER P      |
| 2483 | PARENTHESIZED NUMBER SIXTEEN       | 24E0 | CIRCLED LATIN SMALL LETTER Q      |
| 2484 | PARENTHESIZED NUMBER SEVENTEEN     | 24E1 | CIRCLED LATIN SMALL LETTER R      |
| 2485 | PARENTHESIZED NUMBER EIGHTEEN      | 24E2 | CIRCLED LATIN SMALL LETTER S      |
| 2486 | PARENTHESIZED NUMBER NINETEEN      | 24E3 | CIRCLED LATIN SMALL LETTER T      |
| 2487 | PARENTHESIZED NUMBER TWENTY        | 24E4 | CIRCLED LATIN SMALL LETTER U      |
| 2488 | DIGIT ONE FULL STOP                | 24E5 | CIRCLED LATIN SMALL LETTER V      |
| 2489 | DIGIT TWO FULL STOP                | 24E6 | CIRCLED LATIN SMALL LETTER W      |
| 248A | DIGIT THREE FULL STOP              | 24E7 | CIRCLED LATIN SMALL LETTER X      |
| 248B | DIGIT FOUR FULL STOP               | 24E8 | CIRCLED LATIN SMALL LETTER Y      |
| 248C | DIGIT FIVE FULL STOP               | 24E9 | CIRCLED LATIN SMALL LETTER Z      |
| 248D | DIGIT SIX FULL STOP                | 24EA | CIRCLED DIGIT ZERO                |
| 248E | DIGIT SEVEN FULL STOP              | 24EB | NEGATIVE CIRCLED NUMBER ELEVEN    |
| 248F | DIGIT EIGHT FULL STOP              | 24EC | NEGATIVE CIRCLED NUMBER TWELVE    |
| 2490 | DIGIT NINE FULL STOP               | 24ED | NEGATIVE CIRCLED NUMBER THIRTEEN  |
| 2491 | NUMBER TEN FULL STOP               | 24EE | NEGATIVE CIRCLED NUMBER FOURTEEN  |
| 2492 | NUMBER ELEVEN FULL STOP            | 24EF | NEGATIVE CIRCLED NUMBER FIFTEEN   |
| 2493 | NUMBER TWELVE FULL STOP            | 24F0 | NEGATIVE CIRCLED NUMBER SIXTEEN   |
| 2494 | NUMBER THIRTEEN FULL STOP          | 24F1 | NEGATIVE CIRCLED NUMBER SEVENTEEN |
| 2495 | NUMBER FOURTEEN FULL STOP          | 24F2 | NEGATIVE CIRCLED NUMBER EIGHTEEN  |
| 2496 | NUMBER FIFTEEN FULL STOP           | 24F3 | NEGATIVE CIRCLED NUMBER NINETEEN  |
| 2497 | NUMBER SIXTEEN FULL STOP           | 24F4 | NEGATIVE CIRCLED NUMBER TWENTY    |
| 2498 | NUMBER SEVENTEEN FULL STOP         | 24F5 | DOUBLE CIRCLED DIGIT ONE          |
| 2499 | NUMBER EIGHTEEN FULL STOP          | 24F6 | DOUBLE CIRCLED DIGIT TWO          |
| 249A | NUMBER NINETEEN FULL STOP          | 24F7 | DOUBLE CIRCLED DIGIT THREE        |
| 249B | NUMBER TWENTY FULL STOP            | 24F8 | DOUBLE CIRCLED DIGIT FOUR         |
| 249C | PARENTHESIZED LATIN SMALL LETTER A | 24F9 | DOUBLE CIRCLED DIGIT FIVE         |
| 249D | PARENTHESIZED LATIN SMALL LETTER B | 24FA | DOUBLE CIRCLED DIGIT SIX          |
| 249E | PARENTHESIZED LATIN SMALL LETTER C | 24FB | DOUBLE CIRCLED DIGIT SEVEN        |
| 249F | PARENTHESIZED LATIN SMALL LETTER D | 24FC | DOUBLE CIRCLED DIGIT EIGHT        |
| 24A0 | PARENTHESIZED LATIN SMALL LETTER E | 24FD | DOUBLE CIRCLED DIGIT NINE         |
| 24A1 | PARENTHESIZED LATIN SMALL LETTER F | 24FE | DOUBLE CIRCLED NUMBER TEN         |
| 24A2 | PARENTHESIZED LATIN SMALL LETTER G | 24FF | (This position shall not be used) |
| 24A3 | PARENTHESIZED LATIN SMALL LETTER H |      |                                   |
| 24A4 | PARENTHESIZED LATIN SMALL LETTER I |      |                                   |
| 24A5 | PARENTHESIZED LATIN SMALL LETTER J |      |                                   |
| 24A6 | PARENTHESIZED LATIN SMALL LETTER K |      |                                   |
| 24A7 | PARENTHESIZED LATIN SMALL LETTER L |      |                                   |
| 24A8 | PARENTHESIZED LATIN SMALL LETTER M |      |                                   |
| 24A9 | PARENTHESIZED LATIN SMALL LETTER N |      |                                   |
| 24AA | PARENTHESIZED LATIN SMALL LETTER O |      |                                   |
| 24AB | PARENTHESIZED LATIN SMALL LETTER P |      |                                   |
| 24AC | PARENTHESIZED LATIN SMALL LETTER Q |      |                                   |
| 24AD | PARENTHESIZED LATIN SMALL LETTER R |      |                                   |
| 24AE | PARENTHESIZED LATIN SMALL LETTER S |      |                                   |
| 24AF | PARENTHESIZED LATIN SMALL LETTER T |      |                                   |
| 24B0 | PARENTHESIZED LATIN SMALL LETTER U |      |                                   |
| 24B1 | PARENTHESIZED LATIN SMALL LETTER V |      |                                   |
| 24B2 | PARENTHESIZED LATIN SMALL LETTER W |      |                                   |
| 24B3 | PARENTHESIZED LATIN SMALL LETTER X |      |                                   |
| 24B4 | PARENTHESIZED LATIN SMALL LETTER Y |      |                                   |
| 24B5 | PARENTHESIZED LATIN SMALL LETTER Z |      |                                   |
| 24B6 | CIRCLED LATIN CAPITAL LETTER A     |      |                                   |
| 24B7 | CIRCLED LATIN CAPITAL LETTER B     |      |                                   |
| 24B8 | CIRCLED LATIN CAPITAL LETTER C     |      |                                   |
| 24B9 | CIRCLED LATIN CAPITAL LETTER D     |      |                                   |
| 24BA | CIRCLED LATIN CAPITAL LETTER E     |      |                                   |
| 24BB | CIRCLED LATIN CAPITAL LETTER F     |      |                                   |
| 24BC | CIRCLED LATIN CAPITAL LETTER G     |      |                                   |

Group 00

Plane 00

Row 24

Table 73 - Row 25: Block Elements

|   | 258                                                                                         | 259                                                                                         |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 0 | <br>2580   | <br>2590   |
| 1 | <br>2581   | <br>2591   |
| 2 | <br>2582   | <br>2592   |
| 3 | <br>2583   | <br>2593   |
| 4 | <br>2584   | <br>2594   |
| 5 | <br>2585   | <br>2595   |
| 6 | <br>2586   | <br>2596   |
| 7 | <br>2587 | <br>2597 |
| 8 | <br>2588 | <br>2598 |
| 9 | <br>2589 | <br>2599 |
| A | <br>258A | <br>259A |
| B | <br>258B | <br>259B |
| C | <br>258C | <br>259C |
| D | <br>258D | <br>259D |
| E | <br>258E | <br>259E |
| F | <br>258F | <br>259F |

G = 00  
P = 00

Table 73 - Row 25: Block Elements

| HEX  | NAME                                                | HEX | NAME |
|------|-----------------------------------------------------|-----|------|
| 2580 | UPPER HALF BLOCK                                    |     |      |
| 2581 | LOWER ONE EIGHTH BLOCK                              |     |      |
| 2582 | LOWER ONE QUARTER BLOCK                             |     |      |
| 2583 | LOWER THREE EIGHTHS BLOCK                           |     |      |
| 2584 | LOWER HALF BLOCK                                    |     |      |
| 2585 | LOWER FIVE EIGHTHS BLOCK                            |     |      |
| 2586 | LOWER THREE QUARTERS BLOCK                          |     |      |
| 2587 | LOWER SEVEN EIGHTHS BLOCK                           |     |      |
| 2588 | FULL BLOCK                                          |     |      |
| 2589 | LEFT SEVEN EIGHTHS BLOCK                            |     |      |
| 258A | LEFT THREE QUARTERS BLOCK                           |     |      |
| 258B | LEFT FIVE EIGHTHS BLOCK                             |     |      |
| 258C | LEFT HALF BLOCK                                     |     |      |
| 258D | LEFT THREE EIGHTHS BLOCK                            |     |      |
| 258E | LEFT ONE QUARTER BLOCK                              |     |      |
| 258F | LEFT ONE EIGHTH BLOCK                               |     |      |
| 2590 | RIGHT HALF BLOCK                                    |     |      |
| 2591 | LIGHT SHADE                                         |     |      |
| 2592 | MEDIUM SHADE                                        |     |      |
| 2593 | DARK SHADE                                          |     |      |
| 2594 | UPPER ONE EIGHTH BLOCK                              |     |      |
| 2595 | RIGHT ONE EIGHTH BLOCK                              |     |      |
| 2596 | QUADRANT LOWER LEFT                                 |     |      |
| 2597 | QUADRANT LOWER RIGHT                                |     |      |
| 2598 | QUADRANT UPPER LEFT                                 |     |      |
| 2599 | QUADRANT UPPER LEFT AND LOWER LEFT AND LOWER RIGHT  |     |      |
| 259A | QUADRANT UPPER LEFT AND LOWER RIGHT                 |     |      |
| 259B | QUADRANT UPPER LEFT AND UPPER RIGHT AND LOWER LEFT  |     |      |
| 259C | QUADRANT UPPER LEFT AND UPPER RIGHT AND LOWER RIGHT |     |      |
| 259D | QUADRANT UPPER RIGHT                                |     |      |
| 259E | QUADRANT UPPER RIGHT AND LOWER LEFT                 |     |      |
| 259F | QUADRANT UPPER RIGHT AND LOWER LEFT AND LOWER RIGHT |     |      |

Group 00

Plane 00

Row 25

**Table 74 - Row 25: Geometric Shapes**

|   | 25A                                                                                         | 25B                                                                                         | 25C                                                                                         | 25D                                                                                         | 25E                                                                                         | 25F                                                                                         |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 0 | <br>25A0   | <br>25B0   | <br>25C0   | <br>25D0   | <br>25E0   | <br>25F0   |
| 1 | <br>25A1   | <br>25B1   | <br>25C1   | <br>25D1   | <br>25E1   | <br>25F1   |
| 2 | <br>25A2   | <br>25B2   | <br>25C2   | <br>25D2   | <br>25E2   | <br>25F2   |
| 3 | <br>25A3   | <br>25B3   | <br>25C3   | <br>25D3   | <br>25E3   | <br>25F3   |
| 4 | <br>25A4   | <br>25B4   | <br>25C4   | <br>25D4   | <br>25E4   | <br>25F4   |
| 5 | <br>25A5   | <br>25B5   | <br>25C5   | <br>25D5   | <br>25E5   | <br>25F5   |
| 6 | <br>25A6   | <br>25B6   | <br>25C6   | <br>25D6   | <br>25E6   | <br>25F6   |
| 7 | <br>25A7 | <br>25B7 | <br>25C7 | <br>25D7 | <br>25E7 | <br>25F7 |
| 8 | <br>25A8 | <br>25B8 | <br>25C8 | <br>25D8 | <br>25E8 | <br>25F8 |
| 9 | <br>25A9 | <br>25B9 | <br>25C9 | <br>25D9 | <br>25E9 | <br>25F9 |
| A | <br>25AA | <br>25BA | <br>25CA | <br>25DA | <br>25EA | <br>25FA |
| B | <br>25AB | <br>25BB | <br>25CB | <br>25DB | <br>25EB | <br>25FB |
| C | <br>25AC | <br>25BC | <br>25CC | <br>25DC | <br>25EC | <br>25FC |
| D | <br>25AD | <br>25BD | <br>25CD | <br>25DD | <br>25ED | <br>25FD |
| E | <br>25AE | <br>25BE | <br>25CE | <br>25DE | <br>25EE | <br>25FE |
| F | <br>25AF | <br>25BF | <br>25CF | <br>25DF | <br>25EF | <br>25FF |

G = 00  
P = 00

Table 74 - Row 25: Geometric Shapes

| HEX  | NAME                                          | HEX  | NAME                      |
|------|-----------------------------------------------|------|---------------------------|
| 25A0 | BLACK SQUARE                                  | 25FD | WHITE MEDIUM SMALL SQUARE |
| 25A1 | WHITE SQUARE                                  | 25FE | BLACK MEDIUM SMALL SQUARE |
| 25A2 | WHITE SQUARE WITH ROUNDED CORNERS             | 25FF | LOWER RIGHT TRIANGLE      |
| 25A3 | WHITE SQUARE CONTAINING BLACK SMALL SQUARE    |      |                           |
| 25A4 | SQUARE WITH HORIZONTAL FILL                   |      |                           |
| 25A5 | SQUARE WITH VERTICAL FILL                     |      |                           |
| 25A6 | SQUARE WITH ORTHOGONAL CROSSHATCH FILL        |      |                           |
| 25A7 | SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL    |      |                           |
| 25A8 | SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL    |      |                           |
| 25A9 | SQUARE WITH DIAGONAL CROSSHATCH FILL          |      |                           |
| 25AA | BLACK SMALL SQUARE                            |      |                           |
| 25AB | WHITE SMALL SQUARE                            |      |                           |
| 25AC | BLACK RECTANGLE                               |      |                           |
| 25AD | WHITE RECTANGLE                               |      |                           |
| 25AE | BLACK VERTICAL RECTANGLE                      |      |                           |
| 25AF | WHITE VERTICAL RECTANGLE                      |      |                           |
| 25B0 | BLACK PARALLELOGRAM                           |      |                           |
| 25B1 | WHITE PARALLELOGRAM                           |      |                           |
| 25B2 | BLACK UP-POINTING TRIANGLE                    |      |                           |
| 25B3 | WHITE UP-POINTING TRIANGLE                    |      |                           |
| 25B4 | BLACK UP-POINTING SMALL TRIANGLE              |      |                           |
| 25B5 | WHITE UP-POINTING SMALL TRIANGLE              |      |                           |
| 25B6 | BLACK RIGHT-POINTING TRIANGLE                 |      |                           |
| 25B7 | WHITE RIGHT-POINTING TRIANGLE                 |      |                           |
| 25B8 | BLACK RIGHT-POINTING SMALL TRIANGLE           |      |                           |
| 25B9 | WHITE RIGHT-POINTING SMALL TRIANGLE           |      |                           |
| 25BA | BLACK RIGHT-POINTING POINTER                  |      |                           |
| 25BB | WHITE RIGHT-POINTING POINTER                  |      |                           |
| 25BC | BLACK DOWN-POINTING TRIANGLE                  |      |                           |
| 25BD | WHITE DOWN-POINTING TRIANGLE                  |      |                           |
| 25BE | BLACK DOWN-POINTING SMALL TRIANGLE            |      |                           |
| 25BF | WHITE DOWN-POINTING SMALL TRIANGLE            |      |                           |
| 25C0 | BLACK LEFT-POINTING TRIANGLE                  |      |                           |
| 25C1 | WHITE LEFT-POINTING TRIANGLE                  |      |                           |
| 25C2 | BLACK LEFT-POINTING SMALL TRIANGLE            |      |                           |
| 25C3 | WHITE LEFT-POINTING SMALL TRIANGLE            |      |                           |
| 25C4 | BLACK LEFT-POINTING POINTER                   |      |                           |
| 25C5 | WHITE LEFT-POINTING POINTER                   |      |                           |
| 25C6 | BLACK DIAMOND                                 |      |                           |
| 25C7 | WHITE DIAMOND                                 |      |                           |
| 25C8 | WHITE DIAMOND CONTAINING BLACK SMALL DIAMOND  |      |                           |
| 25C9 | FISHEYE                                       |      |                           |
| 25CA | LOZENGE                                       |      |                           |
| 25CB | WHITE CIRCLE                                  |      |                           |
| 25CC | DOTTED CIRCLE                                 |      |                           |
| 25CD | CIRCLE WITH VERTICAL FILL                     |      |                           |
| 25CE | BULLSEYE                                      |      |                           |
| 25CF | BLACK CIRCLE                                  |      |                           |
| 25D0 | CIRCLE WITH LEFT HALF BLACK                   |      |                           |
| 25D1 | CIRCLE WITH RIGHT HALF BLACK                  |      |                           |
| 25D2 | CIRCLE WITH LOWER HALF BLACK                  |      |                           |
| 25D3 | CIRCLE WITH UPPER HALF BLACK                  |      |                           |
| 25D4 | CIRCLE WITH UPPER RIGHT QUADRANT BLACK        |      |                           |
| 25D5 | CIRCLE WITH ALL BUT UPPER LEFT QUADRANT BLACK |      |                           |
| 25D6 | LEFT HALF BLACK CIRCLE                        |      |                           |
| 25D7 | RIGHT HALF BLACK CIRCLE                       |      |                           |
| 25D8 | INVERSE BULLET                                |      |                           |
| 25D9 | INVERSE WHITE CIRCLE                          |      |                           |
| 25DA | UPPER HALF INVERSE WHITE CIRCLE               |      |                           |
| 25DB | LOWER HALF INVERSE WHITE CIRCLE               |      |                           |
| 25DC | UPPER LEFT QUADRANT CIRCULAR ARC              |      |                           |
| 25DD | UPPER RIGHT QUADRANT CIRCULAR ARC             |      |                           |
| 25DE | LOWER RIGHT QUADRANT CIRCULAR ARC             |      |                           |
| 25DF | LOWER LEFT QUADRANT CIRCULAR ARC              |      |                           |
| 25E0 | UPPER HALF CIRCLE                             |      |                           |
| 25E1 | LOWER HALF CIRCLE                             |      |                           |
| 25E2 | BLACK LOWER RIGHT TRIANGLE                    |      |                           |
| 25E3 | BLACK LOWER LEFT TRIANGLE                     |      |                           |
| 25E4 | BLACK UPPER LEFT TRIANGLE                     |      |                           |
| 25E5 | BLACK UPPER RIGHT TRIANGLE                    |      |                           |
| 25E6 | WHITE BULLET                                  |      |                           |
| 25E7 | SQUARE WITH LEFT HALF BLACK                   |      |                           |
| 25E8 | SQUARE WITH RIGHT HALF BLACK                  |      |                           |
| 25E9 | SQUARE WITH UPPER LEFT DIAGONAL HALF BLACK    |      |                           |
| 25EA | SQUARE WITH LOWER RIGHT DIAGONAL HALF BLACK   |      |                           |
| 25EB | WHITE SQUARE WITH VERTICAL BISECTING LINE     |      |                           |
| 25EC | WHITE UP-POINTING TRIANGLE WITH DOT           |      |                           |
| 25ED | UP-POINTING TRIANGLE WITH LEFT HALF BLACK     |      |                           |
| 25EE | UP-POINTING TRIANGLE WITH RIGHT HALF BLACK    |      |                           |
| 25EF | LARGE CIRCLE                                  |      |                           |
| 25F0 | WHITE SQUARE WITH UPPER LEFT QUADRANT         |      |                           |
| 25F1 | WHITE SQUARE WITH LOWER LEFT QUADRANT         |      |                           |
| 25F2 | WHITE SQUARE WITH LOWER RIGHT QUADRANT        |      |                           |
| 25F3 | WHITE SQUARE WITH UPPER RIGHT QUADRANT        |      |                           |
| 25F4 | WHITE CIRCLE WITH UPPER LEFT QUADRANT         |      |                           |
| 25F5 | WHITE CIRCLE WITH LOWER LEFT QUADRANT         |      |                           |
| 25F6 | WHITE CIRCLE WITH LOWER RIGHT QUADRANT        |      |                           |
| 25F7 | WHITE CIRCLE WITH UPPER RIGHT QUADRANT        |      |                           |
| 25F8 | UPPER LEFT TRIANGLE                           |      |                           |
| 25F9 | UPPER RIGHT TRIANGLE                          |      |                           |
| 25FA | LOWER LEFT TRIANGLE                           |      |                           |
| 25FB | WHITE MEDIUM SQUARE                           |      |                           |
| 25FC | BLACK MEDIUM SQUARE                           |      |                           |

Group 00

Plane 00

Row 25

Table 75 - Row 26: Miscellaneous Symbols

|   | 260                                                                                         | 261                                                                                         | 262                                                                                         | 263                                                                                         | 264                                                                                         | 265                                                                                         | 266                                                                                         | 267                                                                                          |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 0 | <br>2600   | <br>2610   | <br>2620   | <br>2630   | <br>2640   | <br>2650   | <br>2660   | <br>2670   |
| 1 | <br>2601   | <br>2611   | <br>2621   | <br>2631   | <br>2641   | <br>2651   | <br>2661   | <br>2671   |
| 2 | <br>2602   | <br>2612   | <br>2622   | <br>2632   | <br>2642   | <br>2652   | <br>2662   | <br>2672   |
| 3 | <br>2603   | <br>2613   | <br>2623   | <br>2633   | <br>2643   | <br>2653   | <br>2663   | <br>2673   |
| 4 | <br>2604   | <br>2614   | <br>2624   | <br>2634   | <br>2644   | <br>2654   | <br>2664   | <br>2674   |
| 5 | <br>2605   | <br>2615   | <br>2625   | <br>2635   | <br>2645   | <br>2655   | <br>2665   | <br>2675   |
| 6 | <br>2606   | <br>2616   | <br>2626   | <br>2636   | <br>2646   | <br>2656   | <br>2666   | <br>2676   |
| 7 | <br>2607 | <br>2617 | <br>2627 | <br>2637 | <br>2647 | <br>2657 | <br>2667 | <br>2677 |
| 8 | <br>2608 | <br>2618 | <br>2628 | <br>2638 | <br>2648 | <br>2658 | <br>2668 | <br>2678 |
| 9 | <br>2609 | <br>2619 | <br>2629 | <br>2639 | <br>2649 | <br>2659 | <br>2669 | <br>2679 |
| A | <br>260A | <br>261A | <br>262A | <br>263A | <br>264A | <br>265A | <br>266A | <br>267A |
| B | <br>260B | <br>261B | <br>262B | <br>263B | <br>264B | <br>265B | <br>266B | <br>267B |
| C | <br>260C | <br>261C | <br>262C | <br>263C | <br>264C | <br>265C | <br>266C | <br>267C |
| D | <br>260D | <br>261D | <br>262D | <br>263D | <br>264D | <br>265D | <br>266D | <br>267D |
| E | <br>260E | <br>261E | <br>262E | <br>263E | <br>264E | <br>265E | <br>266E | <br>267E |
| F | <br>260F | <br>261F | <br>262F | <br>263F | <br>264F | <br>265F | <br>266F | <br>267F |

G = 00  
P = 00

Table 75 - Row 26: Miscellaneous Symbols

| HEX  | NAME                                 | HEX  | NAME                                         |
|------|--------------------------------------|------|----------------------------------------------|
| 2600 | BLACK SUN WITH RAYS                  | 265D | BLACK CHESS BISHOP                           |
| 2601 | CLOUD                                | 265E | BLACK CHESS KNIGHT                           |
| 2602 | UMBRELLA                             | 265F | BLACK CHESS PAWN                             |
| 2603 | SNOWMAN                              | 2660 | BLACK SPADE SUIT                             |
| 2604 | COMET                                | 2661 | WHITE HEART SUIT                             |
| 2605 | BLACK STAR                           | 2662 | WHITE DIAMOND SUIT                           |
| 2606 | WHITE STAR                           | 2663 | BLACK CLUB SUIT                              |
| 2607 | LIGHTNING                            | 2664 | WHITE SPADE SUIT                             |
| 2608 | THUNDERSTORM                         | 2665 | BLACK HEART SUIT                             |
| 2609 | SUN                                  | 2666 | BLACK DIAMOND SUIT                           |
| 260A | ASCENDING NODE                       | 2667 | WHITE CLUB SUIT                              |
| 260B | DESCENDING NODE                      | 2668 | HOT SPRINGS                                  |
| 260C | CONJUNCTION                          | 2669 | QUARTER NOTE                                 |
| 260D | OPPOSITION                           | 266A | EIGHTH NOTE                                  |
| 260E | BLACK TELEPHONE                      | 266B | BEAMED EIGHTH NOTES                          |
| 260F | WHITE TELEPHONE                      | 266C | BEAMED SIXTEENTH NOTES                       |
| 2610 | BALLOT BOX                           | 266D | MUSIC FLAT SIGN                              |
| 2611 | BALLOT BOX WITH CHECK                | 266E | MUSIC NATURAL SIGN                           |
| 2612 | BALLOT BOX WITH X                    | 266F | MUSIC SHARP SIGN                             |
| 2613 | SALTIRE                              | 2670 | WEST SYRIAC CROSS                            |
| 2614 | (This position shall not be used)    | 2671 | EAST SYRIAC CROSS                            |
| 2615 | (This position shall not be used)    | 2672 | UNIVERSAL RECYCLING SYMBOL                   |
| 2616 | WHITE SHOGI PIECE                    | 2673 | RECYCLING SYMBOL FOR TYPE-1 PLASTICS (pete)  |
| 2617 | BLACK SHOGI PIECE                    | 2674 | RECYCLING SYMBOL FOR TYPE-2 PLASTICS (hdpe)  |
| 2618 | (This position shall not be used)    | 2675 | RECYCLING SYMBOL FOR TYPE-3 PLASTICS (pvc)   |
| 2619 | REVERSED ROTATED FLORAL HEART BULLET | 2676 | RECYCLING SYMBOL FOR TYPE-4 PLASTICS (ldpe)  |
| 261A | BLACK LEFT POINTING INDEX            | 2677 | RECYCLING SYMBOL FOR TYPE-5 PLASTICS (pp)    |
| 261B | BLACK RIGHT POINTING INDEX           | 2678 | RECYCLING SYMBOL FOR TYPE-6 PLASTICS (ps)    |
| 261C | WHITE LEFT POINTING INDEX            | 2679 | RECYCLING SYMBOL FOR TYPE-7 PLASTICS (other) |
| 261D | WHITE UP POINTING INDEX              | 267A | RECYCLING SYMBOL FOR GENERIC MATERIALS       |
| 261E | WHITE RIGHT POINTING INDEX           | 267B | BLACK UNIVERSAL RECYCLING SYMBOL             |
| 261F | WHITE DOWN POINTING INDEX            | 267C | RECYCLED PAPER SYMBOL                        |
| 2620 | SKULL AND CROSSBONES                 | 267D | PARTIALLY RECYCLED PAPER SYMBOL              |
| 2621 | CAUTION SIGN                         | 267E | (This position shall not be used)            |
| 2622 | RADIOACTIVE SIGN                     | 267F | (This position shall not be used)            |
| 2623 | BIOHAZARD SIGN                       |      |                                              |
| 2624 | CADUCEUS                             |      |                                              |
| 2625 | ANKH                                 |      |                                              |
| 2626 | ORTHODOX CROSS                       |      |                                              |
| 2627 | CHI RHO                              |      |                                              |
| 2628 | CROSS OF LORRAINE                    |      |                                              |
| 2629 | CROSS OF JERUSALEM                   |      |                                              |
| 262A | STAR AND CRESCENT                    |      |                                              |
| 262B | FARSI SYMBOL                         |      |                                              |
| 262C | ADI SHAKTI                           |      |                                              |
| 262D | HAMMER AND SICKLE                    |      |                                              |
| 262E | PEACE SYMBOL                         |      |                                              |
| 262F | YIN YANG                             |      |                                              |
| 2630 | TRIGRAM FOR HEAVEN                   |      |                                              |
| 2631 | TRIGRAM FOR LAKE                     |      |                                              |
| 2632 | TRIGRAM FOR FIRE                     |      |                                              |
| 2633 | TRIGRAM FOR THUNDER                  |      |                                              |
| 2634 | TRIGRAM FOR WIND                     |      |                                              |
| 2635 | TRIGRAM FOR WATER                    |      |                                              |
| 2636 | TRIGRAM FOR MOUNTAIN                 |      |                                              |
| 2637 | TRIGRAM FOR EARTH                    |      |                                              |
| 2638 | WHEEL OF DHARMA                      |      |                                              |
| 2639 | WHITE FROWNING FACE                  |      |                                              |
| 263A | WHITE SMILING FACE                   |      |                                              |
| 263B | BLACK SMILING FACE                   |      |                                              |
| 263C | WHITE SUN WITH RAYS                  |      |                                              |
| 263D | FIRST QUARTER MOON                   |      |                                              |
| 263E | LAST QUARTER MOON                    |      |                                              |
| 263F | MERCURY                              |      |                                              |
| 2640 | FEMALE SIGN                          |      |                                              |
| 2641 | EARTH                                |      |                                              |
| 2642 | MALE SIGN                            |      |                                              |
| 2643 | JUPITER                              |      |                                              |
| 2644 | SATURN                               |      |                                              |
| 2645 | URANUS                               |      |                                              |
| 2646 | NEPTUNE                              |      |                                              |
| 2647 | PLUTO                                |      |                                              |
| 2648 | ARIES                                |      |                                              |
| 2649 | TAURUS                               |      |                                              |
| 264A | GEMINI                               |      |                                              |
| 264B | CANCER                               |      |                                              |
| 264C | LEO                                  |      |                                              |
| 264D | VIRGO                                |      |                                              |
| 264E | LIBRA                                |      |                                              |
| 264F | SCORPIUS                             |      |                                              |
| 2650 | SAGITTARIUS                          |      |                                              |
| 2651 | CAPRICORN                            |      |                                              |
| 2652 | AQUARIUS                             |      |                                              |
| 2653 | PISCES                               |      |                                              |
| 2654 | WHITE CHESS KING                     |      |                                              |
| 2655 | WHITE CHESS QUEEN                    |      |                                              |
| 2656 | WHITE CHESS ROOK                     |      |                                              |
| 2657 | WHITE CHESS BISHOP                   |      |                                              |
| 2658 | WHITE CHESS KNIGHT                   |      |                                              |
| 2659 | WHITE CHESS PAWN                     |      |                                              |
| 265A | BLACK CHESS KING                     |      |                                              |
| 265B | BLACK CHESS QUEEN                    |      |                                              |
| 265C | BLACK CHESS ROOK                     |      |                                              |

Group 00

Plane 00

Row 26

**Table 76 - Row 26: Miscellaneous Symbols**

|   | 268                                                                                         | 269 | 26A | 26B | 26C | 26D | 26E | 26F |
|---|---------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| 0 | <br>2680   |     |     |     |     |     |     |     |
| 1 | <br>2681   |     |     |     |     |     |     |     |
| 2 | <br>2682   |     |     |     |     |     |     |     |
| 3 | <br>2683   |     |     |     |     |     |     |     |
| 4 | <br>2684   |     |     |     |     |     |     |     |
| 5 | <br>2685   |     |     |     |     |     |     |     |
| 6 | <br>2686   |     |     |     |     |     |     |     |
| 7 | <br>2687 |     |     |     |     |     |     |     |
| 8 | <br>2688 |     |     |     |     |     |     |     |
| 9 | <br>2689 |     |     |     |     |     |     |     |
| A |                                                                                             |     |     |     |     |     |     |     |
| B |                                                                                             |     |     |     |     |     |     |     |
| C |                                                                                             |     |     |     |     |     |     |     |
| D |                                                                                             |     |     |     |     |     |     |     |
| E |                                                                                             |     |     |     |     |     |     |     |
| F |                                                                                             |     |     |     |     |     |     |     |

G = 00  
P = 00

### Table 76 - Row 26: Miscellaneous Symbols

[illegible]

## Group 00

## Plane 00

Row 26

Table 78 - Row 27: Dingbats

|   | 276                                                                                 | 277                                                                               | 278 | 279 | 27A | 27B |
|---|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|-----|-----|-----|
| 0 |                                                                                     |  | ①   | ⑦   | ▬➔  |     |
| 1 |    |  | ②   | ⑧   | ➔   | ➞   |
| 2 |    |  | ③   | ⑨   | ➞   | ➞   |
| 3 |    |  | ④   | ⑩   | ➞   | ➞   |
| 4 |    |  | ⑤   | ➞   | ➞   | ➞   |
| 5 |    |  | ⑥   |     | ➞   | ➞   |
| 6 |    | ①                                                                                 | ⑦   |     | ➞   | ➞   |
| 7 |  | ②                                                                                 | ⑧   |     | ➞   | ➞   |
| 8 |  | ③                                                                                 | ⑨   | ➞   | ➞   | ➞   |
| 9 |  | ④                                                                                 | ⑩   | ➞   | ➞   | ➞   |
| A |  | ⑤                                                                                 | ①   | ➞   | ➞   | ➞   |
| B |  | ⑥                                                                                 | ②   | ➞   | ➞   | ➞   |
| C |  | ⑦                                                                                 | ③   | ➞   | ➞   | ➞   |
| D |  | ⑧                                                                                 | ④   | ➞   | ➞   | ➞   |
| E |  | ⑨                                                                                 | ⑤   | ➞   | ➞   | ➞   |
| F |  | ⑩                                                                                 | ⑥   | ▬➔  | ➞   |     |

G = 00  
P = 00

Table 78 - Row 27: Dingbats

| HEX  | NAME                                                | HEX  | NAME                                |
|------|-----------------------------------------------------|------|-------------------------------------|
| 2760 | (This position shall not be used)                   | 27BD | HEAVY WEDGE-TAILED RIGHTWARDS ARROW |
| 2761 | CURVED STEM PARAGRAPH SIGN ORNAMENT                 | 27BE | OPEN-OUTLINED RIGHTWARDS ARROW      |
| 2762 | HEAVY EXCLAMATION MARK ORNAMENT                     | 27BF | (This position shall not be used)   |
| 2763 | HEAVY HEART EXCLAMATION MARK ORNAMENT               |      |                                     |
| 2764 | HEAVY BLACK HEART                                   |      |                                     |
| 2765 | ROTATED HEAVY BLACK HEART BULLET                    |      |                                     |
| 2766 | FLORAL HEART                                        |      |                                     |
| 2767 | ROTATED FLORAL HEART BULLET                         |      |                                     |
| 2768 | MEDIUM LEFT PARENTHESIS ORNAMENT                    |      |                                     |
| 2769 | MEDIUM RIGHT PARENTHESIS ORNAMENT                   |      |                                     |
| 276A | MEDIUM FLATTENED LEFT PARENTHESIS ORNAMENT          |      |                                     |
| 276B | MEDIUM FLATTENED RIGHT PARENTHESIS ORNAMENT         |      |                                     |
| 276C | MEDIUM LEFT-POINTING ANGLE BRACKET ORNAMENT         |      |                                     |
| 276D | MEDIUM RIGHT-POINTING ANGLE BRACKET ORNAMENT        |      |                                     |
| 276E | HEAVY LEFT-POINTING ANGLE QUOTATION MARK ORNAMENT   |      |                                     |
| 276F | HEAVY RIGHT-POINTING ANGLE QUOTATION MARK ORNAMENT  |      |                                     |
| 2770 | HEAVY LEFT-POINTING ANGLE BRACKET ORNAMENT          |      |                                     |
| 2771 | HEAVY RIGHT-POINTING ANGLE BRACKET ORNAMENT         |      |                                     |
| 2772 | LIGHT LEFT TORTOISE SHELL BRACKET ORNAMENT          |      |                                     |
| 2773 | LIGHT RIGHT TORTOISE SHELL BRACKET ORNAMENT         |      |                                     |
| 2774 | MEDIUM LEFT CURLY BRACKET ORNAMENT                  |      |                                     |
| 2775 | MEDIUM RIGHT CURLY BRACKET ORNAMENT                 |      |                                     |
| 2776 | DINGBAT NEGATIVE CIRCLED DIGIT ONE                  |      |                                     |
| 2777 | DINGBAT NEGATIVE CIRCLED DIGIT TWO                  |      |                                     |
| 2778 | DINGBAT NEGATIVE CIRCLED DIGIT THREE                |      |                                     |
| 2779 | DINGBAT NEGATIVE CIRCLED DIGIT FOUR                 |      |                                     |
| 277A | DINGBAT NEGATIVE CIRCLED DIGIT FIVE                 |      |                                     |
| 277B | DINGBAT NEGATIVE CIRCLED DIGIT SIX                  |      |                                     |
| 277C | DINGBAT NEGATIVE CIRCLED DIGIT SEVEN                |      |                                     |
| 277D | DINGBAT NEGATIVE CIRCLED DIGIT EIGHT                |      |                                     |
| 277E | DINGBAT NEGATIVE CIRCLED DIGIT NINE                 |      |                                     |
| 277F | DINGBAT NEGATIVE CIRCLED NUMBER TEN                 |      |                                     |
| 2780 | DINGBAT CIRCLED SANS-SERIF DIGIT ONE                |      |                                     |
| 2781 | DINGBAT CIRCLED SANS-SERIF DIGIT TWO                |      |                                     |
| 2782 | DINGBAT CIRCLED SANS-SERIF DIGIT THREE              |      |                                     |
| 2783 | DINGBAT CIRCLED SANS-SERIF DIGIT FOUR               |      |                                     |
| 2784 | DINGBAT CIRCLED SANS-SERIF DIGIT FIVE               |      |                                     |
| 2785 | DINGBAT CIRCLED SANS-SERIF DIGIT SIX                |      |                                     |
| 2786 | DINGBAT CIRCLED SANS-SERIF DIGIT SEVEN              |      |                                     |
| 2787 | DINGBAT CIRCLED SANS-SERIF DIGIT EIGHT              |      |                                     |
| 2788 | DINGBAT CIRCLED SANS-SERIF DIGIT NINE               |      |                                     |
| 2789 | DINGBAT CIRCLED SANS-SERIF NUMBER TEN               |      |                                     |
| 278A | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT ONE       |      |                                     |
| 278B | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT TWO       |      |                                     |
| 278C | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT THREE     |      |                                     |
| 278D | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FOUR      |      |                                     |
| 278E | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FIVE      |      |                                     |
| 278F | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SIX       |      |                                     |
| 2790 | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SEVEN     |      |                                     |
| 2791 | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT EIGHT     |      |                                     |
| 2792 | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT NINE      |      |                                     |
| 2793 | DINGBAT NEGATIVE CIRCLED SANS-SERIF NUMBER TEN      |      |                                     |
| 2794 | HEAVY WIDE-HEADED RIGHTWARDS ARROW                  |      |                                     |
| 2795 | (This position shall not be used)                   |      |                                     |
| 2796 | (This position shall not be used)                   |      |                                     |
| 2797 | (This position shall not be used)                   |      |                                     |
| 2798 | HEAVY SOUTH EAST ARROW                              |      |                                     |
| 2799 | HEAVY RIGHTWARDS ARROW                              |      |                                     |
| 279A | HEAVY NORTH EAST ARROW                              |      |                                     |
| 279B | DRAFTING POINT RIGHTWARDS ARROW                     |      |                                     |
| 279C | HEAVY ROUND-TIPPED RIGHTWARDS ARROW                 |      |                                     |
| 279D | TRIANGLE-HEADED RIGHTWARDS ARROW                    |      |                                     |
| 279E | HEAVY TRIANGLE-HEADED RIGHTWARDS ARROW              |      |                                     |
| 279F | DASHED TRIANGLE-HEADED RIGHTWARDS ARROW             |      |                                     |
| 27A0 | HEAVY DASHED TRIANGLE-HEADED RIGHTWARDS ARROW       |      |                                     |
| 27A1 | BLACK RIGHTWARDS ARROW                              |      |                                     |
| 27A2 | THREE-D TOP-LIGHTED RIGHTWARDS ARROWHEAD            |      |                                     |
| 27A3 | THREE-D BOTTOM-LIGHTED RIGHTWARDS ARROWHEAD         |      |                                     |
| 27A4 | BLACK RIGHTWARDS ARROWHEAD                          |      |                                     |
| 27A5 | HEAVY BLACK CURVED DOWNWARDS AND RIGHTWARDS ARROW   |      |                                     |
| 27A6 | HEAVY BLACK CURVED UPWARDS AND RIGHTWARDS ARROW     |      |                                     |
| 27A7 | SQUAT BLACK RIGHTWARDS ARROW                        |      |                                     |
| 27A8 | HEAVY CONCAVE-POINTED BLACK RIGHTWARDS ARROW        |      |                                     |
| 27A9 | RIGHT-SHADED WHITE RIGHTWARDS ARROW                 |      |                                     |
| 27AA | LEFT-SHADED WHITE RIGHTWARDS ARROW                  |      |                                     |
| 27AB | BACK-TILTED SHADOWED WHITE RIGHTWARDS ARROW         |      |                                     |
| 27AC | FRONT-TILTED SHADOWED WHITE RIGHTWARDS ARROW        |      |                                     |
| 27AD | HEAVY LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW   |      |                                     |
| 27AE | HEAVY UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW   |      |                                     |
| 27AF | NOTCHED LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW |      |                                     |
| 27B0 | (This position shall not be used)                   |      |                                     |
| 27B1 | NOTCHED UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW |      |                                     |
| 27B2 | CIRCLED HEAVY WHITE RIGHTWARDS ARROW                |      |                                     |
| 27B3 | WHITE-FEATHERED RIGHTWARDS ARROW                    |      |                                     |
| 27B4 | BLACK-FEATHERED SOUTH EAST ARROW                    |      |                                     |
| 27B5 | BLACK-FEATHERED RIGHTWARDS ARROW                    |      |                                     |
| 27B6 | BLACK-FEATHERED NORTH EAST ARROW                    |      |                                     |
| 27B7 | HEAVY BLACK-FEATHERED SOUTH EAST ARROW              |      |                                     |
| 27B8 | HEAVY BLACK-FEATHERED RIGHTWARDS ARROW              |      |                                     |
| 27B9 | HEAVY BLACK-FEATHERED NORTH EAST ARROW              |      |                                     |
| 27BA | TEARDROP-BARBED RIGHTWARDS ARROW                    |      |                                     |
| 27BB | HEAVY TEARDROP-SHANKED RIGHTWARDS ARROW             |      |                                     |
| 27BC | WEDGE-TAILED RIGHTWARDS ARROW                       |      |                                     |

Group 00

Plane 00

Row 27

Table 79 - Row 27: Miscellaneous Mathematical Symbols-A

|   | 27D                                                                                         | 27E                                                                                         |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 0 | <br>27D0   | <br>27E0   |
| 1 | <br>27D1   | <br>27E1   |
| 2 | <br>27D2   | <br>27E2   |
| 3 | <br>27D3   | <br>27E3   |
| 4 | <br>27D4   | <br>27E4   |
| 5 | <br>27D5   | <br>27E5   |
| 6 | <br>27D6  | <br>27E6  |
| 7 | <br>27D7 | <br>27E7 |
| 8 | <br>27D8 | <br>27E8 |
| 9 | <br>27D9 | <br>27E9 |
| A | <br>27DA | <br>27EA |
| B | <br>27DB | <br>27EB |
| C | <br>27DC |                                                                                             |
| D | <br>27DD |                                                                                             |
| E | <br>27DE |                                                                                             |
| F | <br>27DF |                                                                                             |

G = 00  
P = 00

**Table 79 - Row 27: Miscellaneous Mathematical Symbols-A**

| HEX  | NAME                                             | HEX | NAME |
|------|--------------------------------------------------|-----|------|
| 27D0 | WHITE DIAMOND WITH CENTRED DOT                   |     |      |
| 27D1 | AND WITH DOT                                     |     |      |
| 27D2 | ELEMENT OF OPENING UPWARDS                       |     |      |
| 27D3 | LOWER RIGHT CORNER WITH DOT                      |     |      |
| 27D4 | UPPER LEFT CORNER WITH DOT                       |     |      |
| 27D5 | LEFT OUTER JOIN                                  |     |      |
| 27D6 | RIGHT OUTER JOIN                                 |     |      |
| 27D7 | FULL OUTER JOIN                                  |     |      |
| 27D8 | LARGE UP TACK                                    |     |      |
| 27D9 | LARGE DOWN TACK                                  |     |      |
| 27DA | LEFT AND RIGHT DOUBLE TURNSTILE                  |     |      |
| 27DB | LEFT AND RIGHT TACK                              |     |      |
| 27DC | LEFT MULTIMAP                                    |     |      |
| 27DD | LONG RIGHT TACK                                  |     |      |
| 27DE | LONG LEFT TACK                                   |     |      |
| 27DF | UP TACK WITH CIRCLE ABOVE                        |     |      |
| 27E0 | LOZENGE DIVIDED BY HORIZONTAL RULE               |     |      |
| 27E1 | WHITE CONCAVE-SIDED DIAMOND                      |     |      |
| 27E2 | WHITE CONCAVE-SIDED DIAMOND WITH LEFTWARDS TICK  |     |      |
| 27E3 | WHITE CONCAVE-SIDED DIAMOND WITH RIGHTWARDS TICK |     |      |
| 27E4 | WHITE SQUARE WITH LEFTWARDS TICK                 |     |      |
| 27E5 | WHITE SQUARE WITH RIGHTWARDS TICK                |     |      |
| 27E6 | MATHEMATICAL LEFT WHITE SQUARE BRACKET           |     |      |
| 27E7 | MATHEMATICAL RIGHT WHITE SQUARE BRACKET          |     |      |
| 27E8 | MATHEMATICAL LEFT ANGLE BRACKET                  |     |      |
| 27E9 | MATHEMATICAL RIGHT ANGLE BRACKET                 |     |      |
| 27EA | MATHEMATICAL LEFT DOUBLE ANGLE BRACKET           |     |      |
| 27EB | MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET          |     |      |
| 27EC | (This position shall not be used)                |     |      |
| 27ED | (This position shall not be used)                |     |      |
| 27EE | (This position shall not be used)                |     |      |
| 27EF | (This position shall not be used)                |     |      |

Group 00

Plane 00

Row 27

Table 80 - Row 27: Supplemental Arrows-A

| 27F |                                                                                             |
|-----|---------------------------------------------------------------------------------------------|
| 0   | <br>27F0   |
| 1   | <br>27F1   |
| 2   | <br>27F2   |
| 3   | <br>27F3   |
| 4   | <br>27F4   |
| 5   | <br>27F5   |
| 6   | <br>27F6   |
| 7   | <br>27F7 |
| 8   | <br>27F8 |
| 9   | <br>27F9 |
| A   | <br>27FA |
| B   | <br>27FB |
| C   | <br>27FC |
| D   | <br>27FD |
| E   | <br>27FE |
| F   | <br>27FF |

G = 00  
P = 00

**Table 80 - Row 27: Supplemental Arrows-A**

| HEX  | NAME                                  | HEX | NAME |
|------|---------------------------------------|-----|------|
| 27F0 | UPWARDS QUADRUPLE ARROW               |     |      |
| 27F1 | DOWNWARDS QUADRUPLE ARROW             |     |      |
| 27F2 | ANTICLOCKWISE GAPPED CIRCLE ARROW     |     |      |
| 27F3 | CLOCKWISE GAPPED CIRCLE ARROW         |     |      |
| 27F4 | RIGHT ARROW WITH CIRCLED PLUS         |     |      |
| 27F5 | LONG LEFTWARDS ARROW                  |     |      |
| 27F6 | LONG RIGHTWARDS ARROW                 |     |      |
| 27F7 | LONG LEFT RIGHT ARROW                 |     |      |
| 27F8 | LONG LEFTWARDS DOUBLE ARROW           |     |      |
| 27F9 | LONG RIGHTWARDS DOUBLE ARROW          |     |      |
| 27FA | LONG LEFT RIGHT DOUBLE ARROW          |     |      |
| 27FB | LONG LEFTWARDS ARROW FROM BAR         |     |      |
| 27FC | LONG RIGHTWARDS ARROW FROM BAR        |     |      |
| 27FD | LONG LEFTWARDS DOUBLE ARROW FROM BAR  |     |      |
| 27FE | LONG RIGHTWARDS DOUBLE ARROW FROM BAR |     |      |
| 27FF | LONG RIGHTWARDS SQUIGGLE ARROW        |     |      |

**Group 00****Plane 00****Row 27**

**Table 83 - Row 29: Supplemental Arrows-B**

|   | 290                                                                                         | 291                                                                                         | 292                                                                                         | 293                                                                                         | 294                                                                                         | 295                                                                                         | 296                                                                                         | 297                                                                                          |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 0 | <br>2900   | <br>2910   | <br>2920   | <br>2930   | <br>2940   | <br>2950   | <br>2960   | <br>2970   |
| 1 | <br>2901   | <br>2911   | <br>2921   | <br>2931   | <br>2941   | <br>2951   | <br>2961   | <br>2971   |
| 2 | <br>2902   | <br>2912   | <br>2922   | <br>2932   | <br>2942   | <br>2952   | <br>2962   | <br>2972   |
| 3 | <br>2903   | <br>2913   | <br>2923   | <br>2933   | <br>2943   | <br>2953   | <br>2963   | <br>2973   |
| 4 | <br>2904   | <br>2914   | <br>2924   | <br>2934   | <br>2944   | <br>2954   | <br>2964   | <br>2974   |
| 5 | <br>2905   | <br>2915   | <br>2925   | <br>2935   | <br>2945   | <br>2955   | <br>2965   | <br>2975   |
| 6 | <br>2906   | <br>2916   | <br>2926   | <br>2936   | <br>2946   | <br>2956   | <br>2966   | <br>2976   |
| 7 | <br>2907 | <br>2917 | <br>2927 | <br>2937 | <br>2947 | <br>2957 | <br>2967 | <br>2977 |
| 8 | <br>2908 | <br>2918 | <br>2928 | <br>2938 | <br>2948 | <br>2958 | <br>2968 | <br>2978 |
| 9 | <br>2909 | <br>2919 | <br>2929 | <br>2939 | <br>2949 | <br>2959 | <br>2969 | <br>2979 |
| A | <br>290A | <br>291A | <br>292A | <br>293A | <br>294A | <br>295A | <br>296A | <br>297A |
| B | <br>290B | <br>291B | <br>292B | <br>293B | <br>294B | <br>295B | <br>296B | <br>297B |
| C | <br>290C | <br>291C | <br>292C | <br>293C | <br>294C | <br>295C | <br>296C | <br>297C |
| D | <br>290D | <br>291D | <br>292D | <br>293D | <br>294D | <br>295D | <br>296D | <br>297D |
| E | <br>290E | <br>291E | <br>292E | <br>293E | <br>294E | <br>295E | <br>296E | <br>297E |
| F | <br>290F | <br>291F | <br>292F | <br>293F | <br>294F | <br>295F | <br>296F | <br>297F |

G = 00  
P = 00

Table 83 - Row 29: Supplemental Arrows-B

| HEX  | NAME                                                              | HEX  | NAME                                                                      |
|------|-------------------------------------------------------------------|------|---------------------------------------------------------------------------|
| 2900 | RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE                  | 295D | DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR                                |
| 2901 | RIGHTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE           | 295E | LEFTWARDS HARPOON WITH BARB DOWN FROM BAR                                 |
| 2902 | LEFTWARDS DOUBLE ARROW WITH VERTICAL STROKE                       | 295F | RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR                                |
| 2903 | RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE                      | 2960 | UPWARDS HARPOON WITH BARB LEFT FROM BAR                                   |
| 2904 | LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE                      | 2961 | DOWNWARDS HARPOON WITH BARB LEFT FROM BAR                                 |
| 2905 | RIGHTWARDS TWO-HEADED ARROW FROM BAR                              | 2962 | LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN     |
| 2906 | LEFTWARDS DOUBLE ARROW FROM BAR                                   | 2963 | UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT     |
| 2907 | RIGHTWARDS DOUBLE ARROW FROM BAR                                  | 2964 | RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN   |
| 2908 | DOWNWARDS ARROW WITH HORIZONTAL STROKE                            | 2965 | DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT |
| 2909 | UPWARDS ARROW WITH HORIZONTAL STROKE                              | 2966 | LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP      |
| 290A | UPWARDS TRIPLE ARROW                                              | 2967 | LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN  |
| 290B | DOWNWARDS TRIPLE ARROW                                            | 2968 | RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB UP      |
| 290C | LEFTWARDS DOUBLE DASH ARROW                                       | 2969 | RIGHTWARDS HARPOON WITH BARB DOWN ABOVE LEFTWARDS HARPOON WITH BARB DOWN  |
| 290D | RIGHTWARDS DOUBLE DASH ARROW                                      | 296A | LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH                            |
| 290E | LEFTWARDS TRIPLE DASH ARROW                                       | 296B | LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH                          |
| 290F | RIGHTWARDS TRIPLE DASH ARROW                                      | 296C | RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH                           |
| 2910 | RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW                           | 296D | RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH                         |
| 2911 | RIGHTWARDS ARROW WITH DOTTED STEM                                 | 296E | UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT   |
| 2912 | UPWARDS ARROW TO BAR                                              | 296F | DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT   |
| 2913 | DOWNWARDS ARROW TO BAR                                            | 2970 | RIGHT DOUBLE ARROW WITH ROUNDED HEAD                                      |
| 2914 | RIGHTWARDS ARROW WITH TAIL WITH VERTICAL STROKE                   | 2971 | EQUALS SIGN ABOVE RIGHTWARDS ARROW                                        |
| 2915 | RIGHTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE            | 2972 | TILDE OPERATOR ABOVE RIGHTWARDS ARROW                                     |
| 2916 | RIGHTWARDS TWO-HEADED ARROW WITH TAIL                             | 2973 | LEFTWARDS ARROW ABOVE TILDE OPERATOR                                      |
| 2917 | RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE        | 2974 | RIGHTWARDS ARROW ABOVE TILDE OPERATOR                                     |
| 2918 | RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE | 2975 | RIGHTWARDS ARROW ABOVE ALMOST EQUAL TO                                    |
| 2919 | LEFTWARDS ARROW-TAIL                                              | 2976 | LESS-THAN ABOVE LEFTWARDS ARROW                                           |
| 291A | RIGHTWARDS ARROW-TAIL                                             | 2977 | LEFTWARDS ARROW THROUGH LESS-THAN                                         |
| 291B | LEFTWARDS DOUBLE ARROW-TAIL                                       | 2978 | GREATER-THAN ABOVE RIGHTWARDS ARROW                                       |
| 291C | RIGHTWARDS DOUBLE ARROW-TAIL                                      | 2979 | SUBSET ABOVE RIGHTWARDS ARROW                                             |
| 291D | LEFTWARDS ARROW TO BLACK DIAMOND                                  | 297A | LEFTWARDS ARROW THROUGH SUBSET                                            |
| 291E | RIGHTWARDS ARROW TO BLACK DIAMOND                                 | 297B | SUPERSET ABOVE LEFTWARDS ARROW                                            |
| 291F | LEFTWARDS ARROW FROM BAR TO BLACK DIAMOND                         | 297C | LEFT FISH TAIL                                                            |
| 2920 | RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND                        | 297D | RIGHT FISH TAIL                                                           |
| 2921 | NORTH WEST AND SOUTH EAST ARROW                                   | 297E | UP FISH TAIL                                                              |
| 2922 | NORTH EAST AND SOUTH WEST ARROW                                   | 297F | DOWN FISH TAIL                                                            |
| 2923 | NORTH WEST ARROW WITH HOOK                                        |      |                                                                           |
| 2924 | NORTH EAST ARROW WITH HOOK                                        |      |                                                                           |
| 2925 | SOUTH EAST ARROW WITH HOOK                                        |      |                                                                           |
| 2926 | SOUTH WEST ARROW WITH HOOK                                        |      |                                                                           |
| 2927 | NORTH WEST ARROW AND NORTH EAST ARROW                             |      |                                                                           |
| 2928 | NORTH EAST ARROW AND SOUTH EAST ARROW                             |      |                                                                           |
| 2929 | SOUTH EAST ARROW AND SOUTH WEST ARROW                             |      |                                                                           |
| 292A | SOUTH WEST ARROW AND NORTH WEST ARROW                             |      |                                                                           |
| 292B | RISEING DIAGONAL CROSSING FALLING DIAGONAL                        |      |                                                                           |
| 292C | FALLING DIAGONAL CROSSING RISEING DIAGONAL                        |      |                                                                           |
| 292D | SOUTH EAST ARROW CROSSING NORTH EAST ARROW                        |      |                                                                           |
| 292E | NORTH EAST ARROW CROSSING SOUTH EAST ARROW                        |      |                                                                           |
| 292F | FALLING DIAGONAL CROSSING NORTH EAST ARROW                        |      |                                                                           |
| 2930 | RISEING DIAGONAL CROSSING SOUTH EAST ARROW                        |      |                                                                           |
| 2931 | NORTH EAST ARROW CROSSING NORTH WEST ARROW                        |      |                                                                           |
| 2932 | NORTH WEST ARROW CROSSING NORTH EAST ARROW                        |      |                                                                           |
| 2933 | WAVE ARROW POINTING DIRECTLY RIGHT                                |      |                                                                           |
| 2934 | ARROW POINTING RIGHTWARDS THEN CURVING UPWARDS                    |      |                                                                           |
| 2935 | ARROW POINTING RIGHTWARDS THEN CURVING DOWNWARDS                  |      |                                                                           |
| 2936 | ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS                   |      |                                                                           |
| 2937 | ARROW POINTING DOWNWARDS THEN CURVING RIGHTWARDS                  |      |                                                                           |
| 2938 | RIGHT-SIDE ARC CLOCKWISE ARROW                                    |      |                                                                           |
| 2939 | LEFT-SIDE ARC ANTICLOCKWISE ARROW                                 |      |                                                                           |
| 293A | TOP ARC ANTICLOCKWISE ARROW                                       |      |                                                                           |
| 293B | BOTTOM ARC ANTICLOCKWISE ARROW                                    |      |                                                                           |
| 293C | TOP ARC CLOCKWISE ARROW WITH MINUS                                |      |                                                                           |
| 293D | TOP ARC ANTICLOCKWISE ARROW WITH PLUS                             |      |                                                                           |
| 293E | LOWER RIGHT SEMICIRCULAR CLOCKWISE ARROW                          |      |                                                                           |
| 293F | LOWER LEFT SEMICIRCULAR ANTICLOCKWISE ARROW                       |      |                                                                           |
| 2940 | ANTICLOCKWISE CLOSED CIRCLE ARROW                                 |      |                                                                           |
| 2941 | CLOCKWISE CLOSED CIRCLE ARROW                                     |      |                                                                           |
| 2942 | RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW                      |      |                                                                           |
| 2943 | LEFTWARDS ARROW ABOVE SHORT RIGHTWARDS ARROW                      |      |                                                                           |
| 2944 | SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW                      |      |                                                                           |
| 2945 | RIGHTWARDS ARROW WITH PLUS BELOW                                  |      |                                                                           |
| 2946 | LEFTWARDS ARROW WITH PLUS BELOW                                   |      |                                                                           |
| 2947 | RIGHTWARDS ARROW THROUGH X                                        |      |                                                                           |
| 2948 | LEFT RIGHT ARROW THROUGH SMALL CIRCLE                             |      |                                                                           |
| 2949 | UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE                        |      |                                                                           |
| 294A | LEFT BARB UP RIGHT BARB DOWN HARPOON                              |      |                                                                           |
| 294B | LEFT BARB DOWN RIGHT BARB UP HARPOON                              |      |                                                                           |
| 294C | UP BARB RIGHT DOWN BARB LEFT HARPOON                              |      |                                                                           |
| 294D | UP BARB LEFT DOWN BARB RIGHT HARPOON                              |      |                                                                           |
| 294E | LEFT BARB UP RIGHT BARB UP HARPOON                                |      |                                                                           |
| 294F | UP BARB RIGHT DOWN BARB RIGHT HARPOON                             |      |                                                                           |
| 2950 | LEFT BARB DOWN RIGHT BARB DOWN HARPOON                            |      |                                                                           |
| 2951 | UP BARB LEFT DOWN BARB LEFT HARPOON                               |      |                                                                           |
| 2952 | LEFTWARDS HARPOON WITH BARB UP TO BAR                             |      |                                                                           |
| 2953 | RIGHTWARDS HARPOON WITH BARB UP TO BAR                            |      |                                                                           |
| 2954 | UPWARDS HARPOON WITH BARB RIGHT TO BAR                            |      |                                                                           |
| 2955 | DOWNWARDS HARPOON WITH BARB RIGHT TO BAR                          |      |                                                                           |
| 2956 | LEFTWARDS HARPOON WITH BARB DOWN TO BAR                           |      |                                                                           |
| 2957 | RIGHTWARDS HARPOON WITH BARB DOWN TO BAR                          |      |                                                                           |
| 2958 | UPWARDS HARPOON WITH BARB LEFT TO BAR                             |      |                                                                           |
| 2959 | DOWNWARDS HARPOON WITH BARB LEFT TO BAR                           |      |                                                                           |
| 295A | LEFTWARDS HARPOON WITH BARB UP FROM BAR                           |      |                                                                           |
| 295B | RIGHTWARDS HARPOON WITH BARB UP FROM BAR                          |      |                                                                           |
| 295C | UPWARDS HARPOON WITH BARB RIGHT FROM BAR                          |      |                                                                           |

Group 00

Plane 00

Row 29

**Table 84 - Row 29: Miscellaneous Mathematical Symbols-B**

|   | 298                                                                                         | 299                                                                                         | 29A                                                                                         | 29B                                                                                         | 29C                                                                                         | 29D                                                                                         | 29E                                                                                         | 29F                                                                                           |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 0 | <br>2980   | <br>2990   | <br>29A0   | <br>29B0   | <br>29C0   | <br>29D0   | <br>29E0   | <br>29F0   |
| 1 | <br>2981   | <br>2991   | <br>29A1   | <br>29B1   | <br>29C1   | <br>29D1   | <br>29E1   | <br>29F1   |
| 2 | <br>2982   | <br>2992   | <br>29A2   | <br>29B2   | <br>29C2   | <br>29D2   | <br>29E2   | <br>29F2   |
| 3 | <br>2983   | <br>2993   | <br>29A3   | <br>29B3   | <br>29C3   | <br>29D3   | <br>29E3   | <br>29F3   |
| 4 | <br>2984   | <br>2994   | <br>29A4   | <br>29B4   | <br>29C4   | <br>29D4   | <br>29E4   | <br>29F4   |
| 5 | <br>2985   | <br>2995   | <br>29A5   | <br>29B5   | <br>29C5   | <br>29D5   | <br>29E5   | <br>29F5   |
| 6 | <br>2986   | <br>2996   | <br>29A6   | <br>29B6   | <br>29C6   | <br>29D6   | <br>29E6   | <br>29F6   |
| 7 | <br>2987 | <br>2997 | <br>29A7 | <br>29B7 | <br>29C7 | <br>29D7 | <br>29E7 | <br>29F7 |
| 8 | <br>2988 | <br>2998 | <br>29A8 | <br>29B8 | <br>29C8 | <br>29D8 | <br>29E8 | <br>29F8 |
| 9 | <br>2989 | <br>2999 | <br>29A9 | <br>29B9 | <br>29C9 | <br>29D9 | <br>29E9 | <br>29F9 |
| A | <br>298A | <br>299A | <br>29AA | <br>29BA | <br>29CA | <br>29DA | <br>29EA | <br>29FA |
| B | <br>298B | <br>299B | <br>29AB | <br>29BB | <br>29CB | <br>29DB | <br>29EB | <br>29FB |
| C | <br>298C | <br>299C | <br>29AC | <br>29BC | <br>29CC | <br>29DC | <br>29EC | <br>29FC |
| D | <br>298D | <br>299D | <br>29AD | <br>29BD | <br>29CD | <br>29DD | <br>29ED | <br>29FD |
| E | <br>298E | <br>299E | <br>29AE | <br>29BE | <br>29CE | <br>29DE | <br>29EE | <br>29FE |
| F | <br>298F | <br>299F | <br>29AF | <br>29BF | <br>29CF | <br>29DF | <br>29EF | <br>29FF |

G = 00  
P = 00

Table 84 - Row 29: Miscellaneous Mathematical Symbols-B

| HEX  | NAME                                                                  | HEX  | NAME                                              |
|------|-----------------------------------------------------------------------|------|---------------------------------------------------|
| 2980 | TRIPLE VERTICAL BAR DELIMITER                                         | 29DD | TIE OVER INFINITY                                 |
| 2981 | Z NOTATION SPOT                                                       | 29DE | INFINITY NEGATED WITH VERTICAL BAR                |
| 2982 | Z NOTATION TYPE COLON                                                 | 29DF | DOUBLE-ENDED MULTIMAP                             |
| 2983 | LEFT WHITE CURLY BRACKET                                              | 29E0 | SQUARE WITH CONTOURED OUTLINE                     |
| 2984 | RIGHT WHITE CURLY BRACKET                                             | 29E1 | INCREASES AS                                      |
| 2985 | LEFT WHITE PARENTHESIS                                                | 29E2 | SHUFFLE PRODUCT                                   |
| 2986 | RIGHT WHITE PARENTHESIS                                               | 29E3 | EQUALS SIGN AND SLANTED PARALLEL                  |
| 2987 | Z NOTATION LEFT IMAGE BRACKET                                         | 29E4 | EQUALS SIGN AND SLANTED PARALLEL WITH TILDE ABOVE |
| 2988 | Z NOTATION RIGHT IMAGE BRACKET                                        | 29E5 | IDENTICAL TO AND SLANTED PARALLEL                 |
| 2989 | Z NOTATION LEFT BINDING BRACKET                                       | 29E6 | GLEICH STARK                                      |
| 298A | Z NOTATION RIGHT BINDING BRACKET                                      | 29E7 | THERMODYNAMIC                                     |
| 298B | LEFT SQUARE BRACKET WITH UNDERBAR                                     | 29E8 | DOWN-POINTING TRIANGLE WITH LEFT HALF BLACK       |
| 298C | RIGHT SQUARE BRACKET WITH UNDERBAR                                    | 29E9 | DOWN-POINTING TRIANGLE WITH RIGHT HALF BLACK      |
| 298D | LEFT SQUARE BRACKET WITH TICK IN TOP CORNER                           | 29EA | BLACK DIAMOND WITH DOWN ARROW                     |
| 298E | RIGHT SQUARE BRACKET WITH TICK IN BOTTOM CORNER                       | 29EB | BLACK LOZENGE                                     |
| 298F | LEFT SQUARE BRACKET WITH TICK IN BOTTOM CORNER                        | 29EC | WHITE CIRCLE WITH DOWN ARROW                      |
| 2990 | RIGHT SQUARE BRACKET WITH TICK IN TOP CORNER                          | 29ED | BLACK CIRCLE WITH DOWN ARROW                      |
| 2991 | LEFT ANGLE BRACKET WITH DOT                                           | 29EE | ERROR-BARRED WHITE SQUARE                         |
| 2992 | RIGHT ANGLE BRACKET WITH DOT                                          | 29EF | ERROR-BARRED WHITE SQUARE                         |
| 2993 | LEFT ARC LESS-THAN BRACKET                                            | 29F0 | ERROR-BARRED WHITE DIAMOND                        |
| 2994 | RIGHT ARC GREATER-THAN BRACKET                                        | 29F1 | ERROR-BARRED BLACK DIAMOND                        |
| 2995 | DOUBLE LEFT ARC GREATER-THAN BRACKET                                  | 29F2 | ERROR-BARRED WHITE CIRCLE                         |
| 2996 | DOUBLE RIGHT ARC LESS-THAN BRACKET                                    | 29F3 | ERROR-BARRED BLACK CIRCLE                         |
| 2997 | LEFT BLACK TORTOISE SHELL BRACKET                                     | 29F4 | RULE-DELAYED                                      |
| 2998 | RIGHT BLACK TORTOISE SHELL BRACKET                                    | 29F5 | REVERSE SOLIDUS OPERATOR                          |
| 2999 | DOTTED FENCE                                                          | 29F6 | SOLIDUS WITH OVERBAR                              |
| 299A | VERTICAL ZIGZAG LINE                                                  | 29F7 | REVERSE SOLIDUS WITH HORIZONTAL STROKE            |
| 299B | MEASURED ANGLE OPENING LEFT                                           | 29F8 | BIG SOLIDUS                                       |
| 299C | RIGHT ANGLE VARIANT WITH SQUARE                                       | 29F9 | BIG REVERSE SOLIDUS                               |
| 299D | MEASURED RIGHT ANGLE WITH DOT                                         | 29FA | DOUBLE PLUS                                       |
| 299E | ANGLE WITH S INSIDE                                                   | 29FB | TRIPLE PLUS                                       |
| 299F | ACUTE ANGLE                                                           | 29FC | LEFT-POINTING CURVED ANGLE BRACKET                |
| 29A0 | SPHERICAL ANGLE OPENING LEFT                                          | 29FD | RIGHT-POINTING CURVED ANGLE BRACKET               |
| 29A1 | SPHERICAL ANGLE OPENING UP                                            | 29FE | TINY                                              |
| 29A2 | TURNED ANGLE                                                          | 29FF | MINY                                              |
| 29A3 | REVERSED ANGLE                                                        |      |                                                   |
| 29A4 | ANGLE WITH UNDERBAR                                                   |      |                                                   |
| 29A5 | REVERSED ANGLE WITH UNDERBAR                                          |      |                                                   |
| 29A6 | OBLIQUE ANGLE OPENING UP                                              |      |                                                   |
| 29A7 | OBLIQUE ANGLE OPENING DOWN                                            |      |                                                   |
| 29A8 | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND RIGHT    |      |                                                   |
| 29A9 | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND LEFT     |      |                                                   |
| 29AA | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND RIGHT  |      |                                                   |
| 29AB | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND LEFT   |      |                                                   |
| 29AC | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND UP    |      |                                                   |
| 29AD | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND UP     |      |                                                   |
| 29AE | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND DOWN  |      |                                                   |
| 29AF | MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND DOWN   |      |                                                   |
| 29B0 | REVERSED EMPTY SET                                                    |      |                                                   |
| 29B1 | EMPTY SET WITH OVERBAR                                                |      |                                                   |
| 29B2 | EMPTY SET WITH SMALL CIRCLE ABOVE                                     |      |                                                   |
| 29B3 | EMPTY SET WITH RIGHT ARROW ABOVE                                      |      |                                                   |
| 29B4 | EMPTY SET WITH LEFT ARROW ABOVE                                       |      |                                                   |
| 29B5 | CIRCLE WITH HORIZONTAL BAR                                            |      |                                                   |
| 29B6 | CIRCLED VERTICAL BAR                                                  |      |                                                   |
| 29B7 | CIRCLED PARALLEL                                                      |      |                                                   |
| 29B8 | CIRCLED REVERSE SOLIDUS                                               |      |                                                   |
| 29B9 | CIRCLED PERPENDICULAR                                                 |      |                                                   |
| 29BA | CIRCLE DIVIDED BY HORIZONTAL BAR AND TOP HALF DIVIDED BY VERTICAL BAR |      |                                                   |
| 29BB | CIRCLE WITH SUPERIMPOSED X                                            |      |                                                   |
| 29BC | CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN                           |      |                                                   |
| 29BD | UP ARROW THROUGH CIRCLE                                               |      |                                                   |
| 29BE | CIRCLED WHITE BULLET                                                  |      |                                                   |
| 29BF | CIRCLED BULLET                                                        |      |                                                   |
| 29C0 | CIRCLED LESS-THAN                                                     |      |                                                   |
| 29C1 | CIRCLED GREATER-THAN                                                  |      |                                                   |
| 29C2 | CIRCLE WITH SMALL CIRCLE TO THE RIGHT                                 |      |                                                   |
| 29C3 | CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT                       |      |                                                   |
| 29C4 | SQUARED RISING DIAGONAL SLASH                                         |      |                                                   |
| 29C5 | SQUARED FALLING DIAGONAL SLASH                                        |      |                                                   |
| 29C6 | SQUARED ASTERISK                                                      |      |                                                   |
| 29C7 | SQUARED SMALL CIRCLE                                                  |      |                                                   |
| 29C8 | SQUARED SQUARE                                                        |      |                                                   |
| 29C9 | TWO JOINED SQUARES                                                    |      |                                                   |
| 29CA | TRIANGLE WITH DOT ABOVE                                               |      |                                                   |
| 29CB | TRIANGLE WITH UNDERBAR                                                |      |                                                   |
| 29CC | S IN TRIANGLE                                                         |      |                                                   |
| 29CD | TRIANGLE WITH SERIFS AT BOTTOM                                        |      |                                                   |
| 29CE | RIGHT TRIANGLE ABOVE LEFT TRIANGLE                                    |      |                                                   |
| 29CF | LEFT TRIANGLE BESIDE VERTICAL BAR                                     |      |                                                   |
| 29D0 | VERTICAL BAR BESIDE RIGHT TRIANGLE                                    |      |                                                   |
| 29D1 | BOWTIE WITH LEFT HALF BLACK                                           |      |                                                   |
| 29D2 | BOWTIE WITH RIGHT HALF BLACK                                          |      |                                                   |
| 29D3 | BLACK BOWTIE                                                          |      |                                                   |
| 29D4 | TIMES WITH LEFT HALF BLACK                                            |      |                                                   |
| 29D5 | TIMES WITH RIGHT HALF BLACK                                           |      |                                                   |
| 29D6 | WHITE HOURGLASS                                                       |      |                                                   |
| 29D7 | BLACK HOURGLASS                                                       |      |                                                   |
| 29D8 | LEFT WIGGLY FENCE                                                     |      |                                                   |
| 29D9 | RIGHT WIGGLY FENCE                                                    |      |                                                   |
| 29DA | LEFT DOUBLE WIGGLY FENCE                                              |      |                                                   |
| 29DB | RIGHT DOUBLE WIGGLY FENCE                                             |      |                                                   |
| 29DC | INCOMPLETE INFINITY                                                   |      |                                                   |

Group 00

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Row 29

Table 85 - Row 2A: Supplemental Mathematical Operators

|   | 2A0                                                                                         | 2A1                                                                                         | 2A2                                                                                         | 2A3                                                                                         | 2A4                                                                                         | 2A5                                                                                         | 2A6                                                                                           | 2A7                                                                                           |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 0 | <br>2A00   | <br>2A10   | <br>2A20   | <br>2A30   | <br>2A40   | <br>2A50   | <br>2A60   | <br>2A70   |
| 1 | <br>2A01   | <br>2A11   | <br>2A21   | <br>2A31   | <br>2A41   | <br>2A51   | <br>2A61   | <br>2A71   |
| 2 | <br>2A02   | <br>2A12   | <br>2A22   | <br>2A32   | <br>2A42   | <br>2A52   | <br>2A62   | <br>2A72   |
| 3 | <br>2A03   | <br>2A13   | <br>2A23   | <br>2A33   | <br>2A43   | <br>2A53   | <br>2A63   | <br>2A73   |
| 4 | <br>2A04   | <br>2A14   | <br>2A24   | <br>2A34   | <br>2A44   | <br>2A54   | <br>2A64   | <br>2A74   |
| 5 | <br>2A05   | <br>2A15   | <br>2A25   | <br>2A35   | <br>2A45   | <br>2A55   | <br>2A65   | <br>2A75   |
| 6 | <br>2A06  | <br>2A16  | <br>2A26  | <br>2A36  | <br>2A46  | <br>2A56  | <br>2A66  | <br>2A76  |
| 7 | <br>2A07 | <br>2A17 | <br>2A27 | <br>2A37 | <br>2A47 | <br>2A57 | <br>2A67 | <br>2A77 |
| 8 | <br>2A08 | <br>2A18 | <br>2A28 | <br>2A38 | <br>2A48 | <br>2A58 | <br>2A68 | <br>2A78 |
| 9 | <br>2A09 | <br>2A19 | <br>2A29 | <br>2A39 | <br>2A49 | <br>2A59 | <br>2A69 | <br>2A79 |
| A | <br>2A0A | <br>2A1A | <br>2A2A | <br>2A3A | <br>2A4A | <br>2A5A | <br>2A6A | <br>2A7A |
| B | <br>2A0B | <br>2A1B | <br>2A2B | <br>2A3B | <br>2A4B | <br>2A5B | <br>2A6B | <br>2A7B |
| C | <br>2A0C | <br>2A1C | <br>2A2C | <br>2A3C | <br>2A4C | <br>2A5C | <br>2A6C | <br>2A7C |
| D | <br>2A0D | <br>2A1D | <br>2A2D | <br>2A3D | <br>2A4D | <br>2A5D | <br>2A6D | <br>2A7D |
| E | <br>2A0E | <br>2A1E | <br>2A2E | <br>2A3E | <br>2A4E | <br>2A5E | <br>2A6E | <br>2A7E |
| F | <br>2A0F | <br>2A1F | <br>2A2F | <br>2A3F | <br>2A4F | <br>2A5F | <br>2A6F | <br>2A7F |

G = 00  
P = 00

Table 85 - Row 2A: Supplemental Mathematical Operators

| HEX  | NAME                                                | HEX  | NAME                                               |
|------|-----------------------------------------------------|------|----------------------------------------------------|
| 2A00 | N-ARY CIRCLED DOT OPERATOR                          | 2A5D | LOGICAL OR WITH HORIZONTAL DASH                    |
| 2A01 | N-ARY CIRCLED PLUS OPERATOR                         | 2A5E | LOGICAL AND WITH DOUBLE OVERBAR                    |
| 2A02 | N-ARY CIRCLED TIMES OPERATOR                        | 2A5F | LOGICAL AND WITH UNDERBAR                          |
| 2A03 | N-ARY UNION OPERATOR WITH DOT                       | 2A60 | LOGICAL AND WITH DOUBLE UNDERBAR                   |
| 2A04 | N-ARY UNION OPERATOR WITH PLUS                      | 2A61 | SMALL VEE WITH UNDERBAR                            |
| 2A05 | N-ARY SQUARE INTERSECTION OPERATOR                  | 2A62 | LOGICAL OR WITH DOUBLE OVERBAR                     |
| 2A06 | N-ARY SQUARE UNION OPERATOR                         | 2A63 | LOGICAL OR WITH DOUBLE UNDERBAR                    |
| 2A07 | TWO LOGICAL AND OPERATOR                            | 2A64 | Z NOTATION DOMAIN ANTIRESTRICTION                  |
| 2A08 | TWO LOGICAL OR OPERATOR                             | 2A65 | Z NOTATION RANGE ANTIRESTRICTION                   |
| 2A09 | N-ARY TIMES OPERATOR                                | 2A66 | EQUALS SIGN WITH DOT BELOW                         |
| 2A0A | MODULO TWO SUM                                      | 2A67 | IDENTICAL WITH DOT ABOVE                           |
| 2A0B | SUMMATION WITH INTEGRAL                             | 2A68 | TRIPLE HORIZONTAL BAR WITH DOUBLE VERTICAL STROKE  |
| 2A0C | QUADRUPLE INTEGRAL OPERATOR                         | 2A69 | TRIPLE HORIZONTAL BAR WITH TRIPLE VERTICAL STROKE  |
| 2A0D | FINITE PART INTEGRAL                                | 2A6A | TILDE OPERATOR WITH DOT ABOVE                      |
| 2A0E | INTEGRAL WITH DOUBLE STROKE                         | 2A6B | TILDE OPERATOR WITH RISING DOTS                    |
| 2A0F | INTEGRAL AVERAGE WITH SLASH                         | 2A6C | SIMILAR MINUS SIMILAR                              |
| 2A10 | CIRCULATION FUNCTION                                | 2A6D | CONGRUENT WITH DOT ABOVE                           |
| 2A11 | ANTICLOCKWISE INTEGRATION                           | 2A6E | EQUALS WITH ASTERISK                               |
| 2A12 | LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE  | 2A6F | ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT             |
| 2A13 | LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE | 2A70 | APPROXIMATELY EQUAL OR EQUAL TO                    |
| 2A14 | LINE INTEGRATION NOT INCLUDING THE POLE             | 2A71 | EQUALS SIGN ABOVE PLUS SIGN                        |
| 2A15 | INTEGRAL AROUND A POINT OPERATOR                    | 2A72 | PLUS SIGN ABOVE EQUALS SIGN                        |
| 2A16 | QUATERNION INTEGRAL OPERATOR                        | 2A73 | EQUALS SIGN ABOVE TILDE OPERATOR                   |
| 2A17 | INTEGRAL WITH LEFTWARDS ARROW WITH HOOK             | 2A74 | DOUBLE COLON EQUAL                                 |
| 2A18 | INTEGRAL WITH TIMES SIGN                            | 2A75 | TWO CONSECUTIVE EQUALS SIGNS                       |
| 2A19 | INTEGRAL WITH INTERSECTION                          | 2A76 | THREE CONSECUTIVE EQUALS SIGNS                     |
| 2A1A | INTEGRAL WITH UNION                                 | 2A77 | EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW |
| 2A1B | INTEGRAL WITH OVERBAR                               | 2A78 | EQUIVALENT WITH FOUR DOTS ABOVE                    |
| 2A1C | INTEGRAL WITH UNDERBAR                              | 2A79 | LESS-THAN WITH CIRCLE INSIDE                       |
| 2A1D | JOIN                                                | 2A7A | GREATER-THAN WITH CIRCLE INSIDE                    |
| 2A1E | LARGE LEFT TRIANGLE OPERATOR                        | 2A7B | LESS-THAN WITH QUESTION MARK ABOVE                 |
| 2A1F | Z NOTATION SCHEMA COMPOSITION                       | 2A7C | GREATER-THAN WITH QUESTION MARK ABOVE              |
| 2A20 | Z NOTATION SCHEMA PIPING                            | 2A7D | LESS-THAN OR SLANTED EQUAL TO                      |
| 2A21 | Z NOTATION SCHEMA PROJECTION                        | 2A7E | GREATER-THAN OR SLANTED EQUAL TO                   |
| 2A22 | PLUS SIGN WITH SMALL CIRCLE ABOVE                   | 2A7F | LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE      |
| 2A23 | PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE              |      |                                                    |
| 2A24 | PLUS SIGN WITH TILDE ABOVE                          |      |                                                    |
| 2A25 | PLUS SIGN WITH DOT BELOW                            |      |                                                    |
| 2A26 | PLUS SIGN WITH TILDE BELOW                          |      |                                                    |
| 2A27 | PLUS SIGN WITH SUBSCRIPT TWO                        |      |                                                    |
| 2A28 | PLUS SIGN WITH BLACK TRIANGLE                       |      |                                                    |
| 2A29 | MINUS SIGN WITH COMMA ABOVE                         |      |                                                    |
| 2A2A | MINUS SIGN WITH DOT BELOW                           |      |                                                    |
| 2A2B | MINUS SIGN WITH FALLING DOTS                        |      |                                                    |
| 2A2C | MINUS SIGN WITH RISING DOTS                         |      |                                                    |
| 2A2D | PLUS SIGN IN LEFT HALF CIRCLE                       |      |                                                    |
| 2A2E | PLUS SIGN IN RIGHT HALF CIRCLE                      |      |                                                    |
| 2A2F | VECTOR OR CROSS PRODUCT                             |      |                                                    |
| 2A30 | MULTIPLICATION SIGN WITH DOT ABOVE                  |      |                                                    |
| 2A31 | MULTIPLICATION SIGN WITH UNDERBAR                   |      |                                                    |
| 2A32 | SEMDIRECT PRODUCT WITH BOTTOM CLOSED                |      |                                                    |
| 2A33 | SMASH PRODUCT                                       |      |                                                    |
| 2A34 | MULTIPLICATION SIGN IN LEFT HALF CIRCLE             |      |                                                    |
| 2A35 | MULTIPLICATION SIGN IN RIGHT HALF CIRCLE            |      |                                                    |
| 2A36 | CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT  |      |                                                    |
| 2A37 | MULTIPLICATION SIGN IN DOUBLE CIRCLE                |      |                                                    |
| 2A38 | CIRCLED DIVISION SIGN                               |      |                                                    |
| 2A39 | PLUS SIGN IN TRIANGLE                               |      |                                                    |
| 2A3A | MINUS SIGN IN TRIANGLE                              |      |                                                    |
| 2A3B | MULTIPLICATION SIGN IN TRIANGLE                     |      |                                                    |
| 2A3C | INTERIOR PRODUCT                                    |      |                                                    |
| 2A3D | RIGHTHAND INTERIOR PRODUCT                          |      |                                                    |
| 2A3E | Z NOTATION RELATIONAL COMPOSITION                   |      |                                                    |
| 2A3F | AMALGAMATION OR COPRODUCT                           |      |                                                    |
| 2A40 | INTERSECTION WITH DOT                               |      |                                                    |
| 2A41 | UNION WITH MINUS SIGN                               |      |                                                    |
| 2A42 | UNION WITH OVERBAR                                  |      |                                                    |
| 2A43 | INTERSECTION WITH OVERBAR                           |      |                                                    |
| 2A44 | INTERSECTION WITH LOGICAL AND                       |      |                                                    |
| 2A45 | UNION WITH LOGICAL OR                               |      |                                                    |
| 2A46 | UNION ABOVE INTERSECTION                            |      |                                                    |
| 2A47 | INTERSECTION ABOVE UNION                            |      |                                                    |
| 2A48 | UNION ABOVE BAR ABOVE INTERSECTION                  |      |                                                    |
| 2A49 | INTERSECTION ABOVE BAR ABOVE UNION                  |      |                                                    |
| 2A4A | UNION BESIDE AND JOINED WITH UNION                  |      |                                                    |
| 2A4B | INTERSECTION BESIDE AND JOINED WITH INTERSECTION    |      |                                                    |
| 2A4C | CLOSED UNION WITH SERIFS                            |      |                                                    |
| 2A4D | CLOSED INTERSECTION WITH SERIFS                     |      |                                                    |
| 2A4E | DOUBLE SQUARE INTERSECTION                          |      |                                                    |
| 2A4F | DOUBLE SQUARE UNION                                 |      |                                                    |
| 2A50 | CLOSED UNION WITH SERIFS AND SMASH PRODUCT          |      |                                                    |
| 2A51 | LOGICAL AND WITH DOT ABOVE                          |      |                                                    |
| 2A52 | LOGICAL OR WITH DOT ABOVE                           |      |                                                    |
| 2A53 | DOUBLE LOGICAL AND                                  |      |                                                    |
| 2A54 | DOUBLE LOGICAL OR                                   |      |                                                    |
| 2A55 | TWO INTERSECTING LOGICAL AND                        |      |                                                    |
| 2A56 | TWO INTERSECTING LOGICAL OR                         |      |                                                    |
| 2A57 | SLOPING LARGE OR                                    |      |                                                    |
| 2A58 | SLOPING LARGE AND                                   |      |                                                    |
| 2A59 | LOGICAL OR OVERLAPPING LOGICAL AND                  |      |                                                    |
| 2A5A | LOGICAL AND WITH MIDDLE STEM                        |      |                                                    |
| 2A5B | LOGICAL OR WITH MIDDLE STEM                         |      |                                                    |
| 2A5C | LOGICAL AND WITH HORIZONTAL DASH                    |      |                                                    |

Group 00

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Row 2A

**Table 86 - Row 2A: Supplemental Mathematical Operators**

|   | 2A8                                                                                         | 2A9                                                                                         | 2AA                                                                                          | 2AB                                                                                          | 2AC                                                                                          | 2AD                                                                                          | 2AE                                                                                          | 2AF                                                                                            |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 0 | <br>2A80   | <br>2A90   | <br>2AA0    | <br>2AB0    | <br>2AC0    | <br>2AD0    | <br>2AE0    | <br>2AF0    |
| 1 | <br>2A81   | <br>2A91   | <br>2AA1    | <br>2AB1    | <br>2AC1    | <br>2AD1    | <br>2AE1    | <br>2AF1    |
| 2 | <br>2A82   | <br>2A92   | <br>2AA2    | <br>2AB2    | <br>2AC2    | <br>2AD2    | <br>2AE2    | <br>2AF2    |
| 3 | <br>2A83   | <br>2A93   | <br>2AA3    | <br>2AB3    | <br>2AC3    | <br>2AD3    | <br>2AE3    | <br>2AF3    |
| 4 | <br>2A84   | <br>2A94   | <br>2AA4    | <br>2AB4    | <br>2AC4    | <br>2AD4    | <br>2AE4    | <br>2AF4    |
| 5 | <br>2A85   | <br>2A95   | <br>2AA5    | <br>2AB5    | <br>2AC5    | <br>2AD5    | <br>2AE5    | <br>2AF5    |
| 6 | <br>2A86   | <br>2A96   | <br>2AA6    | <br>2AB6    | <br>2AC6    | <br>2AD6    | <br>2AE6    | <br>2AF6    |
| 7 | <br>2A87 | <br>2A97 | <br>2AA7  | <br>2AB7  | <br>2AC7  | <br>2AD7  | <br>2AE7  | <br>2AF7  |
| 8 | <br>2A88 | <br>2A98 | <br>2AA8  | <br>2AB8  | <br>2AC8  | <br>2AD8  | <br>2AE8  | <br>2AF8  |
| 9 | <br>2A89 | <br>2A99 | <br>2AA9  | <br>2AB9  | <br>2AC9  | <br>2AD9  | <br>2AE9  | <br>2AF9  |
| A | <br>2A8A | <br>2A9A | <br>2AA A | <br>2AB A | <br>2AC A | <br>2AD A | <br>2AE A | <br>2AF A |
| B | <br>2A8B | <br>2A9B | <br>2AA B | <br>2AB B | <br>2AC B | <br>2AD B | <br>2AE B | <br>2AF B |
| C | <br>2A8C | <br>2A9C | <br>2AA C | <br>2AB C | <br>2AC C | <br>2AD C | <br>2AE C | <br>2AF C |
| D | <br>2A8D | <br>2A9D | <br>2AA D | <br>2AB D | <br>2AC D | <br>2AD D | <br>2AE D | <br>2AF D |
| E | <br>2A8E | <br>2A9E | <br>2AA E | <br>2AB E | <br>2AC E | <br>2AD E | <br>2AE E | <br>2AF E |
| F | <br>2A8F | <br>2A9F | <br>2AA F | <br>2AB F | <br>2AC F | <br>2AD F | <br>2AE F | <br>2AF F |

G = 00  
P = 00

Table 86 - Row 2A: Supplemental Mathematical Operators

| HEX  | NAME                                                                 | HEX  | NAME                                          |
|------|----------------------------------------------------------------------|------|-----------------------------------------------|
| 2A80 | GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE                     | 2ADD | NONFORKING (independent)                      |
| 2A81 | LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE                         | 2ADE | SHORT LEFT TACK                               |
| 2A82 | GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE                      | 2ADF | SHORT DOWN TACK                               |
| 2A83 | LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT                   | 2AE0 | SHORT UP TACK                                 |
| 2A84 | GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE LEFT                 | 2AE1 | PERPENDICULAR WITH S                          |
| 2A85 | LESS-THAN OR APPROXIMATE                                             | 2AE2 | VERTICAL BAR TRIPLE RIGHT TURNSTILE           |
| 2A86 | GREATER-THAN OR APPROXIMATE                                          | 2AE3 | DOUBLE VERTICAL BAR LEFT TURNSTILE            |
| 2A87 | LESS-THAN AND SINGLE-LINE NOT EQUAL TO                               | 2AE4 | VERTICAL BAR DOUBLE LEFT TURNSTILE            |
| 2A88 | GREATER-THAN AND SINGLE-LINE NOT EQUAL TO                            | 2AE5 | DOUBLE VERTICAL BAR DOUBLE LEFT TURNSTILE     |
| 2A89 | LESS-THAN AND NOT APPROXIMATE                                        | 2AE6 | LONG DASH FROM LEFT MEMBER OF DOUBLE VERTICAL |
| 2A8A | GREATER-THAN AND NOT APPROXIMATE                                     | 2AE7 | SHORT DOWN TACK WITH OVERBAR                  |
| 2A8B | LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN                 | 2AE8 | SHORT UP TACK WITH UNDERBAR                   |
| 2A8C | GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN                 | 2AE9 | SHORT UP TACK ABOVE SHORT DOWN TACK           |
| 2A8D | LESS-THAN ABOVE SIMILAR OR EQUAL                                     | 2AEA | DOUBLE DOWN TACK                              |
| 2A8E | GREATER-THAN ABOVE SIMILAR OR EQUAL                                  | 2AEB | DOUBLE UP TACK                                |
| 2A8F | LESS-THAN ABOVE SIMILAR ABOVE GREATER-THAN                           | 2AEC | DOUBLE STROKE NOT SIGN                        |
| 2A90 | GREATER-THAN ABOVE SIMILAR ABOVE LESS-THAN                           | 2AED | REVERSED DOUBLE STROKE NOT SIGN               |
| 2A91 | LESS-THAN ABOVE GREATER-THAN ABOVE DOUBLE-LINE EQUAL                 | 2AEE | DOES NOT DIVIDE WITH REVERSED NEGATION SLASH  |
| 2A92 | GREATER-THAN ABOVE LESS-THAN ABOVE DOUBLE-LINE EQUAL                 | 2AEF | VERTICAL LINE WITH CIRCLE ABOVE               |
| 2A93 | LESS-THAN ABOVE SLANTED EQUAL ABOVE GREATER-THAN ABOVE SLANTED EQUAL | 2AF0 | VERTICAL LINE WITH CIRCLE BELOW               |
| 2A94 | GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE SLANTED EQUAL | 2AF1 | DOWN TACK WITH CIRCLE BELOW                   |
| 2A95 | SLANTED EQUAL TO OR LESS-THAN                                        | 2AF2 | PARALLEL WITH HORIZONTAL STROKE               |
| 2A96 | SLANTED EQUAL TO OR GREATER-THAN                                     | 2AF3 | PARALLEL WITH TILDE OPERATOR                  |
| 2A97 | SLANTED EQUAL TO OR LESS-THAN WITH DOT INSIDE                        | 2AF4 | TRIPLE VERTICAL BAR BINARY RELATION           |
| 2A98 | SLANTED EQUAL TO OR GREATER-THAN WITH DOT INSIDE                     | 2AF5 | TRIPLE VERTICAL BAR WITH HORIZONTAL STROKE    |
| 2A99 | DOUBLE-LINE EQUAL TO OR LESS-THAN                                    | 2AF6 | TRIPLE COLON OPERATOR                         |
| 2A9A | DOUBLE-LINE EQUAL TO OR GREATER-THAN                                 | 2AF7 | TRIPLE NESTED LESS-THAN                       |
| 2A9B | DOUBLE-LINE SLANTED EQUAL TO OR LESS-THAN                            | 2AF8 | TRIPLE NESTED GREATER-THAN                    |
| 2A9C | DOUBLE-LINE SLANTED EQUAL TO OR GREATER-THAN                         | 2AF9 | DOUBLE-LINE SLANTED LESS-THAN OR EQUAL TO     |
| 2A9D | SIMILAR OR LESS-THAN                                                 | 2AFA | DOUBLE-LINE SLANTED GREATER-THAN OR EQUAL TO  |
| 2A9E | SIMILAR OR GREATER-THAN                                              | 2AFB | TRIPLE SOLIDUS BINARY RELATION                |
| 2A9F | SIMILAR ABOVE LESS-THAN ABOVE EQUALS SIGN                            | 2AFC | LARGE TRIPLE VERTICAL BAR OPERATOR            |
| 2AA0 | SIMILAR ABOVE GREATER-THAN ABOVE EQUALS SIGN                         | 2AFD | DOUBLE SOLIDUS OPERATOR                       |
| 2AA1 | DOUBLE NESTED LESS-THAN                                              | 2AFE | WHITE VERTICAL BAR                            |
| 2AA2 | DOUBLE NESTED GREATER-THAN                                           | 2AFF | N-ARY WHITE VERTICAL BAR                      |
| 2AA3 | DOUBLE NESTED LESS-THAN WITH UNDERBAR                                |      |                                               |
| 2AA4 | GREATER-THAN OVERLAPPING LESS-THAN                                   |      |                                               |
| 2AA5 | GREATER-THAN BESIDE LESS-THAN                                        |      |                                               |
| 2AA6 | LESS-THAN CLOSED BY CURVE                                            |      |                                               |
| 2AA7 | GREATER-THAN CLOSED BY CURVE                                         |      |                                               |
| 2AA8 | LESS-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL                        |      |                                               |
| 2AA9 | GREATER-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL                     |      |                                               |
| 2AAA | SMALLER THAN                                                         |      |                                               |
| 2AAB | LARGER THAN                                                          |      |                                               |
| 2AAC | SMALLER THAN OR EQUAL TO                                             |      |                                               |
| 2AAD | LARGER THAN OR EQUAL TO                                              |      |                                               |
| 2AAE | EQUALS SIGN WITH BUMPY ABOVE                                         |      |                                               |
| 2AAF | PRECEDES ABOVE SINGLE-LINE EQUALS SIGN                               |      |                                               |
| 2AB0 | SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN                               |      |                                               |
| 2AB1 | PRECEDES ABOVE SINGLE-LINE NOT EQUAL TO                              |      |                                               |
| 2AB2 | SUCCEEDS ABOVE SINGLE-LINE NOT EQUAL TO                              |      |                                               |
| 2AB3 | PRECEDES ABOVE EQUALS SIGN                                           |      |                                               |
| 2AB4 | SUCCEEDS ABOVE EQUALS SIGN                                           |      |                                               |
| 2AB5 | PRECEDES ABOVE NOT EQUAL TO                                          |      |                                               |
| 2AB6 | SUCCEEDS ABOVE NOT EQUAL TO                                          |      |                                               |
| 2AB7 | PRECEDES ABOVE ALMOST EQUAL TO                                       |      |                                               |
| 2AB8 | SUCCEEDS ABOVE ALMOST EQUAL TO                                       |      |                                               |
| 2AB9 | PRECEDES ABOVE NOT ALMOST EQUAL TO                                   |      |                                               |
| 2ABA | SUCCEEDS ABOVE NOT ALMOST EQUAL TO                                   |      |                                               |
| 2ABB | DOUBLE PRECEDES                                                      |      |                                               |
| 2ABC | DOUBLE SUCCEEDS                                                      |      |                                               |
| 2ABD | SUBSET WITH DOT                                                      |      |                                               |
| 2ABE | SUPERSET WITH DOT                                                    |      |                                               |
| 2ABF | SUBSET WITH PLUS SIGN BELOW                                          |      |                                               |
| 2AC0 | SUPERSET WITH PLUS SIGN BELOW                                        |      |                                               |
| 2AC1 | SUBSET WITH MULTIPLICATION SIGN BELOW                                |      |                                               |
| 2AC2 | SUPERSET WITH MULTIPLICATION SIGN BELOW                              |      |                                               |
| 2AC3 | SUBSET OF OR EQUAL TO WITH DOT ABOVE                                 |      |                                               |
| 2AC4 | SUPERSET OF OR EQUAL TO WITH DOT ABOVE                               |      |                                               |
| 2AC5 | SUBSET OF ABOVE EQUALS SIGN                                          |      |                                               |
| 2AC6 | SUPERSET OF ABOVE EQUALS SIGN                                        |      |                                               |
| 2AC7 | SUBSET OF ABOVE TILDE OPERATOR                                       |      |                                               |
| 2AC8 | SUPERSET OF ABOVE TILDE OPERATOR                                     |      |                                               |
| 2AC9 | SUBSET OF ABOVE ALMOST EQUAL TO                                      |      |                                               |
| 2ACA | SUPERSET OF ABOVE ALMOST EQUAL TO                                    |      |                                               |
| 2ACB | SUBSET OF ABOVE NOT EQUAL TO                                         |      |                                               |
| 2ACC | SUPERSET OF ABOVE NOT EQUAL TO                                       |      |                                               |
| 2ACD | SQUARE LEFT OPEN BOX OPERATOR                                        |      |                                               |
| 2ACE | SQUARE RIGHT OPEN BOX OPERATOR                                       |      |                                               |
| 2ACF | CLOSED SUBSET                                                        |      |                                               |
| 2AD0 | CLOSED SUPERSET                                                      |      |                                               |
| 2AD1 | CLOSED SUBSET OR EQUAL TO                                            |      |                                               |
| 2AD2 | CLOSED SUPERSET OR EQUAL TO                                          |      |                                               |
| 2AD3 | SUBSET ABOVE SUPERSET                                                |      |                                               |
| 2AD4 | SUPERSET ABOVE SUBSET                                                |      |                                               |
| 2AD5 | SUBSET ABOVE SUBSET                                                  |      |                                               |
| 2AD6 | SUPERSET ABOVE SUPERSET                                              |      |                                               |
| 2AD7 | SUPERSET BESIDE SUBSET                                               |      |                                               |
| 2AD8 | SUPERSET BESIDE AND JOINED BY DASH WITH SUBSET                       |      |                                               |
| 2AD9 | ELEMENT OF OPENING DOWNWARDS                                         |      |                                               |
| 2ADA | PITCHFORK WITH TEE TOP                                               |      |                                               |
| 2ADB | TRANSVERSAL INTERSECTION                                             |      |                                               |
| 2ADC | FORKING (not independent)                                            |      |                                               |

Group 00

Plane 00

Row 2A

Table 91 - Row 30: CJK Symbols and Punctuation

|   | 300                                                                                         | 301                                                                                         | 302                                                                                         | 303                                                                                         |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 0 | <br>3000   | <br>3010   | <br>3020   | <br>3030   |
| 1 | <br>3001   | <br>3011   | <br>3021   | <br>3031   |
| 2 | <br>3002   | <br>3012   | <br>3022   | <br>3032   |
| 3 | <br>3003   | <br>3013   | <br>3023   | <br>3033   |
| 4 | <br>3004   | <br>3014   | <br>3024   | <br>3034   |
| 5 | <br>3005   | <br>3015   | <br>3025   | <br>3035   |
| 6 | <br>3006   | <br>3016   | <br>3026   | <br>3036   |
| 7 | <br>3007 | <br>3017 | <br>3027 | <br>3037 |
| 8 | <br>3008 | <br>3018 | <br>3028 | <br>3038 |
| 9 | <br>3009 | <br>3019 | <br>3029 | <br>3039 |
| A | <br>300A | <br>301A | <br>302A | <br>303A |
| B | <br>300B | <br>301B | <br>302B | <br>303B |
| C | <br>300C | <br>301C | <br>302C | <br>303C |
| D | <br>300D | <br>301D | <br>302D | <br>303D |
| E | <br>300E | <br>301E | <br>302E | <br>303E |
| F | <br>300F | <br>301F | <br>302F | <br>303F |

G = 00  
P = 00

Table 91 - Row 30: CJK Symbols and Punctuation

| HEX  | NAME                                                   | HEX | NAME |
|------|--------------------------------------------------------|-----|------|
| 3000 | IDEOGRAPHIC SPACE                                      |     |      |
| 3001 | IDEOGRAPHIC COMMA                                      |     |      |
| 3002 | IDEOGRAPHIC FULL STOP                                  |     |      |
| 3003 | DITTO MARK                                             |     |      |
| 3004 | JAPANESE INDUSTRIAL STANDARD SYMBOL                    |     |      |
| 3005 | IDEOGRAPHIC ITERATION MARK                             |     |      |
| 3006 | IDEOGRAPHIC CLOSING MARK                               |     |      |
| 3007 | IDEOGRAPHIC NUMBER ZERO                                |     |      |
| 3008 | LEFT ANGLE BRACKET                                     |     |      |
| 3009 | RIGHT ANGLE BRACKET                                    |     |      |
| 300A | LEFT DOUBLE ANGLE BRACKET                              |     |      |
| 300B | RIGHT DOUBLE ANGLE BRACKET                             |     |      |
| 300C | LEFT CORNER BRACKET                                    |     |      |
| 300D | RIGHT CORNER BRACKET                                   |     |      |
| 300E | LEFT WHITE CORNER BRACKET                              |     |      |
| 300F | RIGHT WHITE CORNER BRACKET                             |     |      |
| 3010 | LEFT BLACK LENTICULAR BRACKET                          |     |      |
| 3011 | RIGHT BLACK LENTICULAR BRACKET                         |     |      |
| 3012 | POSTAL MARK                                            |     |      |
| 3013 | GETA MARK                                              |     |      |
| 3014 | LEFT TORTOISE SHELL BRACKET                            |     |      |
| 3015 | RIGHT TORTOISE SHELL BRACKET                           |     |      |
| 3016 | LEFT WHITE LENTICULAR BRACKET                          |     |      |
| 3017 | RIGHT WHITE LENTICULAR BRACKET                         |     |      |
| 3018 | LEFT WHITE TORTOISE SHELL BRACKET                      |     |      |
| 3019 | RIGHT WHITE TORTOISE SHELL BRACKET                     |     |      |
| 301A | LEFT WHITE SQUARE BRACKET                              |     |      |
| 301B | RIGHT WHITE SQUARE BRACKET                             |     |      |
| 301C | WAVE DASH                                              |     |      |
| 301D | REVERSED DOUBLE PRIME QUOTATION MARK                   |     |      |
| 301E | DOUBLE PRIME QUOTATION MARK                            |     |      |
| 301F | LOW DOUBLE PRIME QUOTATION MARK                        |     |      |
| 3020 | POSTAL MARK FACE                                       |     |      |
| 3021 | HANGZHOU NUMERAL ONE                                   |     |      |
| 3022 | HANGZHOU NUMERAL TWO                                   |     |      |
| 3023 | HANGZHOU NUMERAL THREE                                 |     |      |
| 3024 | HANGZHOU NUMERAL FOUR                                  |     |      |
| 3025 | HANGZHOU NUMERAL FIVE                                  |     |      |
| 3026 | HANGZHOU NUMERAL SIX                                   |     |      |
| 3027 | HANGZHOU NUMERAL SEVEN                                 |     |      |
| 3028 | HANGZHOU NUMERAL EIGHT                                 |     |      |
| 3029 | HANGZHOU NUMERAL NINE                                  |     |      |
| 302A | IDEOGRAPHIC LEVEL TONE MARK                            |     |      |
| 302B | IDEOGRAPHIC RISING TONE MARK                           |     |      |
| 302C | IDEOGRAPHIC DEPARTING TONE MARK                        |     |      |
| 302D | IDEOGRAPHIC ENTERING TONE MARK                         |     |      |
| 302E | HANGUL SINGLE DOT TONE MARK                            |     |      |
| 302F | HANGUL DOUBLE DOT TONE MARK                            |     |      |
| 3030 | WAVY DASH                                              |     |      |
| 3031 | VERTICAL KANA REPEAT MARK                              |     |      |
| 3032 | VERTICAL KANA REPEAT WITH VOICED SOUND MARK            |     |      |
| 3033 | VERTICAL KANA REPEAT MARK UPPER HALF                   |     |      |
| 3034 | VERTICAL KANA REPEAT WITH VOICED SOUND MARK UPPER HALF |     |      |
| 3035 | VERTICAL KANA REPEAT MARK LOWER HALF                   |     |      |
| 3036 | CIRCLED POSTAL MARK                                    |     |      |
| 3037 | IDEOGRAPHIC TELEGRAPH LINE FEED SEPARATOR SYMBOL       |     |      |
| 3038 | HANGZHOU NUMERAL TEN                                   |     |      |
| 3039 | HANGZHOU NUMERAL TWENTY                                |     |      |
| 303A | HANGZHOU NUMERAL THIRTY                                |     |      |
| 303B | VERTICAL IDEOGRAPHIC ITERATION MARK                    |     |      |
| 303C | MASU MARK                                              |     |      |
| 303D | PART ALTERNATION MARK                                  |     |      |
| 303E | IDEOGRAPHIC VARIATION INDICATOR                        |     |      |
| 303F | IDEOGRAPHIC HALF FILL SPACE                            |     |      |

Group 00

Plane 00

Row 30

Table 92 - Row 30: Hiragana

|   | 304       | 305       | 306       | 307       | 308       | 309       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 |           | ぐ<br>3050 | だ<br>3060 | ば<br>3070 | む<br>3080 | み<br>3090 |
| 1 | あ<br>3041 | け<br>3051 | ち<br>3061 | ぱ<br>3071 | め<br>3081 | ゑ<br>3091 |
| 2 | ぁ<br>3042 | げ<br>3052 | ぢ<br>3062 | ひ<br>3072 | も<br>3082 | を<br>3092 |
| 3 | い<br>3043 | こ<br>3053 | っ<br>3063 | び<br>3073 | や<br>3083 | ん<br>3093 |
| 4 | い<br>3044 | ご<br>3054 | っ<br>3064 | び<br>3074 | や<br>3084 | う<br>3094 |
| 5 | う<br>3045 | さ<br>3055 | づ<br>3065 | ふ<br>3075 | ゆ<br>3085 | か<br>3095 |
| 6 | う<br>3046 | ざ<br>3056 | て<br>3066 | ぶ<br>3076 | ゆ<br>3086 | け<br>3096 |
| 7 | え<br>3047 | し<br>3057 | で<br>3067 | ふ<br>3077 | よ<br>3087 |           |
| 8 | え<br>3048 | じ<br>3058 | と<br>3068 | へ<br>3078 | よ<br>3088 |           |
| 9 | お<br>3049 | す<br>3059 | ど<br>3069 | べ<br>3079 | ら<br>3089 | ゝ<br>3099 |
| A | お<br>304A | ず<br>305A | な<br>306A | ぺ<br>307A | り<br>308A | ゝ<br>309A |
| B | か<br>304B | せ<br>305B | に<br>306B | ほ<br>307B | る<br>308B | ゝ<br>309B |
| C | が<br>304C | ぜ<br>305C | ぬ<br>306C | ぼ<br>307C | れ<br>308C | ゝ<br>309C |
| D | き<br>304D | そ<br>305D | ね<br>306D | ぽ<br>307D | ろ<br>308D | ゝ<br>309D |
| E | ぎ<br>304E | ぞ<br>305E | の<br>306E | ま<br>307E | わ<br>308E | ゝ<br>309E |
| F | く<br>304F | た<br>305F | は<br>306F | み<br>307F | わ<br>308F | ら<br>309F |

G = 00  
P = 00

Table 92 - Row 30: Hiragana

| HEX  | NAME                                               | HEX  | NAME                           |
|------|----------------------------------------------------|------|--------------------------------|
| 3040 | (This position shall not be used)                  | 309D | HIRAGANA ITERATION MARK        |
| 3041 | HIRAGANA LETTER SMALL A                            | 309E | HIRAGANA VOICED ITERATION MARK |
| 3042 | HIRAGANA LETTER A                                  | 309F | HIRAGANA DIGRAPH YORI          |
| 3043 | HIRAGANA LETTER SMALL I                            |      |                                |
| 3044 | HIRAGANA LETTER I                                  |      |                                |
| 3045 | HIRAGANA LETTER SMALL U                            |      |                                |
| 3046 | HIRAGANA LETTER U                                  |      |                                |
| 3047 | HIRAGANA LETTER SMALL E                            |      |                                |
| 3048 | HIRAGANA LETTER E                                  |      |                                |
| 3049 | HIRAGANA LETTER SMALL O                            |      |                                |
| 304A | HIRAGANA LETTER O                                  |      |                                |
| 304B | HIRAGANA LETTER KA                                 |      |                                |
| 304C | HIRAGANA LETTER GA                                 |      |                                |
| 304D | HIRAGANA LETTER KI                                 |      |                                |
| 304E | HIRAGANA LETTER GI                                 |      |                                |
| 304F | HIRAGANA LETTER KU                                 |      |                                |
| 3050 | HIRAGANA LETTER GU                                 |      |                                |
| 3051 | HIRAGANA LETTER KE                                 |      |                                |
| 3052 | HIRAGANA LETTER GE                                 |      |                                |
| 3053 | HIRAGANA LETTER KO                                 |      |                                |
| 3054 | HIRAGANA LETTER GO                                 |      |                                |
| 3055 | HIRAGANA LETTER SA                                 |      |                                |
| 3056 | HIRAGANA LETTER ZA                                 |      |                                |
| 3057 | HIRAGANA LETTER SI                                 |      |                                |
| 3058 | HIRAGANA LETTER ZI                                 |      |                                |
| 3059 | HIRAGANA LETTER SU                                 |      |                                |
| 305A | HIRAGANA LETTER ZU                                 |      |                                |
| 305B | HIRAGANA LETTER SE                                 |      |                                |
| 305C | HIRAGANA LETTER ZE                                 |      |                                |
| 305D | HIRAGANA LETTER SO                                 |      |                                |
| 305E | HIRAGANA LETTER ZO                                 |      |                                |
| 305F | HIRAGANA LETTER TA                                 |      |                                |
| 3060 | HIRAGANA LETTER DA                                 |      |                                |
| 3061 | HIRAGANA LETTER TI                                 |      |                                |
| 3062 | HIRAGANA LETTER DI                                 |      |                                |
| 3063 | HIRAGANA LETTER SMALL TU                           |      |                                |
| 3064 | HIRAGANA LETTER TU                                 |      |                                |
| 3065 | HIRAGANA LETTER DU                                 |      |                                |
| 3066 | HIRAGANA LETTER TE                                 |      |                                |
| 3067 | HIRAGANA LETTER DE                                 |      |                                |
| 3068 | HIRAGANA LETTER TO                                 |      |                                |
| 3069 | HIRAGANA LETTER DO                                 |      |                                |
| 306A | HIRAGANA LETTER NA                                 |      |                                |
| 306B | HIRAGANA LETTER NI                                 |      |                                |
| 306C | HIRAGANA LETTER NU                                 |      |                                |
| 306D | HIRAGANA LETTER NE                                 |      |                                |
| 306E | HIRAGANA LETTER NO                                 |      |                                |
| 306F | HIRAGANA LETTER HA                                 |      |                                |
| 3070 | HIRAGANA LETTER BA                                 |      |                                |
| 3071 | HIRAGANA LETTER PA                                 |      |                                |
| 3072 | HIRAGANA LETTER HI                                 |      |                                |
| 3073 | HIRAGANA LETTER BI                                 |      |                                |
| 3074 | HIRAGANA LETTER PI                                 |      |                                |
| 3075 | HIRAGANA LETTER HU                                 |      |                                |
| 3076 | HIRAGANA LETTER BU                                 |      |                                |
| 3077 | HIRAGANA LETTER PU                                 |      |                                |
| 3078 | HIRAGANA LETTER HE                                 |      |                                |
| 3079 | HIRAGANA LETTER BE                                 |      |                                |
| 307A | HIRAGANA LETTER PE                                 |      |                                |
| 307B | HIRAGANA LETTER HO                                 |      |                                |
| 307C | HIRAGANA LETTER BO                                 |      |                                |
| 307D | HIRAGANA LETTER PO                                 |      |                                |
| 307E | HIRAGANA LETTER MA                                 |      |                                |
| 307F | HIRAGANA LETTER MI                                 |      |                                |
| 3080 | HIRAGANA LETTER MU                                 |      |                                |
| 3081 | HIRAGANA LETTER ME                                 |      |                                |
| 3082 | HIRAGANA LETTER MO                                 |      |                                |
| 3083 | HIRAGANA LETTER SMALL YA                           |      |                                |
| 3084 | HIRAGANA LETTER YA                                 |      |                                |
| 3085 | HIRAGANA LETTER SMALL YU                           |      |                                |
| 3086 | HIRAGANA LETTER YU                                 |      |                                |
| 3087 | HIRAGANA LETTER SMALL YO                           |      |                                |
| 3088 | HIRAGANA LETTER YO                                 |      |                                |
| 3089 | HIRAGANA LETTER RA                                 |      |                                |
| 308A | HIRAGANA LETTER RI                                 |      |                                |
| 308B | HIRAGANA LETTER RU                                 |      |                                |
| 308C | HIRAGANA LETTER RE                                 |      |                                |
| 308D | HIRAGANA LETTER RO                                 |      |                                |
| 308E | HIRAGANA LETTER SMALL WA                           |      |                                |
| 308F | HIRAGANA LETTER WA                                 |      |                                |
| 3090 | HIRAGANA LETTER WI                                 |      |                                |
| 3091 | HIRAGANA LETTER WE                                 |      |                                |
| 3092 | HIRAGANA LETTER WO                                 |      |                                |
| 3093 | HIRAGANA LETTER N                                  |      |                                |
| 3094 | HIRAGANA LETTER VU                                 |      |                                |
| 3095 | HIRAGANA LETTER SMALL KA                           |      |                                |
| 3096 | HIRAGANA LETTER SMALL KE                           |      |                                |
| 3097 | (This position shall not be used)                  |      |                                |
| 3098 | (This position shall not be used)                  |      |                                |
| 3099 | COMBINING KATAKANA-HIRAGANA VOICED SOUND MARK      |      |                                |
| 309A | COMBINING KATAKANA-HIRAGANA SEMI-VOICED SOUND MARK |      |                                |
| 309B | KATAKANA-HIRAGANA VOICED SOUND MARK                |      |                                |
| 309C | KATAKANA-HIRAGANA SEMI-VOICED SOUND MARK           |      |                                |

Group 00

Plane 00

Row 30

Table 93 - Row 30: Katakana

|   | 30A       | 30B       | 30C       | 30D       | 30E       | 30F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | ＝<br>30A0 | グ<br>30B0 | ダ<br>30C0 | バ<br>30D0 | ム<br>30E0 | ヰ<br>30F0 |
| 1 | ア<br>30A1 | ケ<br>30B1 | チ<br>30C1 | パ<br>30D1 | メ<br>30E1 | エ<br>30F1 |
| 2 | ア<br>30A2 | ゲ<br>30B2 | ヂ<br>30C2 | ヒ<br>30D2 | モ<br>30E2 | ヲ<br>30F2 |
| 3 | イ<br>30A3 | コ<br>30B3 | ツ<br>30C3 | ビ<br>30D3 | ヤ<br>30E3 | ン<br>30F3 |
| 4 | イ<br>30A4 | ゴ<br>30B4 | ツ<br>30C4 | ピ<br>30D4 | ヤ<br>30E4 | ヴ<br>30F4 |
| 5 | ウ<br>30A5 | サ<br>30B5 | ヅ<br>30C5 | フ<br>30D5 | ユ<br>30E5 | カ<br>30F5 |
| 6 | ウ<br>30A6 | ザ<br>30B6 | テ<br>30C6 | ブ<br>30D6 | ユ<br>30E6 | ケ<br>30F6 |
| 7 | エ<br>30A7 | シ<br>30B7 | デ<br>30C7 | プ<br>30D7 | ヨ<br>30E7 | ワ<br>30F7 |
| 8 | エ<br>30A8 | ジ<br>30B8 | ト<br>30C8 | ヘ<br>30D8 | ヨ<br>30E8 | ギ<br>30F8 |
| 9 | オ<br>30A9 | ス<br>30B9 | ド<br>30C9 | ベ<br>30D9 | ラ<br>30E9 | ヱ<br>30F9 |
| A | オ<br>30AA | ズ<br>30BA | ナ<br>30CA | ペ<br>30DA | リ<br>30EA | ヲ<br>30FA |
| B | カ<br>30AB | セ<br>30BB | ニ<br>30CB | ホ<br>30DB | ル<br>30EB | ・<br>30FB |
| C | ガ<br>30AC | ゼ<br>30BC | ヌ<br>30CC | ボ<br>30DC | レ<br>30EC | ー<br>30FC |
| D | キ<br>30AD | ソ<br>30BD | ネ<br>30CD | ポ<br>30DD | ロ<br>30ED | ヽ<br>30FD |
| E | ギ<br>30AE | ゾ<br>30BE | ノ<br>30CE | マ<br>30DE | ワ<br>30EE | ヾ<br>30FE |
| F | ク<br>30AF | タ<br>30BF | ハ<br>30CF | ミ<br>30DF | ワ<br>30EF | ㇿ<br>30FF |

G = 00  
P = 00

Table 93 - Row 30: Katakana

| HEX  | NAME                                   | HEX  | NAME                           |
|------|----------------------------------------|------|--------------------------------|
| 30A0 | KATAKANA-HIRAGANA DOUBLE HYPHEN        | 30FD | KATAKANA ITERATION MARK        |
| 30A1 | KATAKANA LETTER SMALL A                | 30FE | KATAKANA VOICED ITERATION MARK |
| 30A2 | KATAKANA LETTER A                      | 30FF | KATAKANA DIGRAPH KOTO          |
| 30A3 | KATAKANA LETTER SMALL I                |      |                                |
| 30A4 | KATAKANA LETTER I                      |      |                                |
| 30A5 | KATAKANA LETTER SMALL U                |      |                                |
| 30A6 | KATAKANA LETTER U                      |      |                                |
| 30A7 | KATAKANA LETTER SMALL E                |      |                                |
| 30A8 | KATAKANA LETTER E                      |      |                                |
| 30A9 | KATAKANA LETTER SMALL O                |      |                                |
| 30AA | KATAKANA LETTER O                      |      |                                |
| 30AB | KATAKANA LETTER KA                     |      |                                |
| 30AC | KATAKANA LETTER GA                     |      |                                |
| 30AD | KATAKANA LETTER KI                     |      |                                |
| 30AE | KATAKANA LETTER GI                     |      |                                |
| 30AF | KATAKANA LETTER KU                     |      |                                |
| 30B0 | KATAKANA LETTER GU                     |      |                                |
| 30B1 | KATAKANA LETTER KE                     |      |                                |
| 30B2 | KATAKANA LETTER GE                     |      |                                |
| 30B3 | KATAKANA LETTER KO                     |      |                                |
| 30B4 | KATAKANA LETTER GO                     |      |                                |
| 30B5 | KATAKANA LETTER SA                     |      |                                |
| 30B6 | KATAKANA LETTER ZA                     |      |                                |
| 30B7 | KATAKANA LETTER SI                     |      |                                |
| 30B8 | KATAKANA LETTER ZI                     |      |                                |
| 30B9 | KATAKANA LETTER SU                     |      |                                |
| 30BA | KATAKANA LETTER ZU                     |      |                                |
| 30BB | KATAKANA LETTER SE                     |      |                                |
| 30BC | KATAKANA LETTER ZE                     |      |                                |
| 30BD | KATAKANA LETTER SO                     |      |                                |
| 30BE | KATAKANA LETTER ZO                     |      |                                |
| 30BF | KATAKANA LETTER TA                     |      |                                |
| 30C0 | KATAKANA LETTER DA                     |      |                                |
| 30C1 | KATAKANA LETTER TI                     |      |                                |
| 30C2 | KATAKANA LETTER DI                     |      |                                |
| 30C3 | KATAKANA LETTER SMALL TU               |      |                                |
| 30C4 | KATAKANA LETTER TU                     |      |                                |
| 30C5 | KATAKANA LETTER DU                     |      |                                |
| 30C6 | KATAKANA LETTER TE                     |      |                                |
| 30C7 | KATAKANA LETTER DE                     |      |                                |
| 30C8 | KATAKANA LETTER TO                     |      |                                |
| 30C9 | KATAKANA LETTER DO                     |      |                                |
| 30CA | KATAKANA LETTER NA                     |      |                                |
| 30CB | KATAKANA LETTER NI                     |      |                                |
| 30CC | KATAKANA LETTER NU                     |      |                                |
| 30CD | KATAKANA LETTER NE                     |      |                                |
| 30CE | KATAKANA LETTER NO                     |      |                                |
| 30CF | KATAKANA LETTER HA                     |      |                                |
| 30D0 | KATAKANA LETTER BA                     |      |                                |
| 30D1 | KATAKANA LETTER PA                     |      |                                |
| 30D2 | KATAKANA LETTER HI                     |      |                                |
| 30D3 | KATAKANA LETTER BI                     |      |                                |
| 30D4 | KATAKANA LETTER PI                     |      |                                |
| 30D5 | KATAKANA LETTER HU                     |      |                                |
| 30D6 | KATAKANA LETTER BU                     |      |                                |
| 30D7 | KATAKANA LETTER PU                     |      |                                |
| 30D8 | KATAKANA LETTER HE                     |      |                                |
| 30D9 | KATAKANA LETTER BE                     |      |                                |
| 30DA | KATAKANA LETTER PE                     |      |                                |
| 30DB | KATAKANA LETTER HO                     |      |                                |
| 30DC | KATAKANA LETTER BO                     |      |                                |
| 30DD | KATAKANA LETTER PO                     |      |                                |
| 30DE | KATAKANA LETTER MA                     |      |                                |
| 30DF | KATAKANA LETTER MI                     |      |                                |
| 30E0 | KATAKANA LETTER MU                     |      |                                |
| 30E1 | KATAKANA LETTER ME                     |      |                                |
| 30E2 | KATAKANA LETTER MO                     |      |                                |
| 30E3 | KATAKANA LETTER SMALL YA               |      |                                |
| 30E4 | KATAKANA LETTER YA                     |      |                                |
| 30E5 | KATAKANA LETTER SMALL YU               |      |                                |
| 30E6 | KATAKANA LETTER YU                     |      |                                |
| 30E7 | KATAKANA LETTER SMALL YO               |      |                                |
| 30E8 | KATAKANA LETTER YO                     |      |                                |
| 30E9 | KATAKANA LETTER RA                     |      |                                |
| 30EA | KATAKANA LETTER RI                     |      |                                |
| 30EB | KATAKANA LETTER RU                     |      |                                |
| 30EC | KATAKANA LETTER RE                     |      |                                |
| 30ED | KATAKANA LETTER RO                     |      |                                |
| 30EE | KATAKANA LETTER SMALL WA               |      |                                |
| 30EF | KATAKANA LETTER WA                     |      |                                |
| 30F0 | KATAKANA LETTER WI                     |      |                                |
| 30F1 | KATAKANA LETTER WE                     |      |                                |
| 30F2 | KATAKANA LETTER WO                     |      |                                |
| 30F3 | KATAKANA LETTER N                      |      |                                |
| 30F4 | KATAKANA LETTER VU                     |      |                                |
| 30F5 | KATAKANA LETTER SMALL KA               |      |                                |
| 30F6 | KATAKANA LETTER SMALL KE               |      |                                |
| 30F7 | KATAKANA LETTER VA                     |      |                                |
| 30F8 | KATAKANA LETTER VI                     |      |                                |
| 30F9 | KATAKANA LETTER VE                     |      |                                |
| 30FA | KATAKANA LETTER VO                     |      |                                |
| 30FB | KATAKANA MIDDLE DOT                    |      |                                |
| 30FC | KATAKANA-HIRAGANA PROLONGED SOUND MARK |      |                                |

Group 00

Plane 00

Row 30

Table 98 - Row 31: Katakana Phonetic Extensions

| 31F |           |
|-----|-----------|
| 0   | ク<br>31F0 |
| 1   | シ<br>31F1 |
| 2   | ス<br>31F2 |
| 3   | ト<br>31F3 |
| 4   | ヌ<br>31F4 |
| 5   | ハ<br>31F5 |
| 6   | ヒ<br>31F6 |
| 7   | フ<br>31F7 |
| 8   | ヘ<br>31F8 |
| 9   | ホ<br>31F9 |
| A   | ム<br>31FA |
| B   | ラ<br>31FB |
| C   | リ<br>31FC |
| D   | ル<br>31FD |
| E   | レ<br>31FE |
| F   | ロ<br>31FF |

G = 00  
P = 00