# ITU-T 

# TERMINAL EQUIPMENTS AND PROTOCOLS FOR TELEMATIC SERVICES 

## NON-LATIN CODED CHARACTER SETS FOR TELEMATIC SERVICES

## ITU-T Recommendation T. 52

(Previously "CCITT Recommendation")

## FOREWORD

The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the International Telecommunication Union. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, established the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

ITU-T Recommendation T. 52 was prepared by the ITU-T Study Group VIII (1988-1993) and was approved by the WTSC (Helsinki, March 1-12, 1993).

## NOTES

1
As a consequence of a reform process within the International Telecommunication Union (ITU), the CCITT ceased to exist as of 28 February 1993. In its place, the ITU Telecommunication Standardization Sector (ITU-T) was created as of 1 March 1993. Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.

In order not to delay publication of this Recommendation, no change has been made in the text to references containing the acronyms "CCITT, CCIR or IFRB" or their associated entities such as Plenary Assembly, Secretariat, etc. Future editions of this Recommendation will contain the proper terminology related to the new ITU structure.

2 In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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## Recommendation T. 52

# NON-LATIN CODED CHARACTER SETS FOR TELEMATIC SERVICES 

(Helsinki, 1993)

## 1 Scope

### 1.1 The CCITT,

considering
(a) the increasing interdependence of the various CCITT character sets and coding schemes in various telematic services;
(b) the introduction of new facilities such as code conversion and interworking between various telematic services;
(c) the convenience of having all relevant CCITT Recommendations on non-Latin character sets compiled in one Recommendation;
(d) that Recommendation T .51 is the existing base coding and control functions Recommendation for CCITT telematic services;
(e) that Recommendations T. 61 and T. 101 define the character coding systems for teletex and videotex;
(f) that Recommendation T. 50 specifies the International Reference Alphabet (IRA) of the 7-bit coded character set;
(g) that Recommendation T. 53 specifies the character coded control functions and code extension facilities to be used in the various telematic services,
provides the following Recommendation as a reference document
from which non-Latin graphic character sets should be derived for individual telematic services.
1.2 This Recommendation specifies all the non-Latin graphic character sets used in the CCITT telematic services. Its aim is to serve as the reference document for all future applications.
1.3 This Recommendation is an open Recommendation containing all the necessary provisions for the future addition of other non-Latin languages.
1.4 The naming conventions used in this Recommendation are in accordance to the guidelines for naming graphic characters and control functions issued by ISO/IEC. These guidelines consists of a set of rules described in Annex B.
1.5 This Recommendation describes the one byte codes which include the 7-bit and 8-bit graphic character sets for applications.
1.6 This Recommendation describes the two byte codes which include the Japanese-Kanji and Chinese character sets for applications.
1.7 Recommendation T. 52 implicitly includes T. 50 and T.51. Only the additional code tables for non-Latin alphabets are defined here. The non-Latin character sets defined in this Recommendation are

- the Arabic character set;
- the Chinese character set;
- the Cyrillic character set;
- the Greek character set;
- the Hebrew character set;
- the Japanese-Kanji character set;
- the Japanese-Katakana character set.


## 2 Normative references

The following CCITT Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The CCITT Secretariat maintains a list of currently valid CCITT Recommendations.

### 2.1 CCITT Recommendations

- CCITT Recommendation T. 50 International Reference Alphabet, 1992.
- CCITT Recommendation T. 51 Latin based Coded Character Sets for Telematic Services, 1992.
- CCITT draft Recommendation T. 53 Character Coded Control Functions for Telematic Services, 1993.
- CCITT Recommendation T. 61 Character repertoire and coded character sets for the international teletex service, 1992.
- CCITT Recommendation T. 101 International interworking for videotex services, 1992.


### 2.2 ISO Standards

ISO 2022, Information processing - ISO 7-bit and 8-bit coded character sets - Code extension techniques, 1986.

ISO 6429, Information processing - Control functions for coded character sets, 1992.
ISO/IEC 6937, Information technology - Coded graphic character set for text communication - Latin alphabet, 1992.
ISO/IEC 10367, Information processing - Repertoire of standardized coded graphic character sets for use in 8-bit codes, 1991.

JTC1/SC2/WG3 N 99, Guidelines for generating and presenting unique names of characters in SC2 standards, January 1990.

### 2.3 Non-ISO/CCITT Standards

Registration number 168, Japanese graphic character set for information interchange, Japanese standard JIS X 0208-1990.

ASMO 449, 7-bit coded Arabic character set for information interchange, 1985.

## 3 Definitions

For the purpose of this Recommendation the following definitions apply.
3.1 bit combination: An ordered set of bits used for the representation of characters.
3.2 byte: A bit string that is operated upon as a unit and the size of which is independent of redundancy or framing techniques.
3.3 character: A member of a set of elements used for the organization, control or representation of data.
3.4 coded character set; code: A set of unambiguous rules that establishes a character set and the one-to-one relationship between the characters of the set and their bit combination.
3.5 code extension: The technique for the encoding of characters that are not included in the character set of a given code.
3.6 code table: A table showing the character allocated to each bit combination in a code.
3.7 control character: A control function, the coded representation of which consists of a single bit combination.
3.8 control function: An action that affects the recording, processing, transmission or interpretation of data and that has a coded representation consisting of one or more bit combinations.
3.9 environment: The characteristic that identifies the number of bits used to represent a character in a data processing or data communication system or in part of such a system.
3.10 escape sequence: A bit string that is used for control purposes in code extension procedures and that consists of two or more bit combinations. The first of these bit combinations represents the character ESCAPE ( $01 / 11$ ).

NOTE - Formats and rules regarding the use of escape sequences are specified in ISO 2022.
3.11 final byte: The bit combination that terminates an escape sequence or a control sequence.

NOTE - In various specifications there appears the term final character which is equal to the term final byte.
3.12 graphic character: A character, other than a control function, that has a visual representation normally handwritten, printed or displayed, and that has a coded representation consisting of one or more bit combinations.
3.13 graphic symbol: A visual representation of a graphic character.
3.14 position: That part of a code table identified by its column and row coordinates.
3.15 repertoire: A specified set of characters that are represented by means of one or more bit combinations of a coded character set.
3.16 text: A representation of information for human comprehension that is intended for presentation in a two-dimensional form, for example printed on a paper or displayed on a screen.

Text consists of symbols, phrases or sentences in natural or artificial languages, pictures, diagrams and tables.
NOTE - This Recommendation applies only to text made up of characters.
3.17 text communication; communication of text: The transfer of text by means of telecommunications.

## 4 Abbreviations and acronyms

### 4.1 Abbreviations

For the purpose of this Recommendation the following abbreviations are used:

| ASMO | Arab Organization for Standardization and Metrology |
| :--- | :--- |
| CCITT | International Telegraph and Telephone Consultative Committee |
| IEC | International Electrotechnical Commission |
| ISO | International Organization for Standardization |

### 4.2 Acronyms

CSI Control sequence introducer
ESC Escape
LSB Least significant bit
MSB Most significant bit

## 5 Notation, structure and code table

### 5.1 Description of the 7-bit code

### 5.1.1 Notation

The bits of the 7-bit code are identified by $b_{7}, b_{6}, b_{5}, b_{4}, b_{3}, b_{2}$ and $b_{1}$, where $b_{7}$ is the highest order, or most significant bit (MSB) and $b_{1}$ is the lowest order, or least significant bit (LSB).

The bit combinations may be interpreted to represent numbers in the range of 0 to 128 in binary notation by attributing the following weights to the individual bits:

| Bits | $\mathrm{b}_{7}$ | $\mathrm{b}_{6}$ | $\mathrm{b}_{5}$ | $\mathrm{b}_{4}$ | $\mathrm{b}_{3}$ | $\mathrm{b}_{2}$ | $\mathrm{b}_{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weight | $2^{2}$ | $2^{1}$ | $2^{0}$ | $2^{3}$ | $2^{2}$ | $2^{1}$ | 20 |
|  | Column |  |  | Row |  |  |  |

In this Recommendation, the bit combinations are identified by notations of the form $x x / y y$, where $x x$ and $y y$ are numbers in the range 00 to 15 . The correspondence between the notations of the form $\mathrm{xx} / \mathrm{yy}$ and the bit combinations consisting of the bits $b_{7}$ to $b_{1}$ is as follows:

- $x x$ is the number represented by $b_{7}, b_{6}$ and $b_{5}$ where these bits are given the weights 4,2 and 1 , respectively;
- yy is the number represented by $b_{4}, b_{3}, b_{2}$ and $b_{1}$ where these bits are given the weights $8,4,2$ and 1 , respectively.

The notations of the form $\mathrm{xx} / \mathrm{yy}$ are the same as the ones used to identify code table positions, where xx is the column number and yy is the row number.

### 5.1.2 Code table

The 7 -bit code table described in Figure 5-1 consists of 128 positions arranged in 8 columns and 16 rows. The columns and rows are numbered from 00 to 07 and 00 to 15 , respectively.

The positions of the code table are in one-to-one correspondence with the bit combinations of the code. The notation of a code table position, of the form $\mathrm{xx} / \mathrm{yy}$, is the same as that of the corresponding bit combination.

### 5.1.3 Elements of the 7-bit code

The 7-bit code consists of the following parts:

- A C0 set

A set of up to 32 control characters taken from columns 00 and 01 of the code table.

- A G0 set

Columns 02 to 07 contain either:

1) the character SPACE in position $02 / 00$, which may be regarded as a control character or a graphic character, the character DELETE in position 07/15 and a set of 94 graphic characters in positions $02 / 01$ to $07 / 14$;
2) a set of 96 graphic characters in positions $02 / 00$ to $07 / 15$.

- A C1 set

A set of up to 32 control characters represented by ESC Fe.

- G1, G2, G3 sets

In a 7 -bit code by a set of 94 graphic characters.


## 7-bit code structure

### 5.2 Description of the 8-bit code

### 5.2.1 Notation

The bits of the 8 -bit code are identified by $b_{8}, b_{7}, b_{6}, b_{5}, b_{4}, b_{3}, b_{2}$ and $b_{1}$, where $b_{8}$ is the highest order, or most significant bit (MSB) and $b_{1}$ is the lowest order, or least significant bit (LSB).

The bit combinations may be interpreted to represent numbers in the range of 0 to 255 in binary notation by attributing the following weights to the individual bits:

| Bits of a 8-bit combination | $\mathrm{b}_{8}$ | $\mathrm{b}_{7}$ | $\mathrm{b}_{6}$ | $\mathrm{b}_{5}$ | $\mathrm{b}_{4}$ | $\mathrm{b}_{3}$ | $\mathrm{b}_{2}$ | $\mathrm{b}_{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bit weight for column and row reference | $2^{3}$ | $2^{2}$ | $2^{1}$ | $2^{0}$ | $2^{3}$ | $2^{2}$ | $2^{1}$ | $2^{0}$ |
|  | Column |  |  |  | Row |  |  |  |

In this Recommendation, the bit combinations are identified by notations of the form $x x / y y$, where $x x$ and $y y$ are numbers in the range 00 to 15 . The correspondence between the notations of the form $\mathrm{xx} / \mathrm{yy}$ and the bit combinations consisting of the bits $b_{8}$ to $b_{1}$ is as follows:

- $\quad x x$ is the number represented by $b_{8}, b_{7}, b_{6}$ and $b_{5}$ where these bits are given the weights $8,4,2$ and 1 , respectively;
- $\quad$ yy is the number represented by $b_{4}, b_{3}, b_{2}$ and $b_{1}$ where these bits are given the weights $8,4,2$ and 1 , respectively.

The notations of the form $\mathrm{xx} / \mathrm{yy}$ are the same as the ones used to identify code table positions, where xx is the column number and yy is the row number.

NOTE - The sets which are specified according to this notation are the 8 -bit Cyrillic, Greek, Hebrew and JapaneseKatakana character sets.

### 5.2.2 Code table

The 8-bit code table described in Figure 5-2 consists of 256 positions arranged in 16 columns and 16 rows. The columns and rows are numbered 00 to 15 .

The positions of the code table are in one-to-one correspondence with the bit combinations of the code. The notation of a code table position, of the form $\mathrm{xx} / \mathrm{yy}$, is the same as that of the corresponding bit combination.


8-bit code structure

### 5.2.3 Elements of the 8-bit code

The 8-bit code consists of the following parts:

- A C0 set

A set of up to 32 control characters represented by bit combinations from columns 00 and 01 .

- A G0 set

A set of 94 or 96 graphic characters represented by bit combinations $02 / 01$ to $07 / 14$ or $02 / 00$ to $07 / 15$, respectively.

- A C1 set

A set of up to 32 control characters represented by bit combinations from columns 08 to 09 .

- G1, G2, G3 sets

A set of 94 or 96 graphic characters represented by bit combinations from columns 02 to 07 or 10 to 15 .

### 5.3 Description of the two-byte code

### 5.3.1 Notation

The bits of the bit combinations of the two-byte codes are identified by two 7-bit bytes. Each byte consists of 7 bits $b_{7}$, $b_{6}, b_{5}, b_{4}, b_{3}, b_{2}$ and $b_{1}$, where $b_{7}$ is the highest order, or most significant bit (MSB) and $b_{1}$ is the lowest order, or least significant bit (LSB).

### 5.3.2 Code table

A two-byte code table consists of a matrix whose largest dimension can be $128 \times 128$. Particular positions in the code table are identified via two-byte, where the first byte identifies the row number and the second byte identifies the column number.

The codes which are specified according to this notation are the Chinese and Japanese-Kanji character sets.
The code table positions for these sets are identified by

- the notation of row/col notation as is beeing done in the Chinese set;
- the form "Ku"/"Ten" in the Japanese-Kanji set, where Ku is the row number and Ten is the column number.

The positions of the code table are in one-to-one correspondence with the bit combinations of the code. The notation of a code table position, of the form $\mathrm{xx} / \mathrm{yy}$, is the same as that of the corresponding bit combination.

The Chinese character set consists of 8443 positions arranged in a matrix of 94 rows and columns.
The Japanese-Kanji character set consists of 3657 positions arranged in a matrix of 48 rows and 94 columns. The code consists of two 7-bit bytes, where the first byte represents the "Ku" number and the second byte represents the "Ten" number.

## 6 Repertoire of graphic characters

### 6.1 General

The repertoire of non-Latin graphic characters defined in this Recommendation is derived from the following character sets:

- Arabic character set;
- Chinese character set;
- Cyrillic character set;
- Greek character set;
- Hebrew character set;
- Japanese-Kanji character set;
- Japanese-Katakana character set.

The repertoire is divided to the following subsections:
a) repertoire of the Latin alphabetic characters;
b) repertoire of the Arabic alphabetic characters;
c) repertoire of the Cyrillic alphabetic characters;
d) repertoire of the Greek alphabetic characters;
e) repertoire of the Hebrew alphabetic characters;
f) repertoire of the Katakana alphabetic characters;
g) non-alphabetic characters which consists of

1) decimal digits;
2) ordinal numbers;
3) roman symbols;
4) unit signs;
5) punctuation marks;
6) scientific signs;
7) miscellaneous symbols;
8) accents and diacritical marks as separate graphic characters.

NOTE - The repertoire described does not include the Chinese and Japanese-Kanji characters.
Each subsection consists of characters contained in a table with the following entries:

- the first column presents the graphical representation of the character;
- the second column specifies the name or description of the character;
- the last columns identify the character set in which the graphic character appears. These sets are identified by the following abbreviations:

1) ARB - ARABIC ;
2) CHN - CHINESE;
3) CYR - CYRILLIC;
4) GRK - GREEK;
5) HEB - HEBREW;
6) JKN - JAPANESE-KANJI;
7) JKT - JAPANESE-KATAKANA.

### 6.2 Repertoire of the Arabic alphabetic characters

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| Á | ARABIC LETTER HAMZAH | X |  |  |  |  |  |  |
| Â | ARABIC LETTER MADDAH ON ALEF | X |  |  |  |  |  |  |
| ก̃ | ARABIC LETTER HAMZAH ON ALEF | X |  |  |  |  |  |  |
| Ä | ARABIC LETTER HAMZAH ON WAW | X |  |  |  |  |  |  |
| $\AA$ | ARABIC LETTER HAMZAH UNDER ALEF | X |  |  |  |  |  |  |
| Æ | ARABIC LETTER HAMZAH ON YA | x |  |  |  |  |  |  |
| Ç | ARABIC LETTER ALEF | X |  |  |  |  |  |  |
| Ė | ARABIC LETTER BA | X |  |  |  |  |  |  |
| É | ARABIC LETTER TA MARBUTAH | X |  |  |  |  |  |  |
| E | ARABIC LETTER TA | x |  |  |  |  |  |  |
| Ë | ARABIC LETTER THA | X |  |  |  |  |  |  |
| İ | ARABIC LETTER JEEM | X |  |  |  |  |  |  |
| Í | ARABIC LETTER HA | X |  |  |  |  |  |  |
| İ | ARABIC LETTER KHA | X |  |  |  |  |  |  |
| Ï | ARABIC LETTER DAL | X |  |  |  |  |  |  |
| Ð | ARABIC LETTER THAL | X |  |  |  |  |  |  |
| Ñ | ARABIC LETTER RA | X |  |  |  |  |  |  |
| Ò | ARABIC LETTER ZAIN | X |  |  |  |  |  |  |
| Ó | ARABIC LETTER SEEN | X |  |  |  |  |  |  |
| Ô | ARABIC LETTER SHEEN | X |  |  |  |  |  |  |
| O | ARABIC LETTER SAD | X |  |  |  |  |  |  |
| Ö | ARABIC LETTER DAD | X |  |  |  |  |  |  |
| $\times$ | ARABIC LETTER TAH | X |  |  |  |  |  |  |
| $\varnothing$ | ARABIC LETTER DHAH | X |  |  |  |  |  |  |
| Ù | ARABIC LETTER AIN | X |  |  |  |  |  |  |
| Ú | ARABIC LETTER GHAIN | X |  |  |  |  |  |  |
| á | ARABIC LETTER FA | X |  |  |  |  |  |  |
| â | ARABIC LETTER QAF | X |  |  |  |  |  |  |
| ã | ARABIC LETTER CAF | X |  |  |  |  |  |  |
| ä | ARABIC LETTER LAM | X |  |  |  |  |  |  |
| å | ARABIC LETTER MEEM | X |  |  |  |  |  |  |
| $æ$ | ARABIC LETTER NOON | X |  |  |  |  |  |  |
| ¢ | ARABIC LETTER HA | X |  |  |  |  |  |  |
| è | ARABIC LETTER WAW | X |  |  |  |  |  |  |
| é | ARABIC LETTER ALEF MAQSURAH | X |  |  |  |  |  |  |
| ê | ARABIC LETTER YA | X |  |  |  |  |  |  |

### 6.3 Repertoire of the Cyrillic alphabetic characters

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| . | CYRILLIC CAPITAL LETTER IO |  |  | X |  |  |  |  |
| $€$ | CYRILLIC CAPITAL LETTER DJE (Serbocroatian) |  |  | X |  |  |  |  |
|  | CYRILLIC CAPITAL LETTER GJE |  |  | X |  |  |  |  |
| a | CYRILLIC CAPITAL LETTER IE (Ukrainian) |  |  | X |  |  |  |  |
| $1 / 2$ | CYRILLIC CAPITAL LETTER DZE |  |  | X |  |  |  |  |
| 2 | CYRILLIC CAPITAL LETTER I (Byelorussian-Ukrainian) |  |  | X |  |  |  |  |
| - | CYRILLIC CAPITAL LETTER YI (Ukrainian) |  |  | X |  |  |  |  |
| £ | CYRILLIC CAPITAL LETTER JE |  |  | X |  |  |  |  |
| Š | CYRILLIC CAPITAL LETTER LJE |  |  | X |  |  |  |  |
| OE | CYRILLIC CAPITAL LETTER NJE |  |  | X |  |  |  |  |
| Ž | CYRILLIC CAPITAL LETTER TSHE (Serbocroatian) |  |  | X |  |  |  |  |
|  | CYRILLIC CAPITAL LETTER KJE |  |  | X |  |  |  |  |
| i | CYRILLIC CAPITAL LETTER SHORT U (Byelorussian) |  |  | X |  |  |  |  |
|  | CYRILLIC CAPITAL LETTER DZHE |  |  | X |  |  |  |  |
| À | CYRILLIC CAPITAL LETTER A |  | X | X |  |  | X |  |
| Á | CYRILLIC CAPITAL LETTER BE |  | X | X |  |  | X |  |
| Â | CYRILLIC CAPITAL LETTER VE |  | X | X |  |  | X |  |
| Ã | CYRILLIC CAPITAL LETTER GHE |  | X | X |  |  | X |  |
| Ä | CYRILLIC CAPITAL LETTER DE |  | X | X |  |  | X |  |
| Å | CYRILLIC CAPITAL LETTER IE |  | X | X |  |  | X |  |
| た | CYRILLIC CAPITAL LETTER ZHE |  | X | X |  |  | X |  |
| Ç | CYRILLIC CAPITAL LETTER ZE |  | X | X |  |  | X |  |
| E | CYRILLIC CAPITAL LETTER I |  | X | X |  |  | X |  |
| É | CYRILLIC CAPITAL LETTER SHORT I |  | X | X |  |  | X |  |
| E | CYRILLIC CAPITAL LETTER KA |  | X | X |  |  | X |  |
| Ë | CYRILLIC CAPITAL LETTER EL |  | X | X |  |  | X |  |
| 1 | CYRILLIC CAPITAL LETTER EM |  | X | X |  |  | X |  |
| Í | CYRILLIC CAPITAL LETTER EN |  | X | X |  |  | X |  |
| 1 | CYRILLIC CAPITAL LETTER O |  | X | X |  |  | X |  |
| Ï | CYRILLIC CAPITAL LETTER PE |  | X | X |  |  | X |  |
| Đ | CYRILLIC CAPITAL LETTER ER |  | X | X |  |  | X |  |
| $\tilde{N}$ | CYRILLIC CAPITAL LETTER ES |  | X | X |  |  | X |  |
| Ò | CYRILLIC CAPITAL LETTER TE |  | X | X |  |  | X |  |
| Ó | CYRILLIC CAPITAL LETTER U |  | X | X |  |  | X |  |
| Ô | CYRILLIC CAPITAL LETTER EF |  | X | X |  |  | X |  |
| O | CYRILLIC CAPITAL LETTER HA |  | X | X |  |  | X |  |
| Ö | CYRILLIC CAPITAL LETTER TSE |  | X | X |  |  | X |  |
| $\times$ | CYRILLIC CAPITAL LETTER CHE |  | X | X |  |  | X |  |
| $\varnothing$ | CYRILLIC CAPITAL LETTER SHA |  | X | X |  |  | X |  |
| Ù | CYRILLIC CAPITAL LETTER SHCHA |  | X | X |  |  | X |  |
| Ú | CYRILLIC CAPITAL HARD SIGN |  | X | X |  |  | X |  |
| Û | CYRILLIC CAPITAL LETTER YERU |  | X | X |  |  | X |  |
| Ü | CYRILLIC CAPITAL SOFT SIGN |  | X | X |  |  | X |  |
| Ý | CYRILLIC CAPITAL LETTER E |  | X | X |  |  | X |  |
| P | CYRILLIC CAPITAL LETTER YU |  | X | X |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $\beta$ | CYRILLIC CAPITAL LETTER YA |  | X | X |  |  | X |  |
| à | CYRILLIC SMALL LETTER A |  | X | X |  |  | X |  |
| á | CYRILLIC SMALL LETTER BE |  | X | X |  |  | X |  |
| â | CYRILLIC SMALL LETTER VE |  | X | X |  |  | X |  |
| ã | CYRILLIC SMALL LETTER GHE |  | X | X |  |  | X |  |
| ä | CYRILLIC SMALL LETTER DE |  | X | X |  |  | X |  |
| å | CYRILLIC SMALL LETTER IE |  | X | X |  |  | X |  |
| æ | CYRILLIC SMALL LETTER ZHE |  | X | X |  |  | X |  |
| Ç | CYRILLIC SMALL LETTER ZE |  | X | X |  |  | X |  |
| è | CYRILLIC SMALL LETTER I |  | X | X |  |  | X |  |
| é | CYRILLIC SMALL LETTER SHORT I |  | X | X |  |  | X |  |
| ê | CYRILLIC SMALL LETTER KA |  | X | X |  |  | X |  |
| ë | CYRILLIC SMALL LETTER EL |  | X | X |  |  | X |  |
| İ | CYRILLIC SMALL LETTER EM |  | X | X |  |  | X |  |
| 1 | CYRILLIC SMALL LETTER EN |  | X | X |  |  | X |  |
| Î | CYRILLIC SMALL LETTER O |  | X | X |  |  | X |  |
| Ï | CYRILLIC SMALL LETTER PE |  | X | X |  |  | X |  |
| ð | CYRILLIC SMALL LETTER ER |  | X | X |  |  | X |  |
| ñ | CYRILLIC SMALL LETTER ES |  | X | X |  |  | X |  |
| ò | CYRILLIC SMALL LETTER TE |  | X | X |  |  | X |  |
| Ó | CYRILLIC SMALL LETTER U |  | X | X |  |  | X |  |
| Ô | CYRILLIC SMALL LETTER EF |  | X | X |  |  | X |  |
| O | CYRILLIC SMALL LETTER HA |  | X | X |  |  | X |  |
| Ö | CYRILLIC SMALL LETTER TSE |  | X | X |  |  | X |  |
| $\div$ | CYRILLIC SMALL LETTER CHE |  | X | X |  |  | X |  |
| $\varnothing$ | CYRILLIC SMALL LETTER SHA |  | X | X |  |  | X |  |
| ù | CYRILLIC SMALL LETTER SHCHA |  | X | X |  |  | X |  |
| ú | CYRILLIC SMALL HARD SIGN |  | X | X |  |  | X |  |
| Û | CYRILLIC SMALL LETTER YERU |  | X | X |  |  | X |  |
| ü | CYRILLIC SMALL SOFT SIGN |  | X | X |  |  | X |  |
| ý | CYRILLIC SMALL LETTER E |  | X | X |  |  | X |  |
| $p$ | CYRILLIC SMALL LETTER YU |  | X | X |  |  | X |  |
| $\ddot{y}$ | CYRILLIC SMALL LETTER YA |  | X | X |  |  | X |  |
| , | CYRILLIC SMALL LETTER IO |  | X | X |  |  | X |  |
|  | CYRILLIC SMALL LETTER DJE (Serbocroatian) |  |  | X |  |  |  |  |
| $f$ | CYRILLIC SMALL LETTER GJE |  |  | X |  |  |  |  |
| 0 | CYRILLIC SMALL LETTER IE (Ukrainian) |  |  | X |  |  |  |  |
| $3 / 4$ | CYRILLIC SMALL LETTER DZE |  |  | X |  |  |  |  |
| 3 | CYRILLIC SMALL LETTER I (Byelorussian-Ukrainian) |  |  | X |  |  |  |  |
|  | CYRILLIC SMALL LETTER YI (Ukrainian) |  |  | X |  |  |  |  |
| 1/4 | CYRILLIC SMALL LETTER JE |  |  | X |  |  |  |  |
| Š | CYRILLIC SMALL LETTER LJE |  |  | X |  |  |  |  |
| œ | CYRILLIC SMALL LETTER NJE |  |  | X |  |  |  |  |
| Ž | CYRILLIC SMALL LETTER TSHE (Serbocroatian) |  |  | X |  |  |  |  |
|  | CYRILLIC SMALL LETTER KJE |  |  | X |  |  |  |  |
|  | CYRILLIC SMALL LETTER SHORT U (Byelorussian) |  |  | X |  |  |  |  |
| $\ddot{Y}$ | CYRILLIC SMALL LETTER DZHE |  |  | X |  |  |  |  |

### 6.4 Repertoire of the monotonic Greek alphabetic characters

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| A | GREEK CAPITAL LETTER ALPHA |  | X |  | X |  | X |  |
| 'A | GREEK CAPITAL LETTER ALPHA WITH TONOS |  |  |  | X |  |  |  |
| B | GREEK CAPITAL LETTER BETA |  | X |  | X |  | X |  |
| $\Gamma$ | GREEK CAPITAL LETTER GAMMA |  | X |  | X |  | X |  |
| $\Delta$ | GREEK CAPITAL LETTER DELTA |  | X |  | X |  | X |  |
| E | GREEK CAPITAL LETTER EPSILON |  | X |  | X |  | X |  |
| 'E | GREEK CAPITAL LETTER EPSILON WITH TONOS |  |  |  | X |  |  |  |
| Z | GREEK CAPITAL LETTER ZETA |  | X |  | X |  | X |  |
| H | GREEK CAPITAL LETTER ETA |  | X |  | X |  | X |  |
| 'H | Greek capital letter eta with tonos |  |  |  | X |  |  |  |
| $\Theta$ | GREEK CAPITAL LETTER THETA |  | X |  | X |  | X |  |
| I | GREEK CAPITAL LETTER IOTA |  | X |  | X |  | X |  |
| 'I | GREEK CAPITAL LETTER IOTA WITH TONOS |  |  |  | X |  |  |  |
| I | GREEK CAPITAL LETTER IOTA WITH DIALYTIKA |  |  |  | X |  |  |  |
| K | GREEK CAPITAL LETTER KAPPA |  | X |  | X |  | X |  |
| $\Lambda$ | GREEK CAPITAL LETTER LAMDA |  | X |  | X |  | X |  |
| M | GREEK CAPITAL LETTER MU |  | X |  | X |  | X |  |
| N | GREEK CAPITAL LETTER NU |  | X |  | X |  | X |  |
| $\Xi$ | GREEK CAPITAL LETTER XI |  | X |  | X |  | X |  |
| O | GREEK CAPITAL LETTER OMICRON |  | X |  | X |  | X |  |
| 'O | GREEK CAPITAL LETTER OMICRON WITH TONOS |  |  |  | X |  |  |  |
| $\Pi$ | GREEK CAPITAL LETTER PI |  | X |  | X |  | X |  |
| P | GREEK CAPITAL LETTER RHO |  | X |  | X |  | X |  |
| $\Sigma$ | GREEK CAPITAL LETTER SIGMA |  | X |  | X |  | X |  |
| T | GREEK CAPITAL LETTER TAU |  | X |  | X |  | X |  |
| Y | GREEK CAPITAL LETTER UPSILON |  | X |  | X |  | X |  |
| 'Y | GREEK CAPITAL LETTER UPSILON WITH TONOS |  |  |  | X |  |  |  |
| $\ddot{Y}$ | GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA |  |  |  | X |  |  |  |
| $\Phi$ | GREEK CAPITAL LETTER PHI |  | X |  | X |  | X |  |
| X | GREEK CAPITAL LETTER KHI |  | X |  | X |  | X |  |
| $\Psi$ | GREEK CAPITAL LETTER PSI |  | X |  | X |  | X |  |
| $\Omega$ | GREEK CAPITAL LETTER OMEGA |  | X |  | X |  | X |  |
| ' | GREEK CAPITAL LETTER OMEGA WITH TONOS |  |  |  | X |  |  |  |
| $\alpha$ | GREEK SMALL LETTER ALPHA |  | X |  | X |  | X |  |
| $\alpha$ | GREEK SMALL LETTER ALPHA WITH TONOS |  |  |  | X |  |  |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $\beta$ | GREEK SMALL LETTER BETA |  | X |  | X |  | X |  |
| $\gamma$ | GREEK SMALL LETTER GAMMA |  | X |  | X |  | X |  |
| $\delta$ | Greek small letter delta |  | X |  | X |  | X |  |
| $\varepsilon$ | Greek small letter epsilon |  | X |  | X |  | X |  |
| غ́ | GREEK SMALL LETTER EPSILON WITH TONOS |  |  |  | X |  |  |  |
| $\zeta$ | GREEK SMALL LETTER ZETA |  | X |  | X |  | X |  |
| $\eta$ | Greek small letter eta |  | X |  | X |  | X |  |
| $\eta$ | GREEK SMALL LETTER ETA WITH TONOS |  |  |  | X |  |  |  |
| $\theta$ | GREEK SMALL LETTER THETA |  | X |  | X |  | X |  |
| 1 | GREEK SMALL LETTER IOTA |  | X |  | X |  | X |  |
| í | Greek small letter iota with tonos |  |  |  | X |  |  |  |
| i | Greek small letter iota with dialytika |  |  |  | X |  |  |  |
| 亿́ | Greek small letter iota with dialytika tonos |  |  |  | X |  |  |  |
| $\kappa$ | GREEK SMALL LETTER KAPPA |  | X |  | X |  | X |  |
| $\lambda$ | Greek small letter lamda |  | X |  | X |  | X |  |
| $\mu$ | GREEK SMALL LETTER MU |  | X |  | X |  | X |  |
| $v$ | GREEK SMALL LETTER NU |  | X |  | X |  | X |  |
| $\xi$ | GREEK SMALL LETTER XI |  | X |  | X |  | X |  |
| 0 | GREEK SMALL LETTER OMICRON |  | X |  | X |  | X |  |
| Ó | GREEK SMALL LETTER OMICRON WITH TONOS |  | X |  | X |  |  |  |
| $\pi$ | GREEK SMALL LETTER PI |  | X |  | X |  | X |  |
| $\rho$ | GREEK SMALL LETTER RHO |  | X |  | X |  | X |  |
| $\sigma$ | GREEK SMALL LETTER SIGMA |  | X |  | X |  | X |  |
| $\zeta$ | Greek small letter final sigma |  | X |  | X |  | (1) |  |
| $\tau$ | Greek small letter tau |  | X |  | X |  | X |  |
| $v$ | GREEK SMALL LETTER UPSILON |  | X |  | X |  | X |  |
| ט́ | GREEK SMALL LETTER UPSILON WITH TONOS |  |  |  | X |  |  |  |
| $\ddot{\text { Ü }}$ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA |  |  |  | X |  |  |  |
| ט́ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA TONOS |  |  |  | X |  |  |  |
| $\varphi$ | GREEK SMALL LETTER PHI |  | X |  | X |  | X |  |
| $\chi$ | GREEK SMALL LETTER KHI |  | X |  | X |  | X |  |
| $\psi$ | GREEK SMALL LETTER PSI |  | X |  | X |  | X |  |
| $\omega$ | GREEK SMALL LETTER OMEGA |  | X |  | X |  | X |  |
| $\omega$ | GREEK SMALL LETTER OMEGA WITH TONOS |  |  |  | X |  |  |  |
| NOTE - | e addition of the "GREEK SMALL LETTER FINAL SIGMA" at po | tion 5 | 06 is for | furthe | consid | ration |  |  |

### 6.5 Repertoire of the Hebrew alphabetic characters

|  | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $N$ | HEBREW LETTER ALEF |  |  |  |  | X |  |  |
| ב | HEBREW LETTER BET |  |  |  |  | X |  |  |
| $\lambda$ | HEBREW LETTER GIMEL |  |  |  |  | X |  |  |
| T | HEBREW LETTER DALET |  |  |  |  | X |  |  |
| ה | HEBREW LETTER HE |  |  |  |  | X |  |  |
| 1 | HEBREW LETTER VAV |  |  |  |  | X |  |  |
| T | HEBREW LETTER ZAYIN |  |  |  |  | X |  |  |
| $\Pi$ | HEBREW LETTER HET |  |  |  |  | X |  |  |
| ७ | HEBREW LETTER TET |  |  |  |  | X |  |  |
| 7 | HEBREW LETTER YOD |  |  |  |  | X |  |  |
| T | HEBREW LETTER FINAL KAF |  |  |  |  | x |  |  |
| $\checkmark$ | HEBREW LETTER KAF |  |  |  |  | X |  |  |
| 2 | HEBREW LETTER LAMED |  |  |  |  | X |  |  |
| $\square$ | HEBREW LETTER FINAL MEM |  |  |  |  | X |  |  |
| 万 | HEBREW LETTER MEM |  |  |  |  | X |  |  |
| 1 | HEbrew letter final nun |  |  |  |  | X |  |  |
| ] | HEBREW LETTER NUN |  |  |  |  | x |  |  |
| 0 | HEBREW LETTER SAMEKH |  |  |  |  | X |  |  |
| 1 | HEBREW LETTER AYIN |  |  |  |  | X |  |  |
| 9 | HEbrew letter final pe |  |  |  |  | X |  |  |
| 9 | HEBREW LETTER PE |  |  |  |  | X |  |  |
| $\nu$ | HEBREW LETTER FINAL TSADI |  |  |  |  | X |  |  |
| 3 | HEBREW LETTER TSADI |  |  |  |  | X |  |  |
| 12 | HEbrew letter Qof |  |  |  |  | X |  |  |
| 7 | HEBREW LETTER RESH |  |  |  |  | X |  |  |
| $\square$ | HEbREW LETTER SHIN |  |  |  |  | X |  |  |
| ת | HEBREW LETTER TAV |  |  |  |  | X |  |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| 7 | KATAKANA WO |  | X |  |  |  | X | X |
| T | Small katakana a |  | X |  |  |  | X | X |
| 1 | Small Katakana I |  | X |  |  |  | X | X |
| 7 | Small katakana U |  | X |  |  |  | X | X |
| x | Small katakana E |  | X |  |  |  | X | X |
| t | Small katakana o |  | X |  |  |  | X | X |
| $t$ | Small katakana Ya |  | X |  |  |  | X | X |
| z | SMALL KATAKANA YU |  | X |  |  |  | X | X |
| ョ | SMALL Katakana yo |  | X |  |  |  | X | X |
| 7 | Small katakana tsu |  | X |  |  |  | X | X |
| 7 | Katakana a |  | X |  |  |  | X | X |
| 1 | Katakana I |  | X |  |  |  | X | X |
| ウ | Katakana U |  | X |  |  |  | X | X |
| I | Katakana E |  | X |  |  |  | X | X |
| 才 | Katakana o |  | X |  |  |  | X | X |
| 力 | KATAKANA KA |  | X |  |  |  | X | X |
| 中 | KATAKANA KI |  | X |  |  |  | X | X |
| ク | KATAKANA KU |  | X |  |  |  | X | X |
| $r$ | KATAKANA KE |  | X |  |  |  | X | X |
| 7 | Katakana ko |  | X |  |  |  | X | X |
| サ | KATAKANA SA |  | X |  |  |  | X | X |
| $\dot{*}$ | KATAKANA SHI |  | X |  |  |  | X | X |
| ス | KATAKANA SU |  | X |  |  |  | X | X |
| t | Katakana SE |  | X |  |  |  | X | X |
| ソ | Katakana so |  | X |  |  |  | X | X |
| 夕 | KATAKANA TA |  | X |  |  |  | X | X |
| 4 | KATAKANA CHI |  | X |  |  |  | X | X |
| $\because$ | Katakana tsu |  | X |  |  |  | X | X |
| テ | Katakana TE |  | X |  |  |  | X | X |
| 1 | Katakana to |  | X |  |  |  | X | X |
| t | KATAKANA NA |  | X |  |  |  | X | X |
| $=$ | Katakana ni |  | X |  |  |  | X | X |
| ス | KATAKANA NU |  | X |  |  |  | X | X |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| れ | Katakana ne |  | X |  |  |  | X | X |
| ／ | Katakana no |  | X |  |  |  | X | X |
| $\cdots$ | Katakana ha |  | X |  |  |  | X | X |
| $匕$ | KATAKANA HI |  | X |  |  |  | X | X |
| 7 | KATAKANA FU |  | X |  |  |  | X | X |
| $\sim$ | KATAKANA HE |  | X |  |  |  | X | X |
| ＊ | KATAKANA HO |  | X |  |  |  | X | X |
| 7 | Katakana ma |  | X |  |  |  | X | X |
| ： | Katakana mi |  | X |  |  |  | X | X |
| 4 | Katakana mu |  | X |  |  |  | X | X |
| $\lambda$ | KATAKANA ME |  | X |  |  |  | X | X |
| モ | KATAKANA MO |  | X |  |  |  | X | X |
| ＋ | KATAKANA YA |  | X |  |  |  | X | X |
| $z$ | Katakana yu |  | X |  |  |  | X | X |
| 3 | Katakana yo |  | X |  |  |  | X | X |
| $\overline{7}$ | Katakana Ra |  | X |  |  |  | X | X |
| リ | KATAKANA RI |  | X |  |  |  | X | X |
| ル | KATAKANA RU |  | X |  |  |  | X | X |
| V | Katakana Re |  | X |  |  |  | X | X |
| 口 | KATAKANA RO |  | X |  |  |  | X | X |
| 7 | KATAKANA WA |  | X |  |  |  | X | X |
| $\because$ | KATAKANA $\mathrm{N}(\mathrm{M})$ |  | X |  |  |  | X | X |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| A | LATIN CAPITAL LETTER A |  | X |  |  |  | X |  |
| B | Latin Capital letter B |  | X |  |  |  | X |  |
| C | Latin Capital letter C |  | X |  |  |  | X |  |
| D | Latin Capital letter D |  | X |  |  |  | X |  |
| E | Latin capital letter E |  | X |  |  |  | X |  |
| F | Latin capital letter F |  | X |  |  |  | X |  |
| G | Latin Capital letter G |  | X |  |  |  | X |  |
| H | Latin Capital letter H |  | X |  |  |  | X |  |
| I | Latin Capital letter I |  | X |  |  |  | X |  |
| J | Latin Capital letter J |  | X |  |  |  | X |  |
| K | LATIN CAPITAL LETTER K |  | X |  |  |  | X |  |
| L | Latin capital letter L |  | X |  |  |  | X |  |
| M | LATIN CAPITAL LETTER M |  | X |  |  |  | X |  |
| N | LATIN CAPITAL LETTER N |  | X |  |  |  | X |  |
| O | LATIN CAPITAL LETTER O |  | X |  |  |  | X |  |
| P | LATIN CAPITAL LETTER P |  | X |  |  |  | X |  |
| Q | LATIN CAPITAL LETTER Q |  | X |  |  |  | X |  |
| R | LATIN CAPITAL LETTER R |  | X |  |  |  | X |  |
| S | Latin capital letter S |  | X |  |  |  | X |  |
| T | Latin capital letter T |  | X |  |  |  | X |  |
| U | LATIN CAPITAL LETTER U |  | X |  |  |  | X |  |
| V | Latin capital letter V |  | X |  |  |  | X |  |
| W | LATIN CAPITAL LETTER W |  | X |  |  |  | X |  |
| X | LATIN CAPITAL LETTER X |  | X |  |  |  | X |  |
| Y | LATIN CAPITAL LETTER Y |  | X |  |  |  | X |  |
| Z | LATIN CAPITAL LETTER Z |  | X |  |  |  | X |  |
| a | LATIN SMALL LETtER A |  | X |  |  |  | X |  |
| b | LATIN SMALL LETtER B |  | X |  |  |  | X |  |
| c | LATIN SMALL LETTER C |  | X |  |  |  | X |  |
| d | LATIN SMALL LETtER D |  | X |  |  |  | X |  |
| e | LATIN SMALL LETtER E |  | X |  |  |  | X |  |
| f | LATIN SMALL LEtTER F |  | X |  |  |  | X |  |
| g | LATIN SMALL LETtER G |  | X |  |  |  | X |  |
| h | Latin Small letter h |  | X |  |  |  | X |  |
| i | LATIN SMALL LETTER I |  | X |  |  |  | X |  |
| j | LATIN SMALL LETTER J |  | X |  |  |  | X |  |
| k | LATIN SMALL LETtER K |  | X |  |  |  | X |  |
| 1 | LATIN SMALL LETTER L |  | X |  |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| m | LATIN SMALL LETTER M |  | X |  |  |  | X |  |
| n | LATIN SMALL LETTER N |  | X |  |  |  | X |  |
| o | LATIN SMALL LETTER O |  | X |  |  |  | X |  |
| p | LATIN SMALL LETTER P |  | X |  |  |  | X |  |
| q | LATIN SMALL LETTER Q |  | X |  |  |  | X |  |
| r | LATIN SMALL LETTER R |  | X |  |  |  | X |  |
| s | LATIN SMALL LETTER S |  | X |  |  |  | X |  |
| t | LATIN SMALL LETTER T |  | X |  |  |  | X |  |
| u | LATIN SMALL LETTER U |  | X |  |  |  | X |  |
| v | LATIN SMALL LETTER V |  | X |  |  |  | X |  |
| w | LATIN SMALL LETTER W |  | X |  |  |  | X |  |
| x | LATIN SMALL LETTER X |  | X |  |  |  | X |  |
| y | LATIN SMALL LETTER Y |  | X |  |  |  | X |  |
| z | LATIN SMALL LETTER Z |  | X |  |  |  | X |  |

### 6.8 Non-alphabetic characters

### 6.8.1 Decimal digits

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| 1 | DIGIT ONE | X | X |  | X |  | X |  |
| 2 | DIGIT TWO | X | x |  | X |  | X |  |
| 3 | DIGIT THREE | X | X |  | X |  | X |  |
| 4 | DIGIT FOUR | X | X |  | X |  | X |  |
| 5 | digit five | X | X |  | X |  | X |  |
| 6 | DIGIT SIX | X | X |  | X |  | X |  |
| 7 | digit Seven | X | X |  | X |  | X |  |
| 8 | DIGIT EIGHT | X | X |  | X |  | X |  |
| 9 | digit nine | X | X |  | X |  | X |  |
| 0 | DIGIT ZERO | X | X |  | X |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| 1. | DIGIT ONE WITH PERIOD |  | X |  |  |  |  |  |
| 2. | DIGIT TWO WITH PERIOD |  | X |  |  |  |  |  |
| 3. | DIGIT THREE WITH PERIOD |  | X |  |  |  |  |  |
| 4. | DIGIT FOUR WITH PERIOD |  | X |  |  |  |  |  |
| 5. | digit five with period |  | X |  |  |  |  |  |
| 6. | digit six with period |  | x |  |  |  |  |  |
| 7. | digit seven with period |  | X |  |  |  |  |  |
| 8. | digit eight with period |  | X |  |  |  |  |  |
| 9. | digit Nine with period |  | X |  |  |  |  |  |
| 10. | digit ten with period |  | X |  |  |  |  |  |
| 11. | digit eleven with period |  | X |  |  |  |  |  |
| 12. | digit twelve with period |  | X |  |  |  |  |  |
| 13. | DIGIT THIRTEEN WITH PERIOD |  | X |  |  |  |  |  |
| 14. | DIGIT FOURTEEN WITH PERIOD |  | x |  |  |  |  |  |
| 15. | digit fifteen with period |  | X |  |  |  |  |  |
| 16. | digit sixteen with period |  | X |  |  |  |  |  |
| 17. | digit seventeen with period |  | X |  |  |  |  |  |
| 18. | digit eighteen with period |  | X |  |  |  |  |  |
| 19. | digit nineteen with period |  | X |  |  |  |  |  |
| 20. | DIGIT TWENTY WITH PERIOD |  | X |  |  |  |  |  |
| (1) | DIGIT ONE WITH PARENTHESIS |  | X |  |  |  |  |  |
| (2) | DIGIT TWO WITH PARENTHESIS |  | x |  |  |  |  |  |
| (3) | digit three with parenthesis |  | X |  |  |  |  |  |
| (4) | DIGIT FOUR WITH PARENTHESIS |  | X |  |  |  |  |  |
| (5) | digit five with parenthesis |  | X |  |  |  |  |  |
| (6) | digit six with parenthesis |  | X |  |  |  |  |  |
| (7) | digit seven with parenthesis |  | X |  |  |  |  |  |
| (8) | digit eight with parenthesis |  | X |  |  |  |  |  |
| (9) | digit nine with parenthesis |  | X |  |  |  |  |  |
| (10) | NUMBER TEN WITH PARENTHESIS |  | X |  |  |  |  |  |
| (11) | digit eleven with parenthesis |  | X |  |  |  |  |  |
| (12) | DIGIT TWELVE WITH PARENTHESIS |  | X |  |  |  |  |  |
| (13) | digit thirteen with parenthesis |  | X |  |  |  |  |  |
| (14) | digit fourteen with parenthesis |  | X |  |  |  |  |  |
| (15) | digit fifteen with parenthesis |  | X |  |  |  |  |  |
| (16) | digit sixteen with parenthesis |  | X |  |  |  |  |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| (17) | digit Seventeen with parenthesis |  | X |  |  |  |  |  |
| (18) | DIGIT EIGHTEEN WITH PARENTHESIS |  | X |  |  |  |  |  |
| (19) | digit nineteen with parenthesis |  | X |  |  |  |  |  |
| (20) | DIGIT TWENTY WITH PARENTHESIS |  | X |  |  |  |  |  |
| (1) | DIGIT ONE WITH CIRCLE |  | X |  |  |  |  |  |
| (2) | DIgIt TWO WITH CIRCLE |  | X |  |  |  |  |  |
| (3) | DIGIT THREE WITH CIRCLE |  | X |  |  |  |  |  |
| (4) | DIGIT FOUR WITH CIRCLE |  | X |  |  |  |  |  |
| (5) | digit five with circle |  | X |  |  |  |  |  |
| (6) | DIGIT SIX WITH CIRCLE |  | X |  |  |  |  |  |
| (7) | DIGIT SEVEN WITH CIRCLE |  | X |  |  |  |  |  |
| (8) | DIGIT EIGHT WITH CIRCLE |  | X |  |  |  |  |  |
| (9) | DIGIT NINE WITH CIRCLE |  | X |  |  |  |  |  |
| (10) | digit ten with circle |  | X |  |  |  |  |  |

6.8.3 Roman symbols

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| I | ROMAN SYMBOL ONE |  | X |  |  |  |  |  |
| II | ROMAN SYMBOL TWO |  | X |  |  |  |  |  |
| III | ROMAN SYMBOL THREE |  | X |  |  |  |  |  |
| IV | ROMAN SYMBOL FOUR |  | X |  |  |  |  |  |
| v | ROMAN SYMBOL FIVE |  | X |  |  |  |  |  |
| VI | ROMAN SYMBOL SIX |  | X |  |  |  |  |  |
| VII | ROMAN SYMBOL SEVEN |  | X |  |  |  |  |  |
| VIII | ROMAN SYMBOL EIGHT |  | X |  |  |  |  |  |
| IX | ROMAN SYMBOL NINE |  | X |  |  |  |  |  |
| X | ROMAN SYMBOL TEN |  | X |  |  |  |  |  |
| XI | ROMAN SYMBOL ELEVEN |  | X |  |  |  |  |  |
| XII | ROMAN SYMBOL TWELVE |  | X |  |  |  |  |  |

6.8.4 Unit signs

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| Å | ANGSTROM |  |  |  |  |  | X |  |
| ¢ | CENT SIGN |  |  |  | X |  | X |  |
| ${ }^{\circ} \mathrm{C}$ | CENTIGRADE SYMBOL |  | X |  |  |  | X |  |
| - | DEGREE SIGN |  | X |  | X |  | X |  |
| \$ | DOLLAR SIGN |  | X |  |  |  | X |  |
| a | GENERAL CURRENCY SIGN | X | X |  | X |  |  |  |
| $\mu$ | MICRO SIGN |  |  |  | X |  |  |  |
|  | MINUTE |  | X |  |  |  | X |  |
| $\Omega$ | OHM SIGN |  |  |  | X |  |  |  |
| £ | POUND SIGN |  | X |  | X |  | X |  |
| " | SECOND |  | X |  |  |  | X |  |
| $¥$ | YEN SIGN |  |  |  | X |  | X |  |

6.8.5 Punctuation marks

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| ' | APOSTROPHE | X | X |  | X |  | X |  |
| $\neg$ | ARABIC COMMA | X |  |  |  |  |  |  |
| i | ARABIC QUESTION MARK | X |  |  |  |  |  |  |
| " | ARABIC SEMICOLON | X |  |  |  |  |  |  |
| : | COLON | X | X | X | X |  | X |  |
| , | COMMA |  | X | X | X |  | X | X |
| - | CONJUNCTIVE SYMBOL |  |  |  |  |  | X | X |
| - | DASH (em) |  |  |  |  |  | X |  |
| 11 | DITTO MARK |  |  |  |  |  | X |  |
| 全 | JAPANESE DITTO MARK |  |  |  |  |  | X |  |
| 1 | DOUBLE VERTICAL LINE |  |  |  |  |  | X |  |
| ! | EXCLAMATION MARK | X | X |  | X |  | X |  |
| . | FULL STOP, PERIOD | X | X | X | X |  | X | X |
| $\lambda$ | HIRAGANA ITERATION MARK |  |  |  |  |  | X |  |
| i | HIRAGANA ITERATION MARK (for voiced sound) |  |  |  |  |  | X |  |
| - | HYPHEN, MINUS SIGN | X | X | X | X |  | X |  |
| - | HYPHON (quarter) |  |  |  |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| 欠 | ITERATION MARK |  |  |  |  |  | X |  |
| , | Japanese Comma, Chinese pause |  | X |  |  |  | X |  |
| 0 | JAPANESE/CHINESE FULL STOP |  | X |  |  |  | X |  |
| 0 | KANJI ZERO |  |  |  |  |  | X |  |
| , | KATAKANA ITERATION MARK |  |  |  |  |  | X |  |
| - | KATAKANA ITERATION MARK (for voiced sound) |  |  |  |  |  | X |  |
| - | LOW LINE | X | X | X | X |  | X |  |
| NBSP | NO-BREAK SPACE |  | X |  | X |  | X |  |
| - | OVERLINE |  |  |  |  |  | X |  |
| - | PERIOD |  |  |  |  |  | X |  |
| - | PROLONGED SOUND SYMBOL |  |  |  |  |  | X | X |
| ? | QUESTION MARK |  | x |  | X |  | X |  |
| " | QUOTATION MARK | X | X |  | X |  | X |  |
| ; | SEMICOLON |  | X | X | X |  | X |  |
| - | SEMI-VOICED SOUND |  |  |  |  |  | X | X |
| $\alpha$ | SHIME (closing) MARK |  |  |  |  |  | X |  |
| SHY | SOFT HYPHEN |  | X | X | X |  |  |  |
|  | SPACE |  | X |  | X |  | X |  |
| $\ldots$ | THREE-POINT LEADER |  | X |  |  |  | X |  |
| . | TWO-POINT LEADER |  |  |  |  |  | X |  |
| - | UNDERLINE |  | X |  |  |  | X |  |
| \| | VERTICAL LINE |  | X |  | X |  | X |  |
| * | VOICED SOUND SYMBOL |  | X |  |  |  | X | X |
| $\sim$ | WAVE DASH |  | X |  |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $\angle$ | ANGLE SIGN |  | X |  |  |  | X |  |
| $\fallingdotseq$ | APPROXIMATELY EQUAL SIGN |  |  |  |  |  | X |  |
| $<$ | ARABIC GREATER－THAN SIGN | X |  |  |  |  |  |  |
| $>$ | ARABIC LESS－THAN SIGN | X |  |  |  |  |  |  |
| － | ARC |  |  |  |  |  | X |  |
| $\because$ | BECAUSE SIGN |  |  |  |  |  | X |  |
| $\wedge$ | CONJUNCTION SIGN |  | X |  |  |  | X |  |
| $\partial$ | CURLY D |  |  |  |  |  | X |  |
| $\checkmark$ | DISJUNCTION SIGN |  | X |  |  |  | X |  |
| $\div$ | DIVIDE SIGN |  | X |  | X |  | X |  |
| ［ $\int$ | DOUBLE INTEGRAL SIGN |  |  |  |  |  | X |  |
| ＝ | EQUALS SIGN | X | X |  | X |  | X |  |
| $\Leftrightarrow$ | EQUIVALENCE SIGN |  |  |  |  |  | X |  |
| $\exists$ | EXISTENTIAL QUANTIFIER |  |  |  |  |  | X |  |
| 우 | FEMALE SYMBOL |  |  |  |  |  | X |  |
| $>$ | GREATER－THAN SIGN |  | X |  | X |  | X |  |
| $\geq$ | GREATER－THAN EQUALS SIGN |  | X |  |  |  | X |  |
| 三 | IDENTITY SIGN |  |  |  |  |  | X |  |
| $\Rightarrow$ | IMPLICATION SIGN |  |  |  |  |  | X |  |
| $\infty$ | INFINITY SIGN |  |  |  |  |  | X |  |
| • | INTEGRAL SIGN |  | X |  |  |  | X |  |
| $\bigcirc$ | INTERSECTION OF L AND R， |  | X |  |  |  | X |  |
| $\infty$ | IS SIMILAR TO SIGN |  | X |  |  |  | X |  |
| $\epsilon$ | L BELONGS TO R SIGN |  | X |  |  |  | X |  |
| $\ni$ | THE SET L CONTAINS R（as element） |  |  |  |  |  | X |  |
| $\subseteq$ | L IS INCLUDED IN R，L IS A SUBSET OF R |  |  |  |  |  | X |  |
| 〇 | L INCLUDES R（as subset） |  |  |  |  |  | X |  |
| $\subset$ | L IS PROPERLY INCLUDED IN R <br> L IS A PROPER SUBSET OF R |  |  |  |  |  | X |  |
| $\supset$ | L INCLUDES R PROPERLY |  |  |  |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $<$ | LESS-THAN SIGN |  | X |  | X |  | X |  |
| $\leq$ | LESS-THAN EQUAL SIGN |  | X |  |  |  | X |  |
| 87 | male symbol |  |  |  |  |  | X |  |
|  | MINUS SIGN |  | X |  |  |  | X |  |
| >> | MUCH GREATER-THAN SIGN |  | X |  |  |  | X |  |
| << | MUCH LESS-THAN SIGN |  | X |  |  |  | X |  |
| $\times$ | MULTIPLY SIGN |  | X |  | X |  | X |  |
| $\nabla$ | NABLA OPERATOR |  |  |  |  |  | X |  |
| $\neg$ | NEGATION SIGN |  |  |  |  |  | x |  |
| $\neq$ | NOT EQUALS SIGN |  | X |  |  |  | X |  |
| $\perp$ | PERPENDICULAR SIGN |  |  |  |  |  | X |  |
| + | PLUS SIGN | X | X |  | X |  | X |  |
| $\pm$ | Plus minus sign |  | X |  | X |  | X |  |
| $\propto$ | PROPORTIONALITY SIGN |  |  |  |  |  | X |  |
| $\sqrt{ }$ | ROOT SIGN |  |  |  |  |  | X |  |
| $\therefore$ | THEREFORE SIGN |  | X |  |  |  | x |  |
| $\cup$ | UNION OF L AND R |  | X |  |  |  | X |  |
| $\forall$ | UNIVERSAL QUANTIFIER SIGN |  |  |  |  |  | X |  |

6.8.7 Miscellaneous symbols

| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| $b$ | A FLAT |  |  |  |  |  | X |  |
| $\dagger$ | A DAGGER |  |  |  |  |  | X |  |
| $\rho$ | A MUSICAL NOTE |  |  |  |  |  | X |  |
| \# | A SHARP |  | X |  |  |  | X |  |
| \& | AMPERSAND | X | X |  | X |  | X |  |
| * | ASTERISK | X | X |  | X |  | X |  |
| $\beta$ | ARABIC TATWEEL | X |  |  |  |  |  |  |
| $\checkmark$ | BLACK DIAMOND |  | X |  |  |  | X |  |
| - | BLACK CIRCLE |  | X |  |  |  | X |  |
| $\nabla$ | BLACK REVERSE TRIANGLE |  | X |  |  |  | X |  |
| $\square$ | BLACK SQUARE |  | X |  |  |  | X |  |
| * | BLACK STAR |  | X |  |  |  | X |  |
| - | BLACK TRIANGLE |  | X |  |  |  | X |  |
| $\bigcirc$ | CIRCLE FOR COMPOSITION |  | X |  |  |  | X |  |
| @ | COMMERCIAL AT | X | X |  | X |  | X |  |
| $\checkmark$ | DIAMOND |  | X |  |  |  | X |  |
| ( | DOUBLE CIRCLE |  | X |  |  |  | X |  |
| $\pm$ | DOUBLE DAGGER |  |  |  |  |  | X |  |
| $\downarrow$ | DOWNWARD ARROW |  |  |  | X |  | X |  |
| $\underline{\square}$ | "GETA" MARK |  | X |  |  |  | X |  |
| * | "KOME" (RICE) MARK |  | X |  |  |  | X |  |
| < | LEFT ANGLE BRACKET |  | X |  |  |  | X |  |
|  | LEFT BOLD FACE SQUARE BRACKET |  | X |  |  |  | X |  |
| \{ | LEFT CURLY BRACKET | x | X |  | X |  | X |  |
| << | LEFT DOUBLE ANGLE BRACKET |  |  |  | X |  | X |  |
|  | LEFT DOUBLE HOOK BRACKET |  |  |  |  |  | X |  |
| " | LEFT DOUBLE QUOTATION MARK |  | X |  | X |  | X |  |
|  | LEFT HOOK BRACKET |  |  |  |  |  | X | X |
| ( | LEFT PARENTHESIS | X | X | X | X |  | X |  |
| ' | LEFT SINGLE QUOTATION MARK |  |  |  | X |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| ［ | LEFT SQUARE BRACKET | X | X |  | X |  | X |  |
| C | LEFT TORTOISE－SHELL BRACKET |  | X |  |  |  | X |  |
| $\leftarrow$ | LEFTWARD ARROW |  | X |  | X |  | X |  |
| \＃ | NUMBER SIGN | X | X |  | X |  | X |  |
| － | OVERLINE | X |  |  |  |  |  |  |
| TI | PARAGRAPH SIGN |  |  |  | X |  | X |  |
| \％ | PER MILLE SIGN |  | X |  |  |  | X |  |
| \％ | PERCENT SIGN | X | X |  | X |  | X |  |
| 〒 | POST MARK |  |  |  |  |  | X |  |
| 1 | SOLIDUS | X | X | X | X |  | X |  |
| 1 | REVERSE SOLIDUS | X | X |  | X |  | X |  |
| $\nabla$ | REVERSE TRIANGLE |  |  |  |  |  | X |  |
| ＞ | RIGHT ANGLE BRACKET |  | X |  |  |  | X |  |
| $J$ | RIGHT BOLD FACE SQUARE BRACKET |  | X |  |  |  | X |  |
| \} | RIGHT CURLY BRACKET | X | X |  | X |  | X |  |
| ＞＞ | RIGHT DOUBLE ANGLE BRACKET |  |  |  | X |  | X |  |
| 」 | RIGHT DOUBLE HOOK BRACKET |  |  |  |  |  | X |  |
| ＂ | RIGHT DOUBLE QUOTATION MARK |  | X |  | X |  | X |  |
| 」 | RIGHT HOOK BRACKET |  |  |  |  |  | X | X |
| ） | RIGHT PARENTHESIS | X | X | X | X |  | X |  |
| ， | RIGHT SINGLE QUOTATION MARK |  | X |  | X |  | X |  |
| ］ | RIGHT SQUARE BRACKET | X | X |  | X |  | X |  |
| ） | RIGHT TORTOISE－SHELL BRACKET |  | X |  |  |  | X |  |
| $\rightarrow$ | RIGHTWARD ARROW |  | X |  | X |  | X |  |
| § | SECTION SYMBOL |  |  |  |  |  | X |  |
| $\square$ | SQUARE |  | X |  |  |  | X |  |
| $\triangle$ | TRIANGLE |  | X |  |  |  | X |  |
| $\uparrow$ | UPWARD ARROW |  | X |  | X |  | X |  |
| ｜ | VERTICAL LINE |  | X |  | X |  |  |  |
| $\bigcirc$ | WHITE CIRCLE |  | X |  |  |  | X |  |
| $\cdots$ | WHITE STAR |  | X |  |  |  | X |  |


| Graphic | Name or description | Character set |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ARB | CHN | CYR | GRK | HEB | JKN | JKT |
| , | ACUTE ACCENT |  | X |  |  |  | X |  |
| , | GREEK TONOS |  | X |  | X |  | X |  |
| , | ARABIC DAMMAH | X |  |  |  |  |  |  |
| " | ARABIC DAMMATAN | X |  |  |  |  |  |  |
| î | ARABIC FAT'HA | X |  |  |  |  |  |  |
| ë | ARABIC FAT'HATAN | X |  |  |  |  |  |  |
| б | ARABIC KASRAH | X |  |  |  |  |  |  |
| í | arabic Kasratan | X |  |  |  |  |  |  |
| กี | ARABIC SHADDAH | X |  |  |  |  |  |  |
| ò | ARABIC SUKUN | X |  |  |  |  |  |  |
| - | CIRCUMFLEX ACCENT | X | X |  | X |  | X |  |
| - | GREEK DIALYTIKA, UMLAUT, ACCENT |  | X |  | X |  | X |  |
| * | GREEK DIALYTIKA TONOS |  |  |  | X |  | X |  |
| , | GRAVE ACCENT |  | X |  |  |  | X |  |
| - | MACRON |  | X |  |  |  | X |  |

## $7 \quad$ Non-Latin character sets

Most applications and telematic services don't need all the graphic characters defined in this Recommendation. In addition, there often exists limitations, such as usage of 7 -bit or 8 -bit characters which limits the number of characters which can be represented. The sets defined in this Recommendation are a collection of the existing non-Latin character sets currently in use within the CCITT. The sets described in this Recommendation cover issues such as

- the general usage of the set;
- designation sequences;
- structure of the set.

NOTE - All future non-Latin sets should be defined within the framework outlined in this Recommendation.

### 7.1 The Arabic set of graphic characters

### 7.1.1 Structure of the Arabic set

The Arabic primary character set defined in this Recommendation consists of the characters defined in ASMO 449. It is a 94 graphic character set to be used in a 7 -bit environment.

The set consists of
a) 36 letters of the Arabic alphabet;
b) 8 Arabic diacritical marks;
c) non-alphabetic characters, listed in chapter 6 , which comprise

1) decimal digits consisting of the numbers 0 to 9 ;
2) currency sign;
3) 10 punctuation marks;
4) 4 scientific signs;
5) 15 miscellaneous symbols;
6) 1 diacritical mark;
7) Arabic TATWEEL.

### 7.1.2 Designation sequences

The Arabic primary set (registration No. 89) of graphic characters can be designated using the following designation sequences:

ESC 02/08 06/11 Arabic set (G0)
ESC 02/09 06/11 Arabic set (G1)
ESC 02/10 06/11 Arabic set (G2)
ESC 02/11 06/11 Arabic set (G3)

### 7.1.3 Usage of the Arabic character set

The Arabic character set can be used in the following telematic services:

- the videotex service, in conjunction with Recommendation T. 101 DS II;
- the teletex service, in conjunction with Recommendation T.61.


### 7.2 The Chinese graphic character set for telecommunication

### 7.2.1 Notation

There are two kinds of two-byte codes for Chinese characters, namely the two 7-bit byte code and the two 8-bit byte code. The capacity of the 7 -bit and 8 -bit code tables is $94 \times 94$ and $4 \times 94 \times 94$, respectively.

### 7.2.2 Code table

The Chinese graphic character set for telecommunication uses two 7-bit byte code. It consists of 8444 characters located in a $94 \times 94$ code table.

### 7.2.3 Structure of the Chinese set

The Chinese character set consists of 8444 characters. Its aim is to satisfy the need for Chinese character communications using a multiple byte character set.

The Chinese character set is a combination of the following Chinese national standards:
a) GB 2312
b) GB 8565.2

The character set comprises
a) General characters

There are 224 general characters, including SPACE, punctuation marks, arithmetic signs, unit marks, tabulation marks and background characters.
b) Ordinal numbers

There are 60 ordinal numbers, 20 of them from 1. to 20 . (digits with a period), 20 from (1) to (20), 10 from 1 to 10 (encircled numbers) and 10 from ( - ) to ( + ) (positions $02 / 69$ to $02 / 78$ ).
c) Numerical characters

There are 22 numerical characters of which 10 digits are from 0 to 9 and 12 are from I to XII.
d) Latin alphabet

There are 52 Latin letters, including 26 capital letters from A to Z and 26 small letters from a to z .
e) Japanese Kana

There are 169 Japanese Kana, including 83 Hiragana and 86 Katakana characters.
f) Greek alphabet

There are 49 Greek letters, including 24 capital letters from A to $\Omega$ and 25 small letters from $\alpha$ to $\varsigma$.
g) Cyrillic alphabet

There are 66 Cyrillic letters, including 33 capital letters and 33 small letters.
h) Chinese phonetic symbols

There are 26 Chinese phonetic symbols and 6 special syllable characters.
i) Chinese phonetic-annotated letter

There are 37 Chinese-annotated letters.
j) Half-width graphic characters

There are 126 half-width graphic characters, including 94 general characters and the 34 Chinese phonetic symbols.
k) Chinese characters

There are 7607 Chinese characters, including 6763 GB 2312 Chinese characters, the 705 GB 8565.2 Chinese characters and 139 general Chinese characters and variants.

1) Empty positions

Row numbers $88-89$ are empty positions which may be used to define the corresponding simplified versions for the complex forms of Chinese characters.

The code table should be typed in section/position layout and additionally expressed in hexadecimal number (see Figure 7-1).


## Layout of the Chinese set

### 7.2.4 Designation sequences

The Chinese set of graphic characters can be designated using the following designation sequences:
ESC 02/04 02/08 04/05 Chinese set (G0)
ESC 02/04 02/09 05/05 Chinese set (G1)
ESC 02/04 02/10 04/05 Chinese set (G2)
ESC 02/04 02/11 04/05 Chinese set (G3)

### 7.2.5 Usage of the Chinese character set

The Chinese character set can be used in the following telematic services:

- the videotex service, in conjunction with Recommendation T. 101 DS II;
- the teletex service, in conjunction with Recommendation T.61.


### 7.3 The Cyrillic set of graphic characters

### 7.3.1 Structure of the Cyrillic set

The Cyrillic character set consists of
a) 94 cyrillic capital and lower case letters;
b) two presentation control characters (SHY, NBSP).

### 7.3.2 Designation sequences

The Cyrillic set contains:
a) the full Cyrillic set;
b) the Russian set which is a subset of the Cyrillic set.

### 7.3.2.1 Cyrillic set-designation sequences

The Cyrillic supplementary set of graphic characters (registration No. 144) can be designated using the following designation sequences:

ESC 02/13 04/12 Cyrillic supplementary set (G1)
ESC 02/14 04/12 Cyrillic supplementary set (G2)
ESC 02/15 04/12 Cyrillic supplementary set (G3)

### 7.3.2 2 Russian set-designation sequences

The Russian set (registration No. 153), which is a subset of the Cyrillic supplementary set of graphic characters (registration No. 144), can be designated using the following designation sequences:

ESC 02/13 04/15 Russian supplementary set (G1)
ESC 02/14 04/15 Russian supplementary set (G2)
ESC 02/15 04/15 Russian supplementary set (G3)
Specifically, Registration No. 153 occupies positions $02 / 00$ to $02 / 01,02 / 13,03 / 00$ to $06 / 15$ and $07 / 01$ of the Cyrillic set defined by Registration No. 144.

### 7.3.3 Usage of the Cyrillic and Russian supplementary character set

The Cyrillic and Russian character set can be used in the following telematic services:

- the teletex service, in conjunction with Recommendation T.61;
- the videotex service, in conjunction with Recommendation T.101.


### 7.4 The Greek set of graphic characters

### 7.4.1 Structure of the Greek primary set

The Greek primary character set defined in this Recommendation consists of the most frequently used alphanumeric characters and punctuation marks. It is a 94 graphic character set to be used in either a 7 -bit or 8-bit environment.

The set consists of
a) 49 letters of the Greek alphabet;
b) accented letters, the graphical representations of which consist of combination of the basic Greek letters and diacritical marks;
c) non-alphabetic characters, listed in chapter 6, which comprise decimal digits, currency signs, punctuation marks (including SPACE), diacritical marks, arithmetic signs, subscript and superscripts, fraction, miscellaneous symbols that have special meanings and non-spacing characters.

### 7.4.2 Designation sequences of the Greek primary set

The Greek primary set (Registration No. 150) of graphic characters can be designated using the following designation sequences:

ESC 02/08 02/01 04/00 Greek primary set (G0)
ESC 02/09 02/01 04/00 Greek primary set (G1)
ESC 02/10 02/01 04/00 Greek primary set (G2)
ESC 02/11 02/01 04/00 Greek primary set (G3)

### 7.4.3 Usage of the Greek character set

### 7.4.3.1 Usage of the Greek primary set

The Greek character set can be used in the following telematic services:

- the teletex service described in Recommendation T.61;
- the videotex service described in Recommendation T. 101 DS II.


### 7.4.3.2 Usage of the Greek supplementary set

The supplementary set as currently used for Greek is defined in the following Recommendations:

- the teletex service described in Recommendation T.61;
- the videotex service described in Recommendation T. 101 DS II.

This can be regarded as a superset of the Greek supplementary set as shown in 8.6.

### 7.5 The Hebrew set of graphic characters

### 7.5.1 Structure of the Hebrew set

The repertoire of the Hebrew graphic characters defined in this Recommendation consists of the 27 letters of the basic Hebrew alphabet.

### 7.5.2 Designation sequences

The Hebrew supplementary set (registration No. 164) of graphic characters can be designated using the following designation sequences:

ESC 02/13 05/03 Hebrew supplementary set (G1)
ESC 02/14 05/03 Hebrew supplementary set (G2)
ESC 02/15 05/03 Hebrew supplementary set (G3)

### 7.5.3 Usage of the Hebrew set

The Hebrew character set can be used in the following telematic services:

- the teletex service, in conjunction with Recommendation T.61;
- the videotex service, in conjunction with Recommendation T. 101 DS II and III.


### 7.6 The Japanese-Kanji set of graphic characters

### 7.6.1 Structure of the Japanese-Kanji set

The Japanese-Kanji character set consists of
a) General graphic characters

This group comprises of 147 characters including punctuation marks, arithmetic symbols, logical symbols and miscellaneous graphic characters.
b) Digits

This group comprises the 10 Arabic digits ZERO to NINE.
c) Latin characters

This group comprises the 26 capital letters A to Z and the 26 small letters a to z .
d) Hiragana characters

This group comprises 83 Hiragana characters.
e) Katakana characters

This group comprises the 86 Katakana characters.
f) Greek alphabet

This group comprises the 24 capital letters A to $\Omega$ and 24 small letters $\alpha$ to $\omega$ (The Greek small letter FINAL SIGMA is not included).
g) Cyrillic alphabet

This group comprises the 33 capital letters A to YA and the 33 small letters A to YA.
h) Kanji characters

This group comprises the 6355 Kanji characters.
i) Line drawing characters

This group comprises 32 line drawing characters.
j) Empty positions

The 1959 positions to which no character is allocated shall not be used.
The Japanese-Kanji code table comprises of 12 different sections in order to accomodate the page size. The Japanese-Kanji structure is described in Figure 7-2.

### 7.6.2 Designation sequences

The Japanese-Kanji (registration No. 168) set of graphic characters can be designated using the following designation sequences:

ESC 02/06 04/00 ESC 02/04 04/02 Japanese-Kanji set (G0)
ESC 02/06 04/00 ESC 02/04 02/09 04/02 Japanese-Kanji set (G1)
ESC 02/06 04/00 ESC 02/04 02/10 04/02 Japanese-Kanji set (G2)
ESC 02/06 04/00 ESC 02/04 02/11 04/02 Japanese-Kanji set (G3)
These designation sequences are defined according to ISO 2022-1986, in which the Intermediate Byte 04/00 means Revision number 1. This set is a revised version of JIS X 0208-1990 in which two new characters were added in locations $84 / 05$ and $84 / 06$. The designation of this code table is identical with the one of registration No. 87 plus the additional two characters (see also Note 2 in Annex A). Note that ESC $02 / 04+04 / 02$ represents the invocation sequence for registration No. 87.

|  | 1 |  | 23 | 24 |  | 47 | 48 |  | 71 | 72 |  | 94 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | 1 |  |  | 2 |  |  | 3 |  |  | 4 |  |
| 31 |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 5 |  |  | 6 |  |  | 7 |  |  | 8 |  |
| 63 |  |  |  |  |  |  |  |  |  |  |  |  |
| 64 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 9 |  |  | 10 |  |  | 11 |  |  | 12 |  |
| 94 |  |  |  |  |  |  |  |  |  |  |  |  |

## Layout of the Japanese-Kanji set

### 7.6.3 Usage of the Japanese-Kanji set

The Japanese-Kanji character set defines the total of 6879 characters. The Japanese-Kanji character set is based on JIS X 0208-1990 in which two new characters were added on location 84/05 and 84/06 in the code table of registration No. 87.

The Japanese-Kanji character set can be used in the following telematic services:

- the teletex service, in conjunction with Recommendation T.61;
- the videotex service, in conjunction with Recommendation T. 101 DS I.


### 7.7 The Japanese-Katakana set of graphic characters

### 7.7.1 Structure of the Japanese-Katakana set

The Japanese-Katakana set defines 63 Japanese phonetic signs. A Katakana character is represented by a single byte code.

### 7.7.2 Designation sequences

The Japanese-Katakana set (registration No. 13) of graphic characters can be designated using the following designation sequences:

ESC 02/08 04/09 Japanese-Katakana set (G0)
ESC 02/09 04/09 Japanese-Katakana set (G1)
ESC 02/10 04/09 Japanese-Katakana set (G2)
ESC 02/11 04/09 Japanese-Katakana set (G3)

### 7.7.3 Usage of the Japanese-Katakana set

The Japanese-Katakana character set can be used in the following telematic service:

- the videotex service, in conjunction with Recommendation T. 101 DS I.


## 8 Coded representation of non-Latin graphic character sets

### 8.1 General

This clause contains the specification of the following character sets:

- the Arabic character set;
- the Chinese character set;
- the Cyrillic character set;
- the Greek character set;
- the Hebrew character set;
- the Japanese-Kanji character set;
- the Japanese-Katakana character set.

For each character set this Recommendation defines two items:
a) a code table;
b) a list of the characters defined in tabular form with the exception of the Chinese and Japanese-Kanji sets.

Each list consists of a table with the following entries:

- the first column describes whether it belongs to the primary (P) or supplementary (S) set;
- the second column identifies the position of the character in the code table using the notation of $\mathrm{xx} / \mathrm{yy}$ described in 5;
- the third column describes the name or description of the character.


### 8.2 The Arabic primary set

Name:
Registration:

ARABIC PRIMARY SET
No. 89
Number of characters: 94

|  |  |  |  | $\mathrm{b}_{7}$ | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\mathrm{b}_{6}$ | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
|  |  |  |  | $\mathrm{b}_{5}$ | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| $\mathrm{b}_{4}$ | $\mathrm{b}_{3}$ | $\mathrm{b}_{2}$ | $\mathrm{b}_{1}$ |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 0 | 0 | 0 | 00 |  |  |  | 0 | @ | Đ | $\beta$ | б |
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| 0 | 0 | 1 | 0 | 02 |  |  | " | 2 | Â | Ò | â | ò |
| 0 | 0 | 1 | 1 | 03 |  |  | \# | 3 | Ã | Ó | ã |  |
| 0 | 1 | 0 | 0 | 04 |  |  | 0 | 4 | Ä | Ô | ä |  |
| 0 | 1 | 0 | 1 | 05 |  |  | \% | 5 | Å | Õ | å |  |
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| $\mathrm{P} / \mathrm{S}$ | Bit comb. | Name or description | P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| P | 02/00 | THIS POSITION SHALL NOT BE USED | P | 05/00 | ARABIC LETTER THAL |
| P | 02/01 | EXCLAMATION MARK | P | 05/01 | ARABIC LETTER RA |
| P | 02/02 | QUOTATION MARK, DIAERESIS | P | 05/02 | ARABIC LETTER ZAIN |
| P | 02/03 | NUMBER SIGN | P | 05/03 | ARABIC LETTER SEEN |
| P | 02/04 | GENERAL CURRENCY SIGN | P | 05/04 | ARABIC LETTER SHEEN |
| P | 02/05 | PERCENT SIGN | P | 05/05 | ARABIC LETTER SAD |
| P | 02/06 | AMPERSAND | P | 05/06 | ARABIC LETTER DAD |
| P | 02/07 | APOSTROPHE | P | 05/07 | ARABIC LETTER TAH |
| P | 02/08 | RIGHT PARENTHESIS | P | 05/08 | ARABIC LETTER DHAH |
| P | 02/09 | LEFT PARENTHESIS | P | 05/09 | ARABIC LETTER AIN |
| P | 02/10 | ASTERISK | P | 05/10 | ARABIC LETTER GHAIN |
| P | 02/11 | PLUS SIGN | P | 05/11 | RIGHT SQUARE BRACKET |
| P | 02/12 | ARABIC COMMA | P | 05/12 | REVERSE SOLIDUS |
| P | 02/13 | MINUS SIGN | P | 05/13 | LEFT SQUARE BRACKET |
| P | 02/14 | FULL STOP, PERIOD | P | 05/14 | CIRCUMFLEX ACCENT |
| P | 02/15 | SOLIDUS, DIVISION SIGN | P | 05/15 | LOW LINE |
| P | 03/00 | DIGIT ZERO | P | 06/00 | ARABIC TATWEEL |
| P | 03/01 | DIGIT ONE | P | 06/01 | ARABIC LETTER FA |
| P | 03/02 | DIGIT TWO | P | 06/02 | ARABIC LETTER QAF |
| P | 03/03 | DIGIT THREE | P | 06/03 | ARABIC LETTER CAF |
| P | 03/04 | DIGIT FOUR | P | 06/04 | ARABIC LETTER LAM |
| P | 03/05 | DIGIT FIVE | P | 06/05 | ARABIC LETTER MEEM |
| P | 03/06 | DIGIT SIX | P | 06/06 | ARABIC LETTER NOON |
| P | 03/07 | DIGIT SEVEN | P | 06/07 | ARABIC LETTER HA |
| P | 03/08 | DIGIT EIGHT | P | 06/08 | ARABIC LETTER WAW |
| P | 03/09 | DIGIT NINE | P | 06/09 | ARABIC LETTER ALEF MAQSURA |
| P | 03/10 | COLON | P | 06/10 | ARABIC LETTER YA |
| P | 03/11 | ARABIC SEMI-COLON | P | 06/11 | ARABIC FAT'HATAN |
| P | 03/12 | ARABIC LESS-THAN SIGN | P | 06/12 | ARABIC DAMMATAN |
| P | 03/13 | EQUALS SIGN | P | 06/13 | ARABIC KASRATAN |
| P | 03/14 | ARABIC GREATER-THAN SIGN | P | 06/14 | ARABIC FAT'HA |
| P | 03/15 | ARABIC QUESTION MARK | P | 06/15 | ARABIC DAMMAH |
| P | 04/00 | COMMERCIAL AT | P | 07/00 | ARABIC KASRAH |
| P | 04/01 | ARABIC LETTER HAMZAH | P | 07/01 | ARABIC SHADDAH |
| P | 04/02 | ARABIC LETTER MADDAH ON ALEF | P | 07/02 | ARABIC SUKUN |
| P | 04/03 | ARABIC LETTER HAMZAH ON ALEF | P | 07/03 | THIS POSITION SHALL NOT BE USED |
| P | 04/04 | ARABIC LETTER HAMZAH ON WAW | P | 07/04 | THIS POSITION SHALL NOT BE USED |
| P | 04/05 | ARABIC LETTER HAMZAH UNDER ALEF | P | 07/05 | THIS POSITION SHALL NOT BE USED |
| P | 04/06 | ARABIC LETTER HAMZAH ON YA | P | 07/06 | THIS POSITION SHALL NOT BE USED |
| P | 04/07 | ARABIC LETTER ALEF | P | 07/07 | THIS POSITION SHALL NOT BE USED |
| P | 04/08 | ARABIC LETTER BA | P | 07/08 | THIS POSITION SHALL NOT BE USED |
| P | 04/09 | ARABIC LETTER TA MARBUTA | P | 07/09 | THIS POSITION SHALL NOT BE USED |
| P | 04/10 | ARABIC LETTER TA | P | 07/10 | THIS POSITION SHALL NOT BE USED |
| P | 04/11 | ARABIC LETTER THA | P | 07/11 | RIGHT CURLY BRACKET |
| P | 04/12 | ARABIC LETTER JEEM | P | 07/12 | VERTICAL LINE |
| P | 04/13 | ARABIC LETTER HA | P | 07/13 | LEFT CURLY BRACKET |
| P | 04/14 | ARABIC LETTER KHA | P | 07/14 | OVERLINE |
| P | 04/15 | ARABIC LETTER DAL | P | 07/15 | THIS POSITION SHALL NOT BE USED |

## 8.3

Name:
CHINESE SET

Registration:
No. 165

Number of characters: 8444 (multi-byte)









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|  |  | 溣 | 热 | 野 | 踒 | 朌 | 兌 | 据 | 台 | 泰 | 酸 | 太 | 态 | 汰 | 均 | 推 | 贪 |  |  |  |
| 1139 | 檣 | 疾 | 潭 | 浢 | 谈 | 坦 | 毯 | 祖 | 湠 | 探 | 叹 | 炭 | 汤 | 塘 | 搪 | 堂 |  | 膛 | 唐 | 榑 |
|  | 1 ［34 | 4035 | $4[31$ | 4 C 31 | $4 \mathrm{C38}$ | 4039 | 4［3］ | ［ 3 B | 4010 | 4131 | 4 B | 409 | 4010 | 464 | $4{ }^{1} 12$ | 404 | 414 | 4C．4 | 4046 |  |
| 39 | 倘 | 躺 | 淌 | 趙 | 澐 | 擉 | 涛 | 滔 | 㭃 | 萄 | 桃 | 逃 | 淘 | 陶 | 讨 | 㮣， | 特 | 藤 | 腾 | 疼 |
|  | 4C18 | 4C4） | cis | ${ }^{4} \mathrm{CLB}$ | 4 Cl | 1（1） | 4c18 | 1615 | （c5） | 465 | 45.2 | 461 |  | 163 | 4651 | C5i | 4 c 38 | 4059 | 4554 | 1 CSB |
| i6． 19 | 墑 | 梯 | 剔 | $\begin{aligned} & \text { 踢 } \end{aligned}$ | l 10 | 暒 | $\frac{1}{4} \frac{1}{4} \mathrm{Cb} \text { ? }$ | $\frac{\text { 鍗 }}{10 i t}$ | 啼 | 体 |  | 噮 | 揭 | 涕 | 㓭 | $\begin{aligned} & \text { 酋 } \end{aligned}$ | 天 |  | 垻 | 田 |
| 40：4 | 甜 | 恬 | 䤂 | 䐟 | 排 | 第 | 迢 | 眺 | 跳 | 贴 | 铁 | 帖 | 厅 | 听 | 経 |  |  |  |  |  |
|  | 46 | 4 Cil | 46 | 403 | $\mathrm{CiF}_{4}$ | 17 | 4075 |  | 469 | 467 | $\left.4 c^{2}\right]$ | 4tis | dic | 4 Cil | 4 ct |  |  |  |  |  |













| $\frac{34 \times}{11!1!}$ |  | $\overline{7_{2}}$ | $\prod_{102}^{10}$ | $\frac{03}{\prod_{506}^{\prime}}$ | $\begin{aligned} & 111 \\ & \frac{51}{5} \\ & 5124 \end{aligned}$ | 廿 | $\begin{aligned} & \text { y } \\ & \text { 龷 } \\ & 546 \end{aligned}$ |  |  | 丞圽 | $\begin{aligned} & \text { 鬲 } 4 \end{aligned}$ | $\begin{aligned} & \text { 季 } \\ & 512 \mathrm{~B} \end{aligned}$ |  |  | 禺 | 36 ！ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 031 | 辰 | 氐 | 离 | 成 | 自 | 皎 | 宰 | 翟 |  | 予 | 碚 | せ |  | $\bar{\pi}$ | 韭 | 孛 |  |  |  |  | 厍 |
|  | 5134 | 5835 | 3114 | 5817 | 5138 | $5 \mid 31$ | ［31 | j831 | 3136 | 513D | 581］ | 513 F |  | 5111 | 514 | 384 | ， | 析 |  |  | 51 |
| ［f） 5 | 厝 | 辰 | 嚴 | 磁 | 㚜 | 皊 | ᄃ | 區 | 聞 | 國 | 匾 | 綪 | 卦 | 占 | 1 | 刈 | 别 | 到 |  | 年 | 刿 |
|  | 5148 | 504 | \％ 4 | 518 | 5146 | 11］ | 5148 | 通限 | 1151 | 515 | 58id | 5153 | ｜il | 5455 | jtit | 385 | 5 | 51 |  | 15 | 58 |
| （1） | 剀 | 刺 | 創 | 缡 | 哰 | 犁 | 劓 | 㮄 | 䳡 | 繁 | 㓷 | $\square$ | 图 | 1 | 仃 | 伅 | 仡 |  |  |  | 1 |
|  | Sbit | 5850 | jut | 5898 | 5888 | ： 81 | 186 | 586 | 514 | 516 | 5115 | 5167 | b | 361 | jith | 5418 | d |  |  |  |  |
| 10：19 | 灱 | 伛 | 化 | 伢 | 侕 | 作 | 侲 | 伦 |  | H | 诸 | 㑐 | 敏 | 佚 | 佝 |  |  |  |  |  |  |





















| 14区 |  | 11 | 82 | J | 1 | 帾 | 01 | ， | 1 | 19 | 11 |  |  |  | 矿 | 15 |  |  | 11 | 部 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01.11 |  | 䎝 | 辐 | 辏 | 硍 | 喽 | 㝒 | 垄 | 戗 | 夏 | 旿 | 裁 | 卙 | 㛫 | 瀻 | 敬 | 喊 | 比 | 领 | 薪 |
|  |  | 6起 | 6羂 | 6觡了 | 1234 | 6425 | 6191 | 1ntl | WAl | Wh2 | 6的的 | 6438 | Wht | 0321 | 6， 242 | 612F | 6830 | 64？ 1 | 6A3？ | $1{ }^{1} 3$ |
| 20.31 | 锣 | 㲂 | 䭌 | 支 | 旮 | 㫛 | 旰 | 旲 | 夏 | 澘 | 是 | 昕 | 昒 | 是 | 易 | 㱰 | 星 | 景 | 䄽 | 昵 |
|  | （1）1 | 6月35 | 6， 36 | ［3i | 1 I 1 | （63） | 1338 | 143B | WB］［ | 1月3］ | 6的 | What | 684 | 64t． | 1442 | 6月13 | Wh4 | 6145 | 6.46 | 6，${ }^{\text {d }}$ |
| 41251 | 䎛 | 搨 | 時 | 兎 | 晏 | 晖 | 晡 | 晗 | 智 | 暄 | 溻 | 喓 | 暸 | 敵 | 獍 | 曜 | 摬 | 是 | 尞 | 萝 |
|  | 1种 | （ ${ }^{4} 4$ | 614 | hat | 6115 | 6140 | batE | 14F | Hisill | ｜ 451 | 6．55？ | 6153 | bist | 6．5 | 1.156 | 135 | 64.58 | 649 | 6154 | ． |
| 611：7！ | 贶 | 贻 | 贽 | 貲 | 犮亥 | 頃 | 陦 | 荝 | 赇 | 赞 | 赕 | 赙 | 沾 | 凯 | 现 | 効 | 敵 | 部 | 勤 | 䖊 |
|  | Qfe | 6．35 | 61515 | 6AjE | 6198 | Sill | 646\％ | （16） | ［1did | Wat | $6{ }^{6} 6$ | 6.467 | 1311 | 1665 | flas | 1768 | 646. | 6.60 | 6415 | 析 |
| 811： 14 | 华 | 翠 | 牰 | 特 | 特 | 牾 | 牯 | 犄 | 犋 | 䊕 | 僱 | 嵪 | 摮 | 笔 | 班 |  |  |  |  |  |
|  | $1 \mathrm{H}^{9} 9$ | bril | 14？ | 6.13 | 6！${ }^{\text {a }}$ | Whij |  | blit | 6月ia | 6．il！ | 6919 | 6318 | ilic | 6， 70 | 6！？ |  |  |  |  |  |



| $16 \times$ |  | 11 | $0 \%$ | 01 | 11 | 碞 | 11 | 11 | 08 | 09 | ， |  | 12 | I | 14 | 1 | 16 |  |  |  |
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| 11：19 |  | 滕 | 膦 | 脜 | 歌 | 歌 |  | 㰴 | 敏 | 狍 | 㚯 | 颶 | 成 | 銳 | 践 | 攵 | 殺 | 垁 | 狡 | 斐 |
|  |  |  | S［2\％ | 1023 | H04 | itis | 1 16 | $6{ }^{6} \mathrm{C}$ | lia | 163 | ［14 | hCob | $6 \mathrm{CO}^{6}$ | 6CD | 6［ | hcif | WC3］ | 3 l 1 | 60 ${ }^{\text {d }}$ | ［13 |
| 213 | 覑 | 㸚 | 於 | 施 | 族 | 砤 | 旌 | 施 | 㤰 | 㣮 | 炀 | 炜 | 炖 | 炝 | 炻 | 抨 | 炷 | 接 | 㕣 | 炸 |
|  | bid | 1035 | icia | 1 CJi | 6 Cl 3 | $0{ }^{1} 9$ | C13 | SC3B | 6 Cl ［ | Cil | ¢ $\mathrm{Cl}^{\text {d }}$ | WCJ | fictil | ） | 6C．42 | HCL | hC．${ }^{\text {d }}$ | 164， | 60.46 | 607 |
| 410 ${ }^{1}$ | 样 | 焐 | 焓 | 施 | 焯 | 籏 | 煳 | 焻 | 煨 | 煅 | 保 | 椬 | 煸 | 煺 | 㽞 | 嫚 | 嫡 | 楽 | 晛 |  |
|  | hch | 164］ | fcat | 1C4B | Wide | 6cid | FCit | 6作 | 万¢0 | cil | 万6j | HC5 | 6 CH 1 | j65s | 6156 | ［Ci7 | 6 CH | SC5 | CC5 | 6 65b |
| ［1］ 19 | 頪 | 㬝 | 敄 | 㩊 | 閣 | $\cdots$ | 寿 | 時 | 喜 | 戻 | 序 | 佰 | 宮 | 扉 | 市 | 杜 | 说 | 新 | 抾 | 竦 |
|  | 事为 | ［C5］ | 6JE | bect | HCill | 6Cil | 6Cb | ［C63 | 6 Cl 4 | icis | ichí | 4 CbT | SC0 ${ }^{\text {d }}$ | iCit | 6Cta | 6 CB | 6Ch： | 5［6］ | TSE | E |
| AI） 1 | 袯 | 祚 | 袮 | 䄔 | 祠 | 袩 | 兆 | 谥 | 掸 | 缺 | 禚 | 禧 |  |  |  |  |  |  |  |  |
|  | 610 | （6） | 6 Ci 2 | 3m？ | ilit | 1075 | 6fil | lici？ | blin | （Cil | CCid | 6Cib | SCic | ［Cill | ILE |  |  |  |  |  |





| $\frac{4 区}{\\| 1:!!}$ |  | 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | 稹 |  |  | 煮 | 箵 | 䅹 | 䛀 |  |  | 晢 | 璠 | 附 | 矩 | 甬 | 鸭 | 䯩 | 潟 |  |  |
|  |  | i011 | $1024$ |  | 1024 | 176 | 9136 | ${ }^{101}$ | 7048 | ${ }^{114}$ |  | il2 ${ }^{\text {d }}$ | 102 C | 1811 | i02t | ilif | 1030 | 111 | 跔 |  |
|  | 1113 | 1035 | in！ | 1011 | 131 | 1月1） | 103 | ${ }^{\text {相 }}$ | H10 | 1113 | 111 | 的3F | IIIU | ［1］ | 042 | \％11 | 104 | $1{ }^{10} 4$ |  |  |
| 41； \％$^{\text {a }}$ | 鹑 | 鿾 | 鹗 | 鹖 | 沜 | 䖿 | 鸹 | 鹈 | 烤 | 鹤 | 鸩 | 缹 | 鹤 | 圱 | 箵 | 殧 | 鸳 | 鸲 | \％ | J |
|  | 1018 | 1019 | illa | 1018 | it［ | ill 4 | 12 | Hip | 7059 | 1031 | 105\％ | 10.53 | 1054 | i055 | 235 | ilit | 1051 | 1019 | 103 | 158 |
| 60.9 | 疦 | 疗 | 病 | 痛 | 病 | 瘄 | 疴 | 疸 | 痤 | 疱 | 痤 | 痏 | 拹 | 痖 | 瘃 | 痤 | 谤 | 度 | 痤 |  |
|  | 1050 | 1051 | ilit | 1057 | illil | illa | ith？ | 1 m 3 | 704 | iliij | 306 | 2061 | 106 | 1164 | ifl | NILI | i0ht | WED |  |  |
| 810：4 | 榢。 | 病 | 痤 | 痛 | 㾌 | 掼 | 療 | 痺 | 癠 | 瘏 |  | 凖 | 瘘 |  | 痋 |  |  |  |  |  |
|  | ilio | 1071 | 1812 | 1193 |  |  |  |  |  |  |  | iili | in＇t | ilia |  |  |  |  |  |  |















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 \# 4






### 8.4 The Cyrillic supplementary set

Name:
Registration:
Number of characters:

Cyrillic supplementary set

No. 144

96

|  |  |  |  | \| ${ }_{\text {b }} \mathrm{b}_{7} \mathrm{~b}_{6}$ | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
|  |  |  |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  | $\mathrm{b}_{2}$ | $\mathrm{b}_{1}$ |  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 0 | 0 | 0 |  | 00 |  |  | NBSP | A | P | a | ð | № |
| 0 | 0 | 0 | 1 | 01 |  |  | Ë | Б | C | б | ñ | ë |
| 0 | 0 | 1 | 0 | 02 |  |  | $€$ | B | T | B | ò |  |
| 0 | 0 | 1 | 1 | 03 |  |  | $\dot{\Gamma}$ | $\Gamma$ | Y | $\Gamma$ | Ó | '́ |
| 0 | 1 | 0 | 0 | 04 |  |  | E | Д | Ф | ä | Ô | $\epsilon$ |
| 0 | 1 | 0 | 1 | 05 |  |  | S | E | X | e | õ | S |
| 0 | 1 | 1 | 0 | 06 |  |  | I | \% | Ö | ж | Ö | i |
| 0 | 1 | 1 | 1 | 07 |  |  | Ï | 3 | $\times$ | Ç | $\div$ | ï |
| 1 | 0 | 0 | 0 | 08 |  |  | J | И | $\varnothing$ | è | $\varnothing$ | j |
| 1 | 0 | 0 | 1 | 09 |  |  | S | Й | Ù | é | ù | Š |
| 1 | 0 | 1 | 0 | 10 |  |  | OE | K | Ú | ê | ú | œ |
| 1 | 0 | 1 | 1 | 11 |  |  | Ž | Л | Û | ë | û | ž |
| 1 | 1 | 0 | 0 | 12 |  |  | Ḱ | M | Ü | ì | ü |  |
| 1 | 1 | 0 | 1 | 13 |  |  | SHY | H | Ý | í | ý | $\S$ |
| 1 | 1 | 1 | 0 | 14 |  |  | Ў | O | Ю | ̂̂ | p | y̆ |
| 1 |  | 1 | 1 | 15 |  |  |  | $\Pi$ | B | ï | $\ddot{y}$ | $\ddot{Y}$ |


| P/S | Bit comb. | Name or description | P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | 02/00 | NO-BREAK SPACE | S | 05/00 | CYRILLIC SMALL LETTER A |
| S | 02/01 | CYRILLIC CAPITAL LETTER IO | S | 05/01 | CYRILLIC SMALL LETTER BE |
| S | 02/02 | CYRILLIC CAPITAL LETTER DJE (Serbocroatian) | S | 05/02 | CYRILLIC SMALL LETTER VE |
| S | 02/03 | CYRILLIC CAPITAL LETTER GJE | S | 05/03 | CYRILLIC SMALL LETTER GHE |
| S | 02/04 | CYRILLIC CAPITAL LETTER IE (Ukrainian) | S | 05/04 | CYRILLIC SMALL LETTER DE |
| S | 02/05 | CYRILLIC CAPITAL LETTER DZE | S | 05/05 | CYRILLIC SMALL LETTER IE |
| S | 02/06 | CYRILLIC CAPITAL LETTER I (Byelorussian-Ukrainian) | S | 05/06 | CYRILLIC SMALL LETTER ZHE |
| S | 02/07 | CYRILLIC CAPITAL LETTER YI (Ukrainian) | S | 05/07 | CYRILLIC SMALL LETTER ZE |
| S | 02/08 | CYRILLIC CAPITAL LETTER JE | S | 05/08 | CYRILLIC SMALL LETTER I |
| S | 02/09 | CYRILLIC CAPITAL LETTER LJE | S | 05/09 | CYRILLIC SMALL LETTER SHORT I |
| S | 02/10 | CYRILLIC CAPITAL LETTER NJE | S | 05/10 | CYRILLIC SMALL LETTER KA |
| S | 02/11 | CYRILLIC CAPITAL LETTER TSHE (Serbocroatian) | S | 05/11 | CYRILLIC SMALL LETTER EL |
| S | 02/12 | CYRILLIC CAPITAL LETTER KJE | S | 05/12 | CYRILLIC SMALL LETTER EM |
| S | 02/13 | SOFT HYPHEN | S | 05/13 | CYRILLIC SMALL LETTER EN |
| S | 02/14 | CYRILLIC CAPITAL LETTER SHORT U (Byelorussian) | S | 05/14 | CYRILLIC SMALL LETTER O |
| S | 02/15 | CYRILLIC CAPITAL LETTER DZHE | S | 05/15 | CYRILLIC SMALL LETTER PE |
| S | 03/00 | CYRILLIC CAPITAL LETTER A | S | 06/00 | CYRILLIC SMALL LETTER ER |
| S | 03/01 | CYRILLIC CAPITAL LETTER BE | S | 06/01 | CYRILLIC SMALL LETTER ES |
| S | 03/02 | CYRILLIC CAPITAL LETTER VE | S | 06/02 | CYRILLIC SMALL LETTER TE |
| S | 03/03 | CYRILLIC CAPITAL LETTER GHE | S | 06/03 | CYRILLIC SMALL LETTER U |
| S | 03/04 | CYRILLIC CAPITAL LETTER DE | S | 06/04 | CYRILLIC SMALL LETTER EF |
| S | 03/05 | CYRILLIC CAPITAL LETTER IE | S | 06/05 | CYRILLIC SMALL LETTER HA |
| S | 03/06 | CYRILLIC CAPITAL LETTER ZHE | S | 06/06 | CYRILLIC SMALL LETTER TSE |
| S | 03/07 | CYRILLIC CAPITAL LETTER ZE | S | 06/07 | CYRILLIC SMALL LETTER CHE |
| S | 03/08 | CYRILLIC CAPITAL LETTER I | S | 06/08 | CYRILLIC SMALL LETTER SHA |
| S | 03/09 | CYRILLIC CAPITAL LETTER SHORT I | S | 06/09 | CYRILLIC SMALL LETTER SHCHA |
| S | 03/10 | CYRILLIC CAPITAL LETTER KA | S | 06/10 | CYRILLIC SMALL LETTER HARD SIGN |
| S | 03/11 | CYRILLIC CAPITAL LETTER EL | S | 06/11 | CYRILLIC SMALL LETTER YERU |
| S | 03/12 | CYRILLIC CAPITAL LETTER EM | S | 06/12 | CYRILLIC SMALL LETTER SOFT SIGN |
| S | 03/13 | CYRILLIC CAPITAL LETTER EN | S | 06/13 | CYRILLIC SMALL LETTER E |
| S | 03/14 | CYRILLIC CAPITAL LETTER O | S | 06/14 | CYRILLIC SMALL LETTER YU |
| S | 03/15 | CYRILLIC CAPITAL LETTER PE | S | 06/15 | CYRILLIC SMALL LETTER YA |
| S | 04/00 | CYRILLIC CAPITAL LETTER ER | S | 07/00 | NUMBER ACRONYM |
| S | 04/01 | CYRILLIC CAPITAL LETTER ES | S | 07/01 | CYRILLIC SMALL LETTER IO |
| S | 04/02 | CYRILLIC CAPITAL LETTER TE | S | 07/02 | CYRILLIC SMALL LETTER DJE (Serbocroatian) |
| S | 04/03 | CYRILLIC CAPITAL LETTER U | S | 07/03 | CYRILLIC SMALL LETTER GJE |
| S | 04/04 | CYRILLIC CAPITAL LETTER EF | S | 07/04 | CYRILLIC SMALL LETTER IE (Ukrainian) |
| S | 04/05 | CYRILLIC CAPITAL LETTER HA | S | 07/05 | CYRILLIC SMALL LETTER DZE |
| S | 04/06 | CYRILLIC CAPITAL LETTER TSE | S | 07/06 | CYRILLIC SMALL LETTER I (Byelorussian-Ukrainian) |
| S | 04/07 | CYRILLIC CAPITAL LETTER CHE | S | 07/07 | CYRILLIC SMALL LETTER YI (Ukrainian) |
| S | 04/08 | CYRILLIC CAPITAL LETTER SHA | S | 07/08 | CYRILLIC SMALL LETTER JE |
| S | 04/09 | CYRILLIC CAPITAL LETTER SHCHA | S | 07/09 | CYRILLIC SMALL LETTER LJE |
| S | 04/10 | CYRILLIC CAPITAL LETTER HARD SIGN | S | 07/10 | CYRILLIC SMALL LETTER NJE |
| S | 04/11 | CYRILLIC CAPITAL LETTER YERU | S | 07/11 | CYRILLIC SMALL LETTER TSHE (Serbocroatian) |
| S | 04/12 | CYRILLIC CAPITAL LETTER SOFT SIGN | S | 07/12 | CYRILLIC SMALL LETTER KJE |
| S | 04/13 | CYRILLIC CAPITAL LETTER E | S | 07/13 | PARAGRAPH SIGN |
| S | 04/14 | CYRILLIC CAPITAL LETTER YU | S | 07/14 | CYRILLIC SMALL LETTER SHORT U (Byelorussian) |
| S | 04/15 | CYRILLIC CAPITAL LETTER YA | S | 07/15 | CYRILLIC SMALL LETTER DZHE |

### 8.5 The Russian supplementary set

Name:

Registration:

Russian supplementary set
No. 153

Number of characters:<br>96

|  |  |  |  |  | 0 |  |  | 0 | 0 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\mathrm{b}_{6}$ | 0 |  |  | 1 | 1 | 0 | 0 | 1 | 1 |
|  |  |  |  | $\mathrm{b}_{5}$ |  |  |  | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  |  |  |  | 0 |  |  | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 0 | 0 | 0 | 00 |  |  |  | NBSP | A | P | a | ð |  |
| 0 | 0 | 0 | 1 | 01 |  |  |  | Ë | Б | C | б | ñ | ë |
| 0 | 0 | 1 | 0 | 02 |  |  |  |  | B | T | B- | Ò |  |
| 0 | 0 | 1 | 1 | 03 |  |  |  |  | $\Gamma$ | y | $\Gamma$ | Ó |  |
| 0 | 1 | 0 | 0 | 04 |  |  |  |  | Д | $\Phi$ | ä | Ô |  |
| 0 | 1 | 0 | 1 | 05 |  |  |  |  | E | X | e | õ |  |
| 0 | 1 | 1 | 0 | 06 |  |  |  |  | Ж | Ö | ж | Ö |  |
| 0 | 1 | 1 | 1 | 07 |  |  |  |  | 3 | $\times$ | Ç | $\div$ |  |
| 1 | 0 | 0 | 0 | 08 |  |  |  |  | И | $\varnothing$ | è | $\varnothing$ |  |
| 1 | 0 | 0 | 1 | 09 |  |  |  |  | Й | Ù | é | ù |  |
| 1 | 0 | 1 | 0 | 10 |  |  |  |  | K | Ú | ê | ú |  |
| 1 | 0 | 1 | 1 | 11 |  |  |  |  | Л | Û | ë | û |  |
| 1 | 1 | 0 | 0 | 12 |  |  |  |  | M | Ü | Ì | ü |  |
| 1 | 1 | 0 | 1 | 13 |  |  |  | SHY | H | Ý | í | ý |  |
| 1 | 1 | 1 | 0 | 14 |  |  |  |  | O | Ю | î | p |  |
| 1 | 1 | 1 | 1 | 15 |  |  |  |  | $\Pi$ | B | ï | $\ddot{\text { y }}$ |  |


| P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description | P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | 02/00 | NO-BREAK SPACE | S | 05/00 | CYRILLIC SMALL LETTER A |
| S | 02/01 | CYRILLIC CAPITAL LETTER IO | S | 05/01 | CYRILLIC SMALL LETTER BE |
| S | 02/02 | This position shall not be used | S | 05/02 | CYRILLIC SMALL LETTER VE |
| S | 02/03 | This position shall not be used | S | 05/03 | CYRILLIC SMALL LETTER GHE |
| S | 02/04 | This position shall not be used | S | 05/04 | CYRILLIC SMALL LETTER DE |
| S | 02/05 | This position shall not be used | S | 05/05 | CYRILLIC SMALL LETTER IE |
| S | 02/06 | This position shall not be used | S | 05/06 | CYRILLIC SMALL LETTER ZHE |
| S | 02/07 | This position shall not be used | S | 05/07 | CYRILLIC SMALL LETTER ZE |
| S | 02/08 | This position shall not be used | S | 05/08 | CYRILLIC SMALL LETTER I |
| S | 02/09 | This position shall not be used | S | 05/09 | CYRILLIC SMALL LETTER SHORT I |
| S | 02/10 | This position shall not be used | S | 05/10 | CYRILLIC SMALL LETTER KA |
| S | 02/11 | This position shall not be used | S | 05/11 | CYRILLIC SMALL LETTER EL |
| S | 02/12 | This position shall not be used | S | 05/12 | CYRILLIC SMALL LETTER EM |
| S | 02/13 | SOFT HYPHEN | S | 05/13 | CYRILLIC SMALL LETTER EN |
| S | 02/14 | This position shall not be used | S | 05/14 | CYRILLIC SMALL LETTER O |
| S | 02/15 | This position shall not be used | S | 05/15 | CYRILLIC SMALL LETTER PE |
| S | 03/00 | CYRILLIC CAPITAL LETTER A | S | 06/00 | CYRILLIC SMALL LETTER ER |
| S | 03/01 | CYRILLIC CAPITAL LETTER BE | S | 06/01 | CYRILLIC SMALL LETTER ES |
| S | 03/02 | CYRILLIC CAPITAL LETTER VE | S | 06/02 | CYRILLIC SMALL LETTER TE |
| S | 03/03 | CYRILLIC CAPITAL LETTER GHE | S | 06/03 | CYRILLIC SMALL LETTER U |
| S | 03/04 | CYRILLIC CAPITAL LETTER DE | S | 06/04 | CYRILLIC SMALL LETTER EF |
| S | 03/05 | CYRILLIC CAPITAL LETTER IE | S | 06/05 | CYRILLIC SMALL LETTER HA |
| S | 03/06 | CYRILLIC CAPITAL LETTER ZHE | S | 06/06 | CYRILLIC SMALL LETTER TSE |
| S | 03/07 | CYRILLIC CAPITAL LETTER ZE | S | 06/07 | CYRILLIC SMALL LETTER CHE |
| S | 03/08 | CYRILLIC CAPITAL LETTER I | S | 06/08 | CYRILLIC SMALL LETTER SHA |
| S | 03/09 | CYRILLIC CAPITAL LETTER SHORT I | S | 06/09 | CYRILLIC SMALL LETTER SHCHA |
| S | 03/10 | CYRILLIC CAPITAL LETTER KA | S | 06/10 | CYRILLIC SMALL LETTER HARD SIGN |
| S | 03/11 | CYRILLIC CAPITAL LETTER EL | S | 06/11 | CYRILLIC SMALL LETTER YERU |
| S | 03/12 | CYRILLIC CAPITAL LETTER EM | S | 06/12 | CYRILLIC SMALL LETTER SOFT SIGN |
| S | 03/13 | CYRILLIC CAPITAL LETTER EN | S | 06/13 | CYRILLIC SMALL LETTER OPEN E |
| S | 03/14 | CYRILLIC CAPITAL LETTER O | S | 06/14 | CYRILLIC SMALL LETTER YU |
| S | 03/15 | CYRILLIC CAPITAL LETTER PE | S | 06/15 | CYRILLIC SMALL LETTER YA |
| S | 04/00 | CYRILLIC CAPITAL LETTER ER | S | 07/00 | This position shall not be used |
| S | 04/01 | CYRILLIC CAPITAL LETTER ES | S | 07/01 | CYRILLIC SMALL LETTER IO |
| S | 04/02 | CYRILLIC CAPITAL LETTER TE | S | 07/02 | This position shall not be used |
| S | 04/03 | CYRILLIC CAPITAL LETTER U | S | 07/03 | This position shall not be used |
| S | 04/04 | CYRILLIC CAPITAL LETTER EF | S | 07/04 | This position shall not be used |
| S | 04/05 | CYRILLIC CAPITAL LETTER HA | S | 07/05 | This position shall not be used |
| S | 04/06 | CYRILLIC CAPITAL LETTER TSE | S | 07/06 | This position shall not be used |
| S | 04/07 | CYRILLIC CAPITAL LETTER CHE | S | 07/07 | This position shall not be used |
| S | 04/08 | CYRILLIC CAPITAL LETTER SHA | S | 07/08 | This position shall not be used |
| S | 04/09 | CYRILLIC CAPITAL LETTER SHCHA | S | 07/09 | This position shall not be used |
| S | 04/10 | CYRILLIC CAPITAL LETTER HARD SIGN | S | 07/10 | This position shall not be used |
| S | 04/11 | CYRILLIC CAPITAL LETTER YERU | S | 07/11 | This position shall not be used |
| S | 04/12 | CYRILLIC CAPITAL LETTER SOFT SIGN | S | 07/12 | This position shall not be used |
| S | 04/13 | CYRILLIC CAPITAL LETTER OPEN E | S | 07/13 | This position shall not be used |
| S | 04/14 | CYRILLIC CAPITAL LETTER YU | S | 07/14 | This position shall not be used |
| S | 04/15 | CYRILLIC CAPITAL LETTER YA | S | 07/15 | This position shall not be used |

### 8.6 The Greek primary set

Name:
Greek primary set
Registration:
No. 150
Number of characters:
94

|  |  |  |  | $\mathrm{b}_{7}$ | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\mathrm{b}_{6}$ | 0 | 0 | 1 | 1 | 0 | 0 | 1 |  |  |
|  |  |  |  | $\mathrm{b}_{5}$ | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |  |
|  | $\mathrm{b}_{3}$ |  |  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  |
| 0 | 0 | 0 | 0 | 00 |  |  |  | 0 | @ | $\Pi$ | (2) | $\pi$ |  |
| 0 | 0 | 0 | 1 | 01 |  |  | ! | 1 | A | P | $\alpha$ | $\rho$ |  |
| 0 | 0 | 1 | 0 | 02 |  |  | " | 2 | B | (1) | $\beta$ | $\varsigma$ |  |
| 0 | 0 | 1 | 1 | 03 |  |  | \# | 3 | $\Gamma$ | $\Sigma$ | $\gamma$ | $\sigma$ |  |
| 0 | 1 | 0 | 0 | 04 |  |  | 0 | 4 | $\Delta$ | T | $\delta$ | $\tau$ |  |
| 0 | 1 | 0 | 1 | 05 |  |  | \% | 5 | E | Y | $\varepsilon$ | $v$ |  |
| 0 | 1 | 1 | 0 | 06 |  |  | \& | 6 | Z | $\Phi$ | $\zeta$ | $\varphi$ |  |
| 0 | 1 | 1 | 1 | 07 |  |  | ' | 7 | H | X | $\eta$ | $\chi$ |  |
| 1 | 0 | 0 | 0 | 08 |  |  | ( | 8 | $\Theta$ | $\Psi$ | $\theta$ | $\Psi$ |  |
| 1 | 0 | 0 | 1 | 09 |  |  | ) | 9 | I | $\Omega$ | 1 | $\omega$ |  |
| 1 | 0 | 1 | 0 | 10 |  |  | * | : | K | (2) | к | (2) |  |
| 1 | 0 | 1 | 1 | 11 |  |  | + | ; | $\Lambda$ | [ | $\lambda$ | , |  |
| 1 | 1 | 0 | 0 | 12 |  |  | , | $<$ | M | 1 | $\mu$ |  |  |
| 1 | 1 | 0 | 1 | 13 |  |  | - | $=$ | N | ] | $v$ | \} |  |
| 1 | 1 | 1 | 0 | 14 |  |  |  | $>$ | $\Xi$ | $\wedge$ | $\xi$ | - |  |
| 1 | 1 | 1 | 1 | 15 |  |  | / | ? | O |  | 0 |  |  |

NOTES
1 Telematic terminals should not transmit this code. However, to ensure compatibility with some conversion equipment, when a telematic terminal receives code $05 / 02$, it shall interpret it as a GREEK CAPITAL LETTER SIGMA.
2 These code positions are reserved for further standardization.

| P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description | P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| P | 02/00 | THIS POSITION SHALL NOT BE USED | P | 05/00 | GREEK CAPITAL LETTER PI |
| P | 02/01 | EXCLAMATION MARK | P | 05/01 | GREEK CAPITAL LETTER RHO |
| P | 02/02 | QUOTATION MARK | P | 05/02 | THIS POSITION SHALL NOT BE USED |
| P | 02/03 | NUMBER SIGN | P | 05/03 | GREEK CAPITAL LETTER SIGMA |
| P | 02/04 | GENERAL CURRENCY SIGN | P | 05/04 | GREEK CAPITAL LETTER TAU |
| P | 02/05 | PERCENT SIGN | P | 05/05 | GREEK CAPITAL LETTER UPSILON |
| P | 02/06 | AMPERSAND | P | 05/06 | GREEK CAPITAL LETTER PHI |
| P | 02/07 | APOSTROPHE | P | 05/07 | GREEK CAPITAL LETTER KHI |
| P | 02/08 | LEFT PARENTHESIS | P | 05/08 | GREEK CAPITAL LETTER PSI |
| P | 02/09 | RIGHT PARENTHESIS | P | 05/09 | GREEK CAPITAL LETTER OMEGA |
| P | 02/10 | ASTERISK | P | 05/10 | THIS POSITION SHALL NOT BE USED |
| P | 02/11 | PLUS SIGN | P | 05/11 | LEFT SQUARE BRACKET |
| P | 02/12 | COMMA | P | 05/12 | REVERSE SOLIDUS |
| P | 02/13 | HYPHEN, MINUS SIGN | P | 05/13 | RIGHT SQUARE BRACKET |
| P | 02/14 | PERIOD | P | 05/14 | CIRCUMFLEX ACCENT |
| P | 02/15 | SOLIDUS | P | 05/15 | LOW LINE |
| P | 03/00 | DIGIT 0 | P | 06/00 | THIS POSITION SHALL NOT BE USED |
| P | 03/01 | DIGIT 1 | P | 06/01 | GREEK SMALL LETTER ALPHA |
| P | 03/02 | DIGIT 2 | P | 06/02 | GREEK SMALL LETTER BETA |
| P | 03/03 | DIGIT 3 | P | 06/03 | GREEK SMALL LETTER GAMMA |
| P | 03/04 | DIGIT 4 | P | 06/04 | GREEK SMALL LETTER DELTA |
| P | 03/05 | DIGIT 5 | P | 06/05 | GREEK SMALL LETTER EPSILON |
| P | 03/06 | DIGIT 6 | P | 06/06 | GREEK SMALL LETTER ZETA |
| P | 03/07 | DIGIT 7 | P | 06/07 | GREEK SMALL LETTER ETA |
| P | 03/08 | DIGIT 8 | P | 06/08 | GREEK SMALL LETTER THETA |
| P | 03/09 | DIGIT 9 | P | 06/09 | GREEK SMALL LETTER IOTA |
| P | 03/10 | COLON | P | 06/10 | GREEK SMALL LETTER KAPPA |
| P | 03/11 | SEMICOLON (Greek question mark) | P | 06/11 | GREEK SMALL LETTER LAMBDA |
| P | 03/12 | LESS-THAN SIGN | P | 06/12 | GREEK SMALL LETTER MU |
| P | 03/13 | EQUALS SIGN | P | 06/13 | GREEK SMALL LETTER NU |
| P | 03/14 | GREATER-THAN SIGN | P | 06/14 | GREEK SMALL LETTER XI |
| P | 03/15 | QUESTION MARK | P | 06/15 | GREEK SMALL LETTER OMICRON |
| P | 04/00 | COMMERCIAL AT | P | 07/00 | GREEK SMALL LETTER PI |
| P | 04/01 | GREEK CAPITAL LETTER ALPHA | P | 07/01 | GREEK SMALL LETTER RHO |
| P | 04/02 | GREEK CAPITAL LETTER BETA | P | 07/02 | GREEK SMALL LETTER FINAL SIGMA |
| P | 04/03 | GREEK CAPITAL LETTER GAMMA | P | 07/03 | GREEK SMALL LETTER SIGMA |
| P | 04/04 | GREEK CAPITAL LETTER DELTA | P | 07/04 | GREEK SMALL LETTER TAU |
| P | 04/05 | GREEK CAPITAL LETTER EPSILON | P | 07/05 | GREEK SMALL LETTER UPSILON |
| P | 04/06 | GREEK CAPITAL LETTER ZETA | P | 07/06 | GREEK SMALL LETTER PHI |
| P | 04/07 | GREEK CAPITAL LETTER ETA | P | 07/07 | GREEK SMALL LETTER KHI |
| P | 04/08 | GREEK CAPITAL LETTER THETA | P | 07/08 | GREEK SMALL LETTER PSI |
| P | 04/09 | GREEK CAPITAL LETTER IOTA | P | 07/09 | GREEK SMALL LETTER OMEGA |
| P | 04/10 | GREEK CAPITAL LETTER KAPPA | P | 07/10 | THIS POSITION SHALL NOT BE USED |
| P | 04/11 | GREEK CAPITAL LETTER LAMBDA | P | 07/11 | LEFT CURLY BRACKET |
| P | 04/12 | GREEK CAPITAL LETTER MU | P | 07/12 | VERTICAL LINE |
| P | 04/13 | GREEK CAPITAL LETTER NU | P | 07/13 | RIGHT CURLY BRACKET |
| P | 04/14 | GREEK CAPITAL LETTER XI | P | 07/14 | MACRON |
| P | 04/15 | GREEK CAPITAL LETTER OMICRON | P | 07/15 | THIS POSITION SHALL NOT BE USED |

Name:
Registration:
Number of characters:

|  |  |  |  | $\mathrm{b}_{7}$ <br> $\mathrm{~b}_{6}$ <br> $\mathrm{~b}_{s}$ | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 0 | 0 | 1 | 1 | 0 | 0 | 1 |  |
|  |  |  |  |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |  |
| $\mathrm{b}_{4}$ $\mathrm{~b}_{3}$ $\mathrm{~b}_{2}$ $\mathrm{~b}_{1}$ <br>     |  |  |  |  | 00 |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 0 | 0 | 0 |  |  |  |  |  | NBSP | $\bigcirc$ | $\therefore$ | $\hat{\mathrm{y}}$ | $\Omega$ | (1) |
| 0 | 0 | 0 | 1 | 01 |  |  |  | (1) | $\pm$ | (3) | 1 | (1) | (1) |
| 0 | 0 | 1 | 0 | 02 |  |  |  | $\notin$ | 2 | ' |  | (1) | (1) |
| 0 | 0 | 1 | 1 | 03 |  |  |  | $£$ | 3 | (3) | ( ${ }^{\text {c }}$ | (1) | (1) |
| 0 | 1 | 0 | 0 | 04 |  |  |  | (1) | X | (3) | TM | (1) | (1) |
| 0 | 1 | 0 | 1 | 05 |  |  |  | $¥$ | $\mu$ | (3) | $\delta$ | (2) | (1) |
| 0 | 1 | 1 | 0 | 06 |  |  |  | (1) | 9 | (3) | $\neg$ | (1) | (1) |
| 0 | 1 | 1 | 1 | 07 |  |  |  | § | - | (3) | $!$ | (1) | (1) |
| 1 | 0 | 0 | 0 | 08 |  |  |  | a | $\sim$ | . | (2) | (1) | (1) |
| 1 | 0 | 0 | 1 | 09 |  |  |  | 6 | , | (3) | (2) | (1) | (1) |
| 1 | 0 | 1 | 0 | 10 |  |  |  | '6 | $"$ | (3) | (2) | (1) | (1) |
| 1 | 0 | 1 | 1 | 11 |  |  |  | < | > | (3) | (2) | (1) | (1) |
| 1 | 1 | 0 | 0 | 12 |  |  |  | $\leftarrow$ | 1/4 | (3) | 1/8 | (1) | (1) |
| 1 | 1 | 0 | 1 | 13 |  |  |  | $\uparrow$ | 1/2 | (3) | 3/8 | (1) | (1) |
| 1 | 1 | 1 | 0 | 14 |  |  |  | $\rightarrow$ | 3/4 | (3) | 5/8 | (1) | (1) |
| 1 | 1 | 1 | 1 | 15 |  |  |  | $\downarrow$ | (1) | (3) | 7/8 | (1) | SHY |
|  | © |  |  | eserved |  |  | (8) | $]_{\text {Reserve }}$ |  | © | R |  |  |

NOTE - The Greek Administration intends to revert to the issue of the above mentioned Greek supplementary set by requesting its replacement by another one better suited to its requirements.

However, subject to reconsideration of this set and for reasons of compatibility, it declares that, for the time beeing, it will continue to apply the supplementary set appearing in Figure 2/T.61, on page 260 (Blue Book, 1988). See also 7.4.3.

| P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description | P/S | Bit comb. | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | 02/00 | NO-BREAK SPACE | S | 05/00 | HYPHEN, MINUS SIGN |
| S | 02/01 | THIS POSITION IS RESERVED | S | 05/01 | SUPERSCRIPT 1 |
| S | 02/02 | CENT SIGN | S | 05/02 | REGISTERED SIGN |
| S | 02/03 | POUND SIGN | S | 05/03 | COPYRIGHT SIGN |
| S | 02/04 | THIS POSITION IS RESERVED | S | 05/04 | TRADE MARK SIGN |
| S | 02/05 | YEN SIGN | S | 05/05 | A MUSICAL NOTE SIGN |
| S | 02/06 | THIS POSITION IS RESERVED | S | 05/06 | NEGATION SIGN |
| S | 02/07 | SECTION SYMBOL | S | 05/07 | EXCLAMATION MARK |
| S | 02/08 | GENERAL CURRENCY SIGN | S | 05/08 | THIS POSITION IS RESERVED |
| S | 02/09 | LEFT SINGLE QUOTATION MARK | S | 05/09 | THIS POSITION IS RESERVED |
| S | 02/10 | LEFT DOUBLE QUOTATION MARK | S | 05/10 | THIS POSITION IS RESERVED |
| S | 02/11 | LEFT DOUBLE ANGLE BRACKET | S | 05/11 | THIS POSITION IS RESERVED |
| S | 02/12 | LEFTWARD ARROW | S | 05/12 | FRACTION ONE EIGHTH |
| S | 02/13 | UPWARD ARROW | S | 05/13 | FRACTION THREE EIGHTH |
| S | 02/14 | RIGHTWARD ARROW | S | 05/14 | FRACTION FIVE EIGHTH |
| S | 02/15 | DOWNWARD ARROW | S | 05/15 | FRACTION SEVEN EIGHTH |
| S | 03/00 | DEGREE SIGN | S | 06/00 | OHM SIGN |
| S | 03/01 | PLUS MINUS SIGN | S | 06/01 | THIS POSITION IS RESERVED |
| S | 03/02 | SUPERSCRIPT 2 | S | 06/02 | THIS POSITION IS RESERVED |
| S | 03/03 | SUPERSCRIPT 3 | S | 06/03 | THIS POSITION IS RESERVED |
| S | 03/04 | MULTIPLY SIGN | S | 06/04 | THIS POSITION IS RESERVED |
| S | 03/05 | MICRO SIGN | S | 06/05 | THIS POSITION IS RESERVED |
| S | 03/06 | PARAGRAPH SIGN | S | 06/06 | THIS POSITION IS RESERVED |
| S | 03/07 | MIDDLE DOT | S | 06/07 | THIS POSITION IS RESERVED |
| S | 03/08 | DIVIDE SIGN | S | 06/08 | THIS POSITION IS RESERVED |
| S | 03/09 | RIGHT SINGLE QUOTATION MARK | S | 06/09 | THIS POSITION IS RESERVED |
| S | 03/10 | RIGHT DOUBLE QUOTATION MARK | S | 06/10 | THIS POSITION IS RESERVED |
| S | 03/11 | RIGHT DOUBLE ANGLE BRACKET | S | 06/11 | THIS POSITION IS RESERVED |
| S | 03/12 | FRACTION ONE QUARTER | S | 06/12 | THIS POSITION IS RESERVED |
| S | 03/13 | FRACTION ONE HALF | S | 06/13 | THIS POSITION IS RESERVED |
| S | 03/14 | FRACTION THREE QUARTER | S | 06/14 | THIS POSITION IS RESERVED |
| S | 03/15 | THIS POSITION IS RESERVED | S | 06/15 | THIS POSITION IS RESERVED |
| S | 04/00 | GREEK DIALYTIKA TONOS | S | 07/00 | THIS POSITION IS RESERVED |
| S | 04/01 | THIS POSITION IS RESERVED | S | 07/01 | THIS POSITION IS RESERVED |
| S | 04/02 | GREEK TONOS | S | 07/02 | THIS POSITION IS RESERVED |
| S | 04/03 | THIS POSITION IS RESERVED | S | 07/03 | THIS POSITION IS RESERVED |
| S | 04/04 | THIS POSITION IS RESERVED | S | 07/04 | THIS POSITION IS RESERVED |
| S | 04/05 | THIS POSITION IS RESERVED | S | 07/05 | THIS POSITION IS RESERVED |
| S | 04/06 | THIS POSITION IS RESERVED | S | 07/06 | THIS POSITION IS RESERVED |
| S | 04/07 | THIS POSITION IS RESERVED | S | 07/07 | THIS POSITION IS RESERVED |
| S | 04/08 | GREEK DIALYTIKA | S | 07/08 | THIS POSITION IS RESERVED |
| S | 04/09 | THIS POSITION IS RESERVED | S | 07/09 | THIS POSITION IS RESERVED |
| S | 04/10 | THIS POSITION IS RESERVED | S | 07/10 | THIS POSITION IS RESERVED |
| S | 04/11 | THIS POSITION IS RESERVED | S | 07/11 | THIS POSITION IS RESERVED |
| S | 04/12 | THIS POSITION IS RESERVED | S | 07/12 | THIS POSITION IS RESERVED |
| S | 04/13 | THIS POSITION IS RESERVED | S | 07/13 | THIS POSITION IS RESERVED |
| S | 04/14 | THIS POSITION IS RESERVED | S | 07/14 | THIS POSITION IS RESERVED |
| S | 04/15 | THIS POSITION IS RESERVED | S | 07/15 | SOFT HYPHEN |

### 8.7 The Hebrew supplementary set

Name:

Registration:

Number of characters:

Hebrew supplementary set

No. 164

96


| P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description | P/S | $\begin{gathered} \text { Bit } \\ \text { comb. } \end{gathered}$ | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | 02/00 | This position shall not be used | S | 05/00 | This position shall not be used |
| S | 02/01 | This position shall not be used | S | 05/01 | This position shall not be used |
| S | 02/02 | This position shall not be used | S | 05/02 | This position shall not be used |
| S | 02/03 | This position shall not be used | S | 05/03 | This position shall not be used |
| S | 02/04 | This position shall not be used | S | 05/04 | This position shall not be used |
| S | 02/05 | This position shall not be used | S | 05/05 | This position shall not be used |
| S | 02/06 | This position shall not be used | S | 05/06 | This position shall not be used |
| S | 02/07 | This position shall not be used | S | 05/07 | This position shall not be used |
| S | 02/08 | This position shall not be used | S | 05/08 | This position shall not be used |
| S | 02/09 | This position shall not be used | S | 05/09 | This position shall not be used |
| S | 02/10 | This position shall not be used | S | 05/10 | This position shall not be used |
| S | 02/11 | This position shall not be used | S | 05/11 | This position shall not be used |
| S | 02/12 | This position shall not be used | S | 05/12 | This position shall not be used |
| S | 02/13 | This position shall not be used | S | 05/13 | This position shall not be used |
| S | 02/14 | This position shall not be used | S | 05/14 | This position shall not be used |
| S | 02/15 | This position shall not be used | S | 05/15 | This position shall not be used |
| S | 03/00 | This position shall not be used | S | 06/00 | HEBREW LETTER ALEF |
| S | 03/01 | This position shall not be used | S | 06/01 | HEBREW LETTER BET |
| S | 03/02 | This position shall not be used | S | 06/02 | HEBREW LETTER GIMEL |
| S | 03/03 | This position shall not be used | S | 06/03 | HEBREW LETTER DALET |
| S | 03/04 | This position shall not be used | S | 06/04 | HEBREW LETTER HE |
| S | 03/05 | This position shall not be used | S | 06/05 | HEBREW LETTER VAV |
| S | 03/06 | This position shall not be used | S | 06/06 | HEBREW LETTER ZAYIN |
| S | 03/07 | This position shall not be used | S | 06/07 | HEBREW LETTER HET |
| S | 03/08 | This position shall not be used | S | 06/08 | HEBREW LETTER TET |
| S | 03/09 | This position shall not be used | S | 06/09 | HEBREW LETTER YOD |
| S | 03/10 | This position shall not be used | S | 06/10 | HEBREW LETTER FINAL KAF |
| S | 03/11 | This position shall not be used | S | 06/11 | HEBREW LETTER KAF |
| S | 03/12 | This position shall not be used | S | 06/12 | HEBREW LETTER LAMED |
| S | 03/13 | This position shall not be used | S | 06/13 | HEBREW LETTER FINAL MEM |
| S | 03/14 | This position shall not be used | S | 06/14 | HEBREW LETTER MEM |
| S | 03/15 | This position shall not be used | S | 06/15 | HEBREW LETTER FINAL NUN |
| S | 04/00 | This position shall not be used | S | 07/00 | HEBREW LETTER NUN |
| S | 04/01 | This position shall not be used | S | 07/01 | HEBREW LETTER SAMEKH |
| S | 04/02 | This position shall not be used | S | 07/02 | HEBREW LETTER AYIN |
| S | 04/03 | This position shall not be used | S | 07/03 | HEBREW LETTER FINAL PE |
| S | 04/04 | This position shall not be used | S | 07/04 | HEBREW LETTER PE |
| S | 04/05 | This position shall not be used | S | 07/05 | HEBREW LETTER FINAL TSADI |
| S | 04/06 | This position shall not be used | S | 07/06 | HEBREW LETTER TSADI |
| S | 04/07 | This position shall not be used | S | 07/07 | HEBREW LETTER QOF |
| S | 04/08 | This position shall not be used | S | 07/08 | HEBREW LETTER RESH |
| S | 04/09 | This position shall not be used | S | 07/09 | HEBREW LETTER SHIN |
| S | 04/10 | This position shall not be used | S | 07/10 | HEBREW LETTER TAV |
| S | 04/11 | This position shall not be used | S | 07/11 | This position shall not be used |
| S | 04/12 | This position shall not be used | S | 07/12 | This position shall not be used |
| S | 04/13 | This position shall not be used | S | 07/13 | This position shall not be used |
| S | 04/14 | This position shall not be used | S | 07/14 | This position shall not be used |
| S | 04/15 | This position shall not be used | S | 07/15 | This position shall not be used |

Name:
Japanese-kanji set

No. 168
Number of characters: 6879 (multi-byte)


| （2） |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Premier multiplet |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
|  |  |  |  |  |  |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  | 1 |  |  |  |  |  |  | 24 | 25 | 26 | 37 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 7 |
| b7 | b6 | b5 | b4 | b3 | b2 | b1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 1 | 食 | A | $\stackrel{\sim}{r}$ | 0 | － | － | － | 7 | ， | $\sim$ | $\\|$ |  | ．$\cdot$ |  |  |  |  |  | （ | $)$ | ［ | $]$ |  | $]$ |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 |  | 2 |  |  | E | $\ni$ | 5 | ？ | － | $\square$ | U | ก |  |  |  |  |  |  |  |  | $\wedge$ | $\checkmark$ | －7 | $\Rightarrow$ | $\Leftrightarrow$ | $\square$ |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 3 | 8 | 9 |  |  |  |  |  |  |  | A | B | C | D | E | F | G | H | I | J | K | L | $\mathbf{M}$ | N | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | L | す | 岛 | せ | ぜ | そ | F | た | だ | 5 | ぢ | $?$ | 3 | － | T | 区 | L | ど | な | $\stackrel{ }{-}$ | $8^{2}$ | な | O） | は |
| 0 | 1 | 0 | 0 | 1 | 0 | 1 | 5 | ジ | 又 | ス＊ | t | ＋゙ | 1） | ソ | $夕$ | $タ$ | 于 | 于 | $\because$ | 》 | $\because$ | テ | $\stackrel{\sim}{7}$ | F | F＊ | 广 | 二 | 又 | 市 | 1 | N |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 6 | Q |  |  |  |  |  |  |  |  | $\boldsymbol{\alpha}$ | $\beta$ | 7 | $\delta$ | $\varepsilon$ | $\zeta$ | 7 | $\theta$ | $L$ | $\kappa$ | $\lambda$ | $\mu$ | $v$ | $\xi$ | 0 |
| 0 | 1 | 0 | 0 | 1 | 1 | 1 | 7 | L， | 4 | UI | III | F | BI | b | 3 | O | Я |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 |  |  |  |  |  |  |  | － | －1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 0 | 0 | 1 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 0 | 1 | 1 | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 1 | 0 | 1 | 1 | 0 | 1 | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 1 | 1 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 16 | 宛 | 姐 | 虬 | 館 | 絢 | 続 | 鮎 | 或 | 要 | 給 | 安 | 庣 | 按 | 暗 | 案 |  | 嫫 | 杏 | 以 | 伊 | 位 | 依 | 偉 | 囲 |
| 0 | 1 | 1 | 0 | 0 | 0 | 1 | 17 | 姥 | 既 | 浦 | 風 | 閏 | 嗄 | 工 | 運 | 雲 | 荏 | 郎 | 啟 | 営 | 緊 | 影 | 映 | 我 | 栄 | 氷 | 泳 | 洝 | 瑛 | 盛 | 穎 |
| 0 | 1 | 1 | 0 | 0 | 1 | 0 | 18 | 恩 | 温 | 皧 | 音 | F | 化 | 仅 | 何 | 伽 | 価 | 住 | 加 | 可 | 嘉 | 定 | 嫁 | 家 | 㝜 | 科 | 良 | 果 | 架 | 歌 | 诃 |
| 0 | $t$ | 1 | 0 | 0 | 1 | 1 | 19 | 蓋 | 街 | 該 | 錇 | 铻 | 浬 | 凉 | 蛙 | 垣 | 析 | 蚄 | 鈎 | 部 | 战等 | 各 | 廊 | 拡 | 擋 | 格 | 㖟 | 款 | 䓵 | 確 | 皧 |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 | 20 | 憾 | 換 | 敢 | 柑 | 栢 | 棺， | 款 | 㐌保 | 汗 | 灉 | 洭 | 淮 | 環 | 甘 | 監 | 看 | 等 | 管 | 缞 | 喛 | 㐌 | 翰 | 肝 | 艦 |
| 0 | 1 | 1 | 0 | 1 | 0 | 1 | 21 | 妓 | 宜 | 䖗 | 技 | 擬 | 欺 | 檥 | 疑 | 社 | 義离 | 蛏 | 誼 | 議 | 移 | 荷 | 鞉 | 吉 | 吃 | 喫 | 桔 | 樋 | 詰 | 砧 | 杵 |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 22 | 狂 | 狭 | 矯 | 胸 | 茄 | 與 | 葡 | 卿 | 鏡 | 整 | 洨首 | 驚 | 仰 | 凝 | 坴 | 晬 | 業 | 局 | 曲 | 梄 | 三 | 桐 | 籸 | 偉 |
| 0 | 1 | 1 | 0 | 1 | 1 | 1 | 23 | 侤 | 傾 | 刑 | 兄 | 品 | 圭 | 㓐 | 型 | 契 | 形 | 㪀 | 恵 | 唇 | 堑 | 頢 | 揭 | 携 | 敬 | 景 | 柱 | 渓 | 畦 | 稽 | 㪳 |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 24 | 边 | 弦 | 隇 | 源 | 考 | 現 | 絞 | 觟 | 言 | 諺 | 限 | 平 | 個 | 古 | 呼 | 固 | 姑 | 㧓 | 己 |  | 冹 | 戸 | 故 | 枯 |
| 0 | 1 | 1 | 1 | 0 | 0 | 1 | 25 | 晃 | 更 | 抗 | 校 | 梗 | 構 | Y， | 洪 | 浩 | 港 | 溝 | 中 | 皇 | 硬 | 稿 | 弱 | 紅 | 紋 | 絞 | 網 | 耕 | 容 | 肯 | 脏 |
| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 26 | 左 | 美 | 㚗 | 沙 | 瑳 | 砂 | 詐 | 镍 | 鹪 | 坐 | 座 | 挫 | 債 | 催 | 再 | 最 | 哉 | 塞 | 妻 | 宰 | 新 | 才 | 播 | 栽 |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 | 27 | 㪂 | 现 | 産 | 算 | 管 | 空 | 頶 | 賛 | 酸 | 䍂 | 斬 | 暫 | 残 | 11 | 17 | 伺 | 使 | 林 | 司］ | 史 | 号 | 四 | $\pm$ | 始 |
| 0 | 1 | 1 | 1 | 1 | 0 | 0 | 28 |  | 執 | 失 | 嫃 | 室 | 蝺 | 湿 | 妳 | 疾 | 兵 | 実 | 战 | 推 | 偲 | 柴 | 芝 | 屡 | 恚 | 縞 | 舎 | 写 | 身 | 掊 | 赦 |
| 0 | 1 | 1 | 1 | 1 | 0 | 1 | 29 | 集 | 憩 | H | 住 | 怎 | ＋ | 従 | 戎 | 柔 | 汁 | 徏 | 獣 |  | 重 | 銃 | 叔 | 凨 | 宿 | 淑 | 祝 | 縮 | 㙢 | 旌 | 享 |
| 0 | 1 | 1 | 1 | 1 | 1 | 0 | 30 | 堂 | 捷 | 昇 | 昌 | 昭 | 晶 | 松 | 梢 | 樟 | 樵 | 沼 | 消 | 渉 | 湘 | 焼 | 焦 | 照 | 症 | 省 | 硝 | 礁 | 样 | 称 | 管 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 31 | 晋 | 森 | 棒 | 浸 | 深 | 申 | 痑 | 真 | 神 |  | 紳 | 号 | 芯 | 薪 | 親 | 診 | 身 | 章 | 進 | 針 | 震 | 人 | 1仁 | 刃 |




|  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Premier multiplet |  |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|  |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|  |  |  |  |  |  |  |  |  | 0 | 0 |  |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | 0 |  |  |  | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 |  | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  |
|  |  |  |  |  |  |  |  |  | 0 | 1 |  |  | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |  |
|  |  |  |  |  |  |  |  |  | 1 | 0 |  |  | 0 | 1 | 0 |  | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 | 1 | 0 |  |
| 第1バイト |  |  |  |  |  |  |  |  |  |  | 区 点 |  |  | $1$ | 2 |  |  |  |  |  |  |  | 9 |  |  | 1 |  | 1 |  |  |  | 18 |  |  |  |  |  |
| b7 | b6 | b5 | 5 | b4 | b3 | b2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\dagger$ | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |  |  |  | 32 | 澄 | 䦪 | 習 |  | 世 |  | 畋 | 是 | 凄 | 制 | 勢 | 姓 | 征 | 性 | 成 | 政 | 整 | 星 | 晴 | 樓 | 梄 | II | 清 | 栍 |
| 1 | 0 | 0 |  | 0 | 0 | 0 | 1 |  |  |  |  |  | 33 | 綨 | 湆 |  |  | 外 | 船 | 薦 | 詮 | 賎 | 践 | 選 | 遷銑 | 銭 | 銑 | 閣 | ，鮮 | 前 | 善 | 漸 | 然 | 全 | 禅 | 繀 | 膡 |
| 1 | 0 | 0 |  | 0 | 0 | 1 | 0 |  |  |  |  |  | 34 | 膕 | 再 | 相 | 㽬 | 造 | 只 | 側 | 則 | 即 | 息 | 提 | 束 | 測 | 足 | 速 | 俗 | 属 | 賊 | 族 | 続 | 卒 | 袖 | 其 | 揃 |
| 1 | 0 | 0 |  | 0 | 0 | 1 | 1 |  |  |  |  |  | 35 | d | 但 |  | 促 | 辰 | 寽 | 脱 | 拱 | 餢 | 辿 | 棚 | 父 | 理 | 緭 | 梅， | 倠 | 丹 | 単 | 嘆 | 坦 | 担 | 探 | 旦 | 都 |
| 1 | 0 | 0 |  | 0 | 1 | 0 | 0 |  |  | 36 | 兄 | 帳 |  |  | 韦 | 張 |  | 徵 | 藢 | 挑 | 暢 | 朝 | 潮 | 梪 | 朾 | 晀 | 聴 | 脹 | 腸 | 蝶 | 周 | 諜 | 超 | 跳 |  |  |  |
| 1 | 0 | 0 |  | 0 | 1 | 0 | 1 |  |  | 37 | 的 | 鄭 |  | ＋ | 鼒 | 泥 | 摘 | 擢 | 敵 | 滴 | 的 | 笛 | 適 | 鏑 | 湤 | 标 | 徹 | 撤 | 鸸 | 选 | 鉄 | 典 | 場 |  |  |  |  |
| 1 | 0 | 0 |  | 0 | 1 | 1 | 0 |  |  | 38 | 董 | 蕩 |  | 膡 | 討 | 謄 | 豆 | 踏 | 逃 | 透 | 鋀 | 許 | 頭 | 粝 | 闞 | 働 | 動 | 可； | 堂 | 導 | 憧 | 撞 | 同 | － |  |  |  |
| 1 | 0 | 0 |  | 0 | 1 | 1 | 1 |  |  | 39 | 如 | 尿 | 表 | 菲 | 任 | 娃 | 見 | 認 | 濡 | 禰 | 你 | 苧 | 蔡 | 猫： | 熱 | 年 | 恚 | 捻 | 撚 | 㜣 | 粘 |  | 西 | 百 |  |  |  |
| 1 | 0 | 0 |  | 1 | 0 | 0 | 0 |  |  | 40 | 函 | 箱 |  |  | 箸 | 㹈 | 筈 |  | 幡 | 肌 | 畑 | 畠 | 八 | 鋉 | 剆 | 発 | 唒 | 髮 | 伐 | 藅 | 抜 | 䈅 | 閭 | 風 |  |  |  |
| 1 | 0 | 0 |  | 1 | 0 | 0 | 1 |  |  | 41 | 鼻 | 边 | 稲 | 程 | 元 | 起 | 运 | 彦 | 膝 | 菱 | 肘 | 弼 | 必 | 里 | 筆 | 逼 | 会 | 姫 | 媛 | 科 | 白 | 淁 | 俵 | 傀 |  |  |  |
| 1 | 0 |  | 0 | 1 | 0 | 1 | 0 |  |  | 42 | 福 |  | 的 | 的而 | 覆 | 娍 | 弗 | 払 | 沸 | 仏 | 物 | 解 | 分 | 吻 | 噴 | 墳 | 憤 | 扮 | 焚 | 覅 | 粉 | 蕒 | 糿 | 分 |  |  |  |
| 1 | 0 |  |  | 1 | 0 | 1 | 1 |  |  | 43 | 法 | 泡 | 告 | 咅 | 䣱 | 絡 | 胞 | 芳 | 萌 | 萋 | 蜂 | 衰 | 訪 | 豊 | 邦 | 鋒 | 飽 | 鳳 |  | K | 亡 | 榜 | 家剖 | 场 |  |  |  |
| 1 | 0 |  | 0 | 1 | 1 | 0 | 0 |  |  | 44 | 漫 | 責 | 味 | 味 | 末 | 魅 | 已 | 箕 | 岬 | 密 | 離 | 湊 | 誓 | 稔 | 脈 | 妙 | 粍 | E | 眠 | 務 | 夢 | 無 | 圱 | 促 |  |  |  |
| 1 | 0 |  | 0 | 1 | 1 | 0 | 1 |  |  | 45 | 諭 | 輸 | 唯 | 唯 | 佑 | 優 | 勇 | 友 | 有 | 幽 | 悠 | 䁬 | 揖 | 有 | 柚 | 涌 | 涌 | 唒 | 苟 | 由 | 右 | 裕 | 誘 | 秀 |  |  |  |
| 1 | 0 |  | 0 | 1 | 1 | 1 | 0 |  |  | 46 | 利 | 离 | 走 | 裡 | 里 | 離 | 陸 | 律 | 率 | 立 | 葎 | 掠 | 略 | 㓣 | 流 | 溜 | 琉 | 留 | 硫 | 粒 | 降 | 妾 | 部 | ， |  |  |  |
| 1 | 0 |  | 0 | 1 | 1 | 1 | 1 |  |  | 47 | 導 | 連 | 車鉎 | 鋉 | 号 | 魯 | 鱛 | 炣 | 賂 | 路 | 雾 | 労 | 婁 | 廊 | 弄， | 朗 | 楼 | 楖 | 校 | 漏 | 暒 | 狠 | 䈉 | 诺 |  |  |  |
| 1 | － |  |  | 0 | 0 | 0 | 0 |  |  | 48 | － | 宕 | 今 | 1 | 个 | 俱 |  | \＃ | J | 爻 | 杜 |  | 钆 | 1 | 豫 | 事 | 舒 | 式 | 于 | 亞 | 亟 |  | 几 | 几 |  |  |  |
| 1 | 0 |  | 1 | 0 | 0 | 0 |  |  |  | 49 | 僉 | 供 | 劳隠 | 保 | 㒏 | 㥉 | 塥 | 僥 | 㭠 | 僣 | 僮 |  | 偪 | 儉， | 倠 | 费 | 塩 | 㭞 | 信 | 䑅 | 儡 | 葔 | 雄侣 | 翬 |  |  |  |
| 1 | 0 |  |  | 0 | 0 | 1 | 0 |  |  | 50 | 㖪 |  | 力 ${ }^{\text {a }}$ |  | 勀 | 膓 | 勁 | 勍 | 奛 | 勞 | 债 | 勦 | 伤㘯 | 覑 | 勳 | 勵 | 荔 | ${ }^{1}$ 万 | 多 | 匈 | 甸 | 甫 | 脗 | 包 |  |  |  |
| 1 | 0 |  | 1 | 0 | 0 |  |  |  |  | 51 | 只 |  |  |  | 咾 | 高 | 任 | 哥 | －哦 | 唏 | 㕶 | 哽 | 哮 | 哭 | 哺 | 咥 | ， | 啀 | 倁 | 啌 | 售 | 叕 | 叹啅 | 卓吹 |  |  |  |
| 1 | 0 |  |  | 0 | 1 | 0 | 0 |  |  | 52 | 畋 | 或 | 國 | 宣 | 遠 | 團 | 圖 | 聕 | 園 | 圦 | t下 | 如 | 场 | 圻 | 址 | 坏 | 坩 | 菲 | 垈 | 坡 | 讨 | 垉 | 垉 | 域 |  |  |  |
| 1 | 0 |  | 1. | 0 | 1 | 0 |  |  |  | 53 | 奸 |  |  |  |  | 侅 | 边 | 姐 | 姆 | 姨 | 美 | 妍 | 妵 | 佻 | 娥 | 呁 | 娑 | 娜 | 璌 | 娚 | 如 | 娃 |  | 家 |  |  |  |
| 1 | 0 |  | 1 | 0 | 1 | 1 |  |  |  | 54 | 㮦 |  |  |  | 嵓 | 山 | 屹 | 万 | 吃 | 员 | 荗 | 岔 | 安 | 䌷 | $\mathrm{d}$ | ， | 雨 | 嵦 | 帅 | 帖 | 荅 | 峙 | 宔茇 | 发 |  |  |  |
| 1 | 0 |  | 1 | $\bigcirc$ | 1 | 1 |  |  |  | 55 |  | 晋 | ｜ |  | 廊 | 厔 | 㢃 | 無 | 摩 | 真 | 不鼻 | 鹰 | 覽 | 澺 | 边 | 甶 | 开 | 奔 | 持 | 需 | 偁 | － | －斌 | 式 |  |  |  |
| 1 | 0 |  | 1 | 1 | 0 | 0 |  |  |  | 56 | 俏 | 悛 | 供 | 侼 | 㭸 | 悒 | 梸 |  | 荜 | 悸 | 惠 | 倦 | 悴 | 缷 | 悽 | 惆 | 悵 | 性 | 恫 | 愣 | 蓗 | 惶 | 意 | 坴 |  |  |  |
| 1 | 0 |  | 1 | 1 | 0 | 0 |  |  |  | 57 | 受 | 㖪 | 时 | 隹 | 䇅 | 䇝 | 戯 | 隹 | 扁 |  | 扞 |  | 扛 | 提 | 㧅 | 扰 | 抂 | 抰 | 找 | 抒 | 抓 | ＋ | ＋拔 | 犮 |  |  |  |
| 1 | 0 |  | 1 | 1 | 0 | 1 |  |  |  | 58 | 攄 | 栓 | 蛗 | 擅 | 擇 | 撻 | 壁 | 擂 | 擱 | 擧 | 藇 |  | 擡 | 括 | 擣 | 攅 | 罆 | 㨵 | 擴 | 㜔 | 攏 | 考 | 採楽 | 楽 |  |  |  |
| 1 | 0 |  | 1 | 1 | 0 |  |  |  |  | 59 | 晧 | 际 | 者 | 桵 | 营 |  | 昿 | 䂀 | 䤰 | 日 | 为 | 曷 | 朏 | 腿 | 考 | 儫 | 脕 | 兩 | 戒 | 朿 | 柔 | 杁 | 朸 | 力 |  |  |  |
| 1 | 0 |  | 1 | 1 | 1 | 0 |  |  |  | 60 | 棔 | 棫 | 樓 | 标 | 灤 |  | 椄 | 责 | 棣 |  | 棹 |  | 棯 | 森 | 樓 | 椚 | 䟵 | ；椡 | 棆 | 柂 | 㭠 | 楜 | 做楸 | 般 |  |  |  |
| 1 | 0 |  | 1 | 1 | 1 |  |  |  |  | 61 | 奨 | 集 | 硅樓 | 檻 | 殹 | 櫂 | 構 | 演 | 檬 | 檥 |  | 檪 | 暞 | 橍 | 婑 | 櫻 | 梖 | 薬 | 檑 | 樂 | 梲 | 誰 | 權 | 部斻 |  |  |  |
| 1 | 0 |  | 1 | 1 | 1 |  |  |  |  | 62 | 田 | 促 | 位 | 沢 | 㳔 | 泪 | 洟 | 衍 | 䘖 | 淮 | 洽 | 洸 | 洙 | 洵 | 沮 | 洒 | 洌 | 浣 | 识 | 汯 | 泼 | 浹 | 浙 | 浙 |  |  |  |
| 1 | 0 |  | 1 | 1 | 1 |  |  |  |  | 63 |  |  |  |  | 吕 |  | 㴖 | 渥 | 滩 |  |  | 潛 |  |  |  |  |  |  | － | 潦 | 澳 |  | 車＇澡 | 澡澤 |  |  |  |


|  |  |  |  |  |  |  |  |  | b7 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | 岩 | 第 | b6 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  | 2 | b5 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | － | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  | バ | b4 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  | 1 | b3 | 0 | 0 |  | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  | － | b2 | 0 | 0 |  | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| Premier multiplet |  |  |  |  |  |  |  |  | b1 | 0 | 1 |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  |  |  |  |  |  |  |  |  |  | 25 |  | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b7 | 56 | b5 | 5 | 04 | b3 | b2 | b1 |  |  |  | 25 |  | 6 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 1 | 0 | 0 |  | 0 | 0 | 0 | 0 | 32 |  | 生 | 熅 | 精 | 踊 | 聖 | 声 | 製 | 西 | 誠 | 誓詩 | 請 | 逝 | 酲 | 青 | 静 | 㐋 | 税 | 䐮 | 悪 | 席 | 愔 | ，㞝 | F | 晋 | 析 |
| 1 | 0 | 0 |  | 0 | 0 | 0 | 1 | 33 |  | 粷 | 㽬 |  | 星 | 且 | 揞 | 曾 | 曾 | 楚 | 狙 | 酼 | 踈 | 硠 | 祖 | 租 | 湖 | 素 | 縕 | 薢 | 訴 | 阻 | 部 | 鼠 | 僧 | 創 |
| 1 | 0 | 0 |  | 0 | 0 | 1 | 0 | 34 |  | 存 | 㧫 |  | 尊 | 損 | 村 | 抙 | 他 | 多 | 太 | 汰 | 詑 | 棰 | 隕 | 妾 | 性 | 于丁 | 校 | 舵 | 恠 | 陀 | 駄 | 駇 | 体 | 堆 |
| 1 | 0 | 0 |  | 0 | 0 | 1 | 1 | 35 |  | 淡 | 䢐 |  | 炭 | 短 | 端 | 算 | 踶 | 耽 | 胆 | 虽 | 誕 | 鍛 | 团 | 壊 | 弾 | 断 | 暖 | 楮 | 段 | 男 | 談 | 值 | 知 | 地 |
| 1 | 0 | 0 |  | 0 | 1 | 0 | 0 | 36 |  | 澵 | 長 |  | 頂 | 鳥 | 赖 | 渉 | 直 | 朕 | 氿 | 珍 | 任 | 鎮 | 陳 | 津， | 䜿 | 椎 | 捾 | 追 | 銫 | 施 | 通 | 场 | 㮛 | 掴 |
| 1 | 0 | 0 |  | 0 | 1 | 0 | 1 | 37 |  | 展 | 店 |  | 添 | 虢 | 甜 | 貼 | 転 | 顛 | 点 | 伝 | 殿 | 涺 | 田 | 電 | 鬼 | 吐 | 者 | 㙞 | 妬 | 屠 | 徒 | ＋ | 杜 | 渡 |
| 1 | 0 | 0 |  | 0 | 1 | 1 | 0 | 38 |  | 童 | 同 |  | 芴 | 道 | 銅 | 㚜 | 㖘 | 匿 | 得 | 徳 | 涜 | 特 | 督 | 禿 | 篤 | 毒 | 独 | 珫 | 椖 | 橡 | $\sqrt{4}$ | 突 | 椴 | 届 |
| 1 | 0 | 0 |  | 0 | 1 | 1 | 1 | 39 |  | 埜 | 霊 |  | 勉 | 渃 | 納 | 能 | 膇 |  | ，農 | 限見 | 虽 | 巴 | 把 | 播 |  | 杷 | 波 | 派 | 琶 | 破 | 婆 | 罵 | 芭 | 场 |
| 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 40 |  | 棓 | 塙 |  | 蛤 | 隼 | 伴 | 判 | 半 | 区 | 叛 | 帆 | 版 | 斑 | 板 | 氾 | 汎 | 版 | 犯 | 班 | 畔 | 繁 | 般 | 蒋 | 販 | 範 |
| 1 | 0 | 0 |  | 1 | 0 | 0 | 1 | 41 |  | 標 | 水 |  | 票 | 影 | 票 | 表 | 評 | 豹 | 㔻 | 描 | 病， | 秒 | 苗 | 錨 | 鋲 | 渿 | 蛭 | 湦 | 品 | 涁 | 斌 | 浜 | 穎 | 鰂貧 |
| 1 | 0 | 0 |  | 1 | o | 1 | 0 | 42 |  | 文 | 聞 |  | 灭 | 併 | 兵 | 塀 | 幣 | 平 | 弊 | 柄 | 並 | 儆 | 閉 | 阹 | 米 | 頁 | 僻 | 䭞 | 癖 | 䂞 | 別 | 瞥 | 粵 | 等 |
| 1 | 0 | 0 |  | 1 | 0 | 1 | 1 | 43 |  | 妨 | 帽 |  | 忘 | 忙 | 房 | 暴 | 望 | 某 | 棒 | 冒 | 紡 | 肪 | 膨 | 謀 | 琓 | 頨 | 鈷 | 防 | 㕱 | 煩 | 北 | 僕 | 下 | 易 |
| 1 | 0 | 0 |  | 1 | 1 | 0 | 0 | 44 |  | 隶 | 進 |  | 京， | 婻 | 娘 | 穴 | 名 | 命 | 明 | 盟 | 迷 | 銘 | 鳴 | 姪 | 轧 | 堿 | 免 | 棉 | 綿 | 緬 | 面 | 麺 | 揁 | 模 |
| 1 | 0 | 0 |  | 1 | 1 | 0 | 1 | 45 |  | 邑 | 唾 |  | 雄 | 融 | 多 | 予 | 余 | 与 | 誉 | 與 | 預 | 俈 | 幼 | 妖 | 容 | 庸 | 揚 | 摇 | 摔 | 嚁 | 楊 | 様 | 洋 | 溶 |
| 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 46 |  | 慮 | 施 |  | 㔻 | 了 | 亮 | 僚 | 両， | 凌 | 寮 | 料 | 梁 | 涼 | 晟 | 療 | 瞭 | 稜 | 糧 | 良 | 諒 | 遧 | － | 陵 | 領 | 力 |
| 1 | 0 | 0 |  | 1 | 1 | 1 | 1 | 47 |  | 等 | 蛹 |  | 郎 | 六 | 䃙 | 椂 | 助 | 録 | 論 | 㮃 | 和 | 話 | 歪 | 賄 | 肋 | 惑 | 枠 | 域 | 瓦 | F | 鰟 | 詫 | 蔈 |  |
| 1 | 0 | 1 |  | 0 | 0 | 0 | 0 | 48 |  | 毫 | 宜 |  |  | 仍 | 区 | 仆 | 加 |  | 灱 | 69 | 7f | 价 | 伉 | 佚 | 估 | 佛 |  | ；佗 | 佇 | 倍 | 侈 | 侏 | 任 | 挑 |
| 1 | 0 | 1 |  | 0 | 0 | 0 | 1 | 49 |  | 德 | J |  |  | 兒 | 兄 | 悤 | 勀克 | 竸 | 兩 | 冾 | 标 | 眘 |  | 回 | 册 | 再 | 間 | 青 | 㶳 | 冕 | 万 | 寃 | 趇 | 家 |
| 1 | 0 | 1 |  | 0 | 0 | 1 | 0 | 50 |  | 匕 |  |  | 早 | 雇 | 園 | 㟲 | ᄃ | 區 | 㙑 | 井 | \＃ | 卉 | 正 | 难 | 方 | П | 辰 | 外 | 䜪 | 参 |  | 旃 | 開 | 家 |
| 1 | 0 | 1 |  | 0 | 0 | 1 | 1 | 51 |  | 啗 | A |  | 㞍 | 啝 | 咏 | 愘 | 咯 | 喊 | 曙 | 啚 | 啾 | 喘 | 哬 | 單 | 啫 | 嘲 | 䧾 | 䏀 | 獍 | 唯 | 縝 | 哮 | 嗄 | 硓 |
| 1 | 0 | 1 |  | 0 | 1 | 0 | 0 | 52 |  | 㘯 | 垤 |  | 并 | 坦 | 埃 | 埛 | 埔 | 埒 | 埒 | 豈 | 咜 | 埣 | 堨 | 理 | 堝 | 塲 | 堡 | 场 | 恽 | 溽 | 毀 | 侍 | 罜 | 㟻 |
| 1 | 0 | 1 |  | 0 | 1 | 0 | 1 | 53 |  | 褧 | 婢 |  | 婪 | 媚 | 媪 | 婧 | 仿勿 | 嫂 | 㮱 | 鳦 | 圖 | 嫦 | 嫩 | 嬡 | 姐 | 媢 | 嬌 | 嬋 | 壁 | 伤告 | 婦 | 㜥 | 媓 |  |
| 1 | 0 | 1 |  | 0 | 1 | 1 | 0 | 54 |  | 峺 | 崔 |  | 嶌 | 岎 | 華 | 限圭 | 罔 |  | 崟 | 崛 | 崖 | 崔 | 崢 | 崚 | 禽 | 㒢 | 嵌 | 品 | 嵎 | 㯰 | 蒐 | 荠 | 酸 | 暚 |
| 1 | 0 | 1 |  | 0 | 1 | 1 | 1 | 55 |  | 㛎 | 强 |  |  | 彁 | 彈 | 5雨 | 彎 |  | 或 | 家 | 閭 | 愛 | 3 | 彭 | 亿 | 行 | 往 | 徂 | 佛 | 眛 | 很 | 促 | 徇 | 從 |
| 1 | 0 | 1 |  | 1 | 0 | 0 | 0 | 56 |  | 椯 | 愰 |  | 宣 | 椥 | 惻 | 覞 | 㰹 | 愎 | 憵 | 婅 | 愨 | 傀 | 慊 | 愿 | 愼 | 㟷 |  | 傅 | 涌 | 傈 | 壕 | 慷 | 惨 | 整 |
| 1 | 0 | 1 |  | 1 | 0 | 0 | 1 | 57 |  | 抔 | 教 |  | H | 押 | 拏 | 拿 | 拆 | 譥 | 拈 | 拜 | 伟 | 拊 | 拂 | 拇 | 䞣 | 拉 |  | 拮 | 擐 | 栩 | 挂 | 䍂 |  | 技 |
| 1 | 0 | 1 |  | 1 | 0 | 1 | 0 | 58 |  | 䍔 | 替 |  | 葲 | 㛈 | 筧 | 支 | 文 | 攻 | 收 | 倁 | 畋 | 效 | 教 | 敕 | 敍 | 敘 | 敞 | 㪙 | 敲 | 呚 | 敛 | 㸱 | 笠 | 斛 |
| 1 | 0 | 1 |  | 1 | 0 | 1 | 1 | 59 |  | 扞 | 杜 |  | 1 | 材 | 杣 | 标 | 柾 | 杰 | 枩 | 杼 | 杪 | 枌 | 伟 | 柿 | 枅 | 枅 | 和 | 柯 | 柺 | 柬 | 积 | 枢 | 枸 | 柤 |
| 1 | 0 | 1 |  | 1 | 1 | 0 | 0 | 60 |  | 椥 | 楾 |  | 者 | 愖 | 楴 | 标 | 枒 | 柖 | 榆 | 濖 | 楝 | 榁 | 楪 | 桖 | 榮 | 槐 | 梪 | 槁 | 䫅 | 搰 | 嵄 | 县 | 嫘 | 樢 |
| 1 | 0 | 1 |  | 1 | 1 | 0 | 1 | 61 |  | 称 | 洫 |  | 歌 | 歓 | 歇 | 欵 | 䟓 | 歐 | 的 | 虞 | 敛 |  | 歡 | 獻 | 方 | 攻 | 㰢 | 殄 | 泱 | 陾 | 殘 | 陪 | 䫂 | 薚 |
| 1 | 0 | 1 |  | 1 | 1 | 1 | 0 | 62 |  | 涕 | 碝 |  | 涅 | 漠 | 洮 | 测 | 滩 | 淇 | 洤 | 涸 | 渚 | 淬 | 㳔 | 淌 | 淨 | 凄 | 淅 | 淺 | 湍 | 淤 | 淕 | 㷍 | 淮 | 滑 |
| 1 | 0 | 1 |  | 1 | 1 | 1 | 1 | 63 |  | 館 | 漬 |  | 震 |  | 漍 | 㕡 | 浦 | 溫！ | 演 |  | 逐 | 䁩 | 翻 | 滩 | 瀑 | 瀳 | 鍌 | 濾 | 澋 | 瀚 | 漑 | 稼 |  | 澵 |


|  |  |  |  |  |  |  | b7 | 1 | 1 | 1 | 1 |  |  | 1 |  | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 |  | 1 | 1 | 1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | 第 b6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |
|  |  |  |  |  |  |  | 2 b5 | 1 | 1 | 1 |  | 1 |  | 1 |  | 1 | 1 | 1 |  | 1 |  | 1 |  | 0 | － | 0 | 0 | 0 |  | 0 |  |
|  |  |  |  |  |  |  | バ b4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  | $1{ }^{1}$ b3 | 0 | 0 | 0 | 0 | 1 |  | 1 |  | 0 | 0 | 0 | 0 | 1 |  | 1 |  | 0 |  | 0 | 0 |  |  |  |  |
|  |  |  |  |  |  |  | b2 | 0 | 0 | 1 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  |  |  | 0 |  |  |  |
|  |  |  |  |  |  |  | b1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  |  |  |  |  |  | 区 | 48 | 49 | 50 | $51$ |  | 53 |  |  |  | 575 | 58 | 59 | 60 |  |  |  | 646 |  | 66 |  |  |  |  |  |
| b7 | b6 | 5 | b4 | b3 | b2 | b1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 石 | 積 | 耤 | 績 | 令 | 貝 | 赤 | 跡 | 䁲 | 碩 | 切 |  | 校 | 摂 | 1 |  | 窃 | 位 | 說 | ， |  |  | 蝉 | 仙 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |  | 瞇 | 倉 | 啧 | 隹 | 奏 | 兆 | 本 | 㞒 |  | 惣 | 想 | 接 | 浐 | 挿 | 搔 | 操 | 早 | 䨘 | 果 | 槍 | 槽漊 | 潧 | 燥 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 34 | 対 | 䀠 | 岱 | 而 | 待 | 运 | d | ， | 星 | 奈 | 滞 | 胎 | 腿 |  | 袋 | 佰 | 退 | 速 | 隊 | 黛 |  | 代 | 吕 | 大 |
| 1 | 0 | 0 | 0 | 0 | 1 | 1 |  | 弛 | 取 | 智 | 他 | 次 | 稚 | 直 | 致 | 蝣 | 遅駺 | 馳 | 築 | 音 | 竹 | 筑 | 蓄 | 逐 | 秩 | 窒 | 茶 | 娣 | 着 | 中 | 仲 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 36 | 槻 | 佃 | 犢 | 柘 | 过 | 鳥 | 䅋 | 鍔 | 楮 | 左 | 坪 | 重 | 嬬 | 紬 | 爪 | 吊 | 埕 | 号 | 亭 | ｜低 | 停 | 偵 | 剃 | 貞 |
| 1 | 0 | 0 | 0 | 1 | 0 | 1 | 37 |  | 菟 | 场 | 途 | 者 | 鍍 | 砥 | 砳 | 努 | 度 | 土 | 奴 | 怒 | 倒 | 党 | 冬 | 凁 | 刀 | 唐 | 塔 | 姑 | 套 | 宕 | 島 |
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 38 | 鳥 | 告， | 寅 | 酉 | 瀞 | 噸 | 出 | 娮 | 敦 | 洏 | 膦 | 遁 | 頓 | 者 | 量 | 鈍 |  | 那 | 内 |  | 践 | 葲 |  | 難 |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 |  | 俳 | 発 | 拝 | 排 | 敟 | 林 | 雩 | 牌 | 背 | 肺 | 釷 | 配 | 倍 | 培 | 媒 | 梅 | 楳 | 煤 | 貝 | 買 | 売 | 賠 | 㜔 | 這 |
| 1 | 0 | 0 | 1 | 0 | 0 | 0 | \％ |  | 熕 | 頒 | 飯 | 挽 | 晩 | 番 | 䟅 | 媻 | 仡 | 蛮 | 匪 | 萆 | 䂞 | 妃 | 㢈 | 良 | 悲 | 屝 | 批 | 披 | 婓 | 比 | E |
| 1 | 0 | 0 | 1 | 0 | 0 | 1 | 41 | 賞 | 頻 | 敏 | 形 | 不 | 付 | 埠 | 夫 | 婦 | 富 | 畐 | 布 | 府 | 佈 |  | － | 號 |  | 浮 | 父 | 等 | 垵 | 虜 | 芙 |
| 1 | 0 | 0 | 1 | 0 | 1 | 0 | 42 | 偏 | 変 | 片 | 篇 | 編 | 1 | 返 | 掘 | 便 | 魅 | 娩 | 开 | 鞱 | 保 | 舖 | 鍺 | 进 | ＋ | 歩 | 甫 | 補 | 輔 | 䅹 | 劳 |
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 43 | 撲 | 朴 | 牧 | 睦 | 楾 | 鋁 | 勃 | 没 | 薚 | 堀 | 幌 | 奔 | 本 | 翻 | 凡 | 盆 | 摩 | 磨 | 魔 | 麻 | 理 | 妃 | 积 | 枚 |
| 1 | 0 | 0 | 1 | 1 | 0 | 0 |  |  | 3 | 孟 | 毛 | 猛 | 盲 | 为 | 耦 | 蒙 | 儲 | 木 |  | 目 | 禾 | 㕫 | 陹 | 元 | 及 | 粗 | 鿓 | 凧 | 國 | 紋 |  |
| 1 | 0 | 0 | 1 | 1 | 0 | 1 | 45 | 熔 | 用 | 窯 | 羊 | 数 | 葉 | 蓉 | 要 | 謡 | 踊 | 遥 | 陽 | 徰 | 笖 | 机 | 欲 | 无 | － | 翌 | 翼 | 证 | 羅 | 蛽 | 裸 |
| 1 | 0 | 0 | 1 | 1 | 1 | 0 | 46 |  | 倫 | 厘 | 林 | 澵 | 燐 | 䅛 | 臨 | 軨 | 钋 | 䚬 | 咙 | 珤 | 罢 | 源 | 累 | 類 | 令 | 伶 | 例 | 8 | 励 | 碞 |  |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 47 | 椀 | 湾 | 碗 | 椸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 48 |  | 1 | 侑 | 佯 | 來 | 筒 | 儘 | 俔 | 侯 | 組 | 俘 | 俛 |  | 俚 | 俐 | 俤 | 俥 | 倚 | 伍 | 倔 | 兒 | 榣 | 倅 | 卆 |
| 1 | 0 | 1 | 0 | 0 | 0 | 1 | 49 | 炰 | 等 | 7 | 决 | 仾 | 冲 | 冰 | 况 | 冽 | 估 | 凉 | 棕 | 几 | 處 | － | 凭 | 凰 | －1 | 呵 | 又 | FI | 刘 | 刎 | 却 |
| 1 | 0 | 1 | 0 | 0 | 1 | 0 | 50 | 源 | 斯 | 厰 | 4 | 寥 | 簒 | 雙 | 胃 | 曼 | 爫 | 昭 | 呵 | － | 叺 | 叶 | 吽 | 呀 | 听 | 吹 | 吼 | 晚 | 㖞 | 吹 | 客 |
| 1 | 0 | 1 | 0 | 0 | 1 | 1 |  |  | 䱋 | 嘔 | 渋 | 嘖 | 嗾 | 唓 | 咴 | 嗹 | 噎 | 器 | 營 | 嘫 | 嘶 | 嘲 | 嘸 | 噫 | 嘫 | 㑮 | 噬 | 噯 | 唠 | 咛 | 暷 |
| 1 | 0 | 1 | 0 | 1 | 0 | 0 | 52 |  | 墹 | 墟 | 㙉 | 垍 | 懐 | 墒 | 書 | 宿 | 檪 |  | 敖 | 鋮 | 墫 | 要 | 萄 | 謩 | 賋 | 熋 | 壯 |  | 豆 | 㘿 |  |
| 1 | 0 | 1 | 0 | 1 | 0 | 1 |  |  |  | 㜀 | f | 孕 | 寀 | 孝 | 㚾 | 孩 | 敦 | 竓 | 淮 | 學 | 年 | 穤 |  | 它 | 宦 | 咎 | 蔥 | 㝚 | 寉 | 定 | 䓉 |
| 1 | 0 | 1 | 0 | 1 | 1 | 0 | 54 | 断 | 幛 | 嶢 | 瞪 | 嶬 | 嶮 | 獄 | 篂 | 疑 | 㠘 | 㡞 | 魏 | 䫏 | 絢 |  | 《 | 坐 | 已 | 复 | 而 | 帚 | 狦 | 帑 |  |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 |  | 逢 | 作 | 徚 | 彺 | 徭 | 徼 | 忖 | 忻 | 怀 | 进 | 快 | 忝 | 直 | 忿 | 佁 | ＋ | 恃 | 佝 | 怩 | 怎 | 敀 | 愔 | 怕 |  |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 56 | 晰 | 詵 | 䅛 | 愓 | 慥 | 博 | 働 | 辱 | 慓 | 情 | 憙 | 焚 | 㖵 | 憬 | 惟 | 1 | 備 | 溤 | 潣 | 㒇 | 漓 | 愌 | 應 |  |
| 1 | o | 1 | 1 | 0 | 0 | 1 | 57 | 捐 | 挑 | 安 | 搜 | 捏 | 棭 | 掎 | 掀 | 诚 | 棰 | 掣 | 掏 | 掉 | 掟 | 掵 | 1 | 冾 | 揂 | 呫 | 揀 | 或 | 揣 | 析 | 插 |
| 1 | 0 | 1 | 1 | 0 | 1 | 0 | 58 | 断 | 斫 | 断断 | 施 | 施 | 旁 | 旄 | 㫋 | 施 | 箅 | 旛 | 无 | 无 | 字 | 晰 | 旲 | 旲 | 景 | 杳 | 昵 | 和 | 星 | 易 |  |
| 1 | 0 | 1 | 1 | O | 1 | 1 | 59 | 柞 | 梼 | 柢 | 柮 | 枹 | 柎 | 柆 | 极 | 㭘 | 喿 | 框 | 枃 | 桀 | 挎 | 楮 | 桎 | 梳 | 校 | 旌 | 档 | 桷 | 杵 | 泉 |  |
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 60 | 搨 | 槃 | 榧 | 㟳 | 榑 | 㮛 | 榜 | 榕 | 榴 | 橦 | 槨 | 樂 | 樛 | 槿 | 權 | 䊗 | 矢 | 軗 | 樅 | 榱 | 樞 | 棫 | 相 | 椙 |
| 1 | 0 | 1 | 1 | 1 | 0 | 1 | 61 | 碂 | 殫 | 殯 | 斌 | 殱 | 召 | 挀 | 款 | 唯 | 如 | 诲 | 㲬 | 毯 | 毠 | 電 | 毛 | 廐 | 氈 | 蚟 | 气 | 氯 | 囱 | 異 | ］ |
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 62 | 湮 | 渏 | 渏渙 | 暧 | 湟 | 渾 | 椬 | 㳔 | 渫 | 湶 | 湍 | 淳 | 㸷 | 础 | 湎， | 渤 | 滿 | 渝 | 游 | 溂 | 溪 | 溘 | 淏 | 囷 |
|  | 0 |  | 1 | 1 | 1 | 1 | 63 | 湍 | 澖 |  |  |  |  | 炒 | 烟 | 极媌 |  | 炸 |  | 炮 | 烟 | 休 | 埊 | 烙 |  | 烘 | 烟 |  |  |  |  |




| （10） |  |  |  |  |  |  |  |  | b7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | 第 $\mathrm{b}_{6}$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | － | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | $2 \square 65$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  | バb4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  | 1 b3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  | b2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| Premier multiplet |  |  |  |  |  |  |  |  | b1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | $\bigcirc$ | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  |  |  |  |  |  |  |  |  | 点 | $24$ |  | $26$ | $272$ |  |  |  |  | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| b7 | b6 |  | 65 | b4 | b3 | b2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 |  | 0 | 0 | 0 | 0 | 0 |  | 64 | 恽 | 㥽 | 㮫 | 犹 | 犲 | 狙 | 狆 | 狄 | 归 | 狒 | 務 | 拨 | 狡 | 㹼 | 漒 | 候 | 猗 | 猊 | 狫 | 猖 | 猝 | 猴 | 猯 | 桯 |
| 1 | 1 |  | 0 | 0 | 0 | 0 |  | 1 | 65 | 畍 | 讲 | 䧅 | 昣 | 畝 | 参 | 泷 | 畤 | 罟 | 畵 | 畭 | 踦 | 當 | 彋 | 䁣 | 畴 | 畳 | 礐 | 畳 | 疗 | 痏 | 疝 | 疥 | 庞 |
| 1 | 1 |  | 0 | 0 | 0 | 1 |  | 0 | 66 | 盡 | 盃 | 蘆 | 温 | 蒀 | 䀟 | 眈 | 眇 | 㬉 | 眩 | 眤 | 眞 | 㫮 | 甠地 | 眜 | 参 | 睡 | 睇 | 旺蜑 | 晲見 | 睷 | 睛 | 脾 | 窓 |
| 1 | 1 |  | 0 | $\bigcirc$ | 0 | 1 |  | 1 | 67 | 䄈 | 祸 | 䊧 | 禹 | 禺 | 秉 | 䄳 | 秧 | 䅨 | 秡 | 柇 | 程 | 稍 | 稘 | 稙 | 槽 | 星 | 禀 | 稱 | 椬 | 高 | 䊩 | 穃 | 穗 |
| 1 | 1 |  | 0 | 0 | 1 | 0 |  | － | 68 | 惶 | 篒 | 筀 | 範 | 節 | 皦 | 箴 | 筦 | 篿 | 篩 | 答 | 筒 | 笣 | 䈢 | 籠 | 筫 | 簇 | 箴 | 箹 | 簉 | 築 | 簺 | 篤 | 筫 |
| 1 | 1 |  | 0 | 0 | 1 | 0 |  | 1 | 69 | 絽 | 綛 | 綺 | 棨 | 䋉 | 綵 | 緇 | 綽 | 絞 | 總 | 細 | 䍃 | 的 | 綸， | 綟 | 綰， | 縅 | 緝 | 緤 | 維䊽 | 経 | 紗 | 緹 | 緘 |
| 1 | 1 |  | 0 | 0 | 1 | 1 |  | 0 | 70 | 基 | 羚 | 莘 | 弹 | 義 | 堂 | 美 | 羒 | 羬 | 櫋 | 翅 | 䍂 | 竘 | 鬼 | 翔 | 易易 | 晜 | 均 | 䝧 | 颙 | 燔 | 者 | 老 | 素 |
| 1 | 1 |  | 0 | 0 | 1 | 1 |  | 1 | 71 | 膰 | 膵 | 膾 | 盛 | 腯 | 辟 | 臂 | 鹰 | 睃 |  | 臑 | 傜 | 臘 | 臈 | 臚 | 膕 | 絞 | 喊 | 臺 | 愫 | 因 | 舁 | 春 | 罳 |
| 1 | 1 |  | 0 | 1 | $\bigcirc$ | 0 |  | 0 | 72 | 䒩 | 免 | 荳 | 蓠 | 莠 | 莉 | 莨 | 菴 | 管 | 蓳 | 蕞 | 荍 | 萃 | 菘 | 菱 | 莣 | 茛 | 授 | 乼 | 菲 | 秤 | 萢 | 荫 | 莽 |
| 1 | 1 |  | 0 | 1 | 0 | 0 |  | 1 | 73 | 葲 | 藕 | 藝 | 薬 | 睝 | 荷 | 䔄 | 蘓 | 碩 | 萂 | 荺 | 蘆 | 蘢 | 鮮 | 穆 | 蘿 | 龙 | 书 | 虔 | 號 | 㱆 | 風 | 蚓 | 蝓 |
| 1 | 1 |  | 0 | 1 | 0 | 1 |  | 0 | 74 | 欹 | 䗨 | 蝰 | 蝠 | 蜉 | 蜶 | 蜗 | 蟃 | 蜽 | 袁 | 䖿 | 丳 | 䨘 | 需 | 霷 | 算 | 研 | 现 | 街 | 语 | 衞， | 楊 | 衫 | 袁 |
| 1 | 1 |  | 0 | 1 | 0 | 1 |  | 1 | 75 | 解 | 路 | 觝 | 觧 | 腹 | 觸 | 訃 | 記 | 訐 | 訌 | 䛘 | 訝 | 訥 | 訶 | 詁 | 詛 | 詒 | 丠 | 署 | 談 | 㴔 | 詥 | 誯 | 誅 |
| 1 | 1 |  | 0 | 1 | 1 | 0 |  | 0 | 76 | 苟 | 豹 | 玍 | 貉 | 貅 | 缅 | 䏒 | －営 | 貇 | 犹 | 貘 | 戝 | 质 | 貪 | 貽 | 紫 | 或 | 武 | 頑 | 賈 | 蛽 | 貹 | 賈 | 筫 |
| 1 | 1 |  | 0 | 1 | 1 | 0 |  | 1 | 77 | 擱 | 襄 | ！躡 | ，躬 | 躰 | 軆 | 粰 | 躾 | 雅 | 聽 | 軋 | 䡉 | 專 | 軟 | 軻 |  | 軾 | 輊 | 輅 | 輕 | 輣 | 輙 | 輓 | 摙輻 |
| 1 | 1 |  | 0 | 1 | 1 | 1 |  | 0 | 78 | 郙 | 邱 | 邵 | 郅 | 郤 | 居 | 郛 | 郘 | 梚 | 郧 | 賭 | 缶 | 酊 | 酺， | 酸 | 酣 | 酥 | 酩 | 酸 | 酲 | 醋 | 醉 | 醂 | 酶 |
| 1 | 1 |  | 0 | 1 | 1 | 1 |  | 1 | 79 | 鏝 | 鏐 | 鐩 | 鏤 | 鎾 | 鎳 | 鐓 | 鐃 | 鏳 | 鐐 | 鐶 | 鵭 | 鐵 | 鐵 | 鎲 |  | 鍳 | 鍺 | 鑛 | 䈠 | 鏬 | 鑥 | 鍩 | 釾 |
| 1 | 1 |  | 1 | 0 | 0 | 0 |  | 0 | 80 | 雜 | 䈕 | 雕 | 霓 | 霄 | 莛 | 需 | 霓 | 需 | 需 | 霏 | 霖 | 宾 | 雷 | 霔 | 震 | 露 | 寕 | 襡 | 霜 | 积 | 要重 | 震 | 酸 |
| 1 | 1 |  | 1 | 0 | 0 | 0 |  | 1 | 81 | 飨 | 餽 | 镏 | 䭅 | 饉 | 假 | 饐 | 瞶 | 䬻 | 㑲 | 饌 | 嘘 | 植 | 䁍 | 腺 | 䣕 | 馮 | 馼 | 嗎 | 駚 | 駝 | 駘 | 䮖 | 駭 |
| 1 | 1 |  | 1 | 0 | 0 | 1 |  | 0 | 82 | 鲱 | 鮞 | 鲍 | 鮖 | 鿴 | 鲛 | 跟质 | 鮨 | 䱦 | 锊 | 働 | 鮔 | 鯆 | 魝 | 鯹 | 鯒 | 鯣 | 鯢 | 鮭 | 鰡 | 鲱 | 鮻 | 缜 | 成䗂 |
| 1 | 1 |  | 1 | 0 | 0 | 1 |  | 1 | 83 | 䳝 | 熱 | 㿣 | 䤍 | 騳 | 鷭 | 疑鳥 | ，鸒 | 㜟 | 驚 | 篤 | 粵 | 践 | 監 | 塶 | 麘 | 豪 | 蕒 | 䃆 | 鲕 | 覜 | 野 | 兆 | 全䴳 |
| 1 | 1 |  | 1 | 0 | 1 | 0 |  | 0 | 84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 0 | 1 | 0 |  | 1 | 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 0 | 1 | 1 |  | 0 | 86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 0 | 1 | 1 |  | 1 | 87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 0 | 0 |  | 0 | 88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 0 | 0 |  | 1 | 89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 0 | 1 |  | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 0 | 1 |  | 1 | 91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 1 | 0 |  | 0 | 92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  | 1 | 1 | 1 | 0 |  | 1 | 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 |  | 1 | 1 | 1 | 1 |  | 0 | 94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

T0718760－93／d34



## 8．9 The Japanese－Katakana character set

Name：
Japanese katakana set
Registration：
No． 13
Number of characters：
94

|  |  |  |  |  | 10 | 11 | 12 | 13 | 14 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\mathrm{b}_{7}$ | 0 | 0 | 1 | 1 | 1 | 1 |
|  |  |  |  | $\mathrm{b}_{6}$ | 1 | 1 | 0 | 0 | 1 | 1 |
|  |  |  |  | $\mathrm{b}_{5}$ | 0 | 1 | 0 | 1 | 0 | 1 |
| $\mathrm{b}_{4}$ | $\mathrm{b}_{3}$ | $\mathrm{b}_{2}$ | $\mathrm{b}_{1}$ |  | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | 0 | 0 | 0 | 0 | $x$ | － | 7 | $\vdots$ | ， | 1 |
| 0 | 0 | 0 | 1 | 1 | a | ？ | 于 | 4 | ， | ， |
| 0 | 0 | 1 | 0 | 2 | ； | 亿 | リ | 入 | ＇ | ＇ |
| 0 | 0 | 1 | 1 | 3 | j | ウ | 示 | E | ＋ | ＇ |
| 0 | 1 | 0 | 0 | 4 | ， | I | F | $p$ | ＇ | ＇ |
| 0 | 1 | 0 | 1 | 5 | － | 才 | 十 | $\geq$ |  |  |
| 0 | 1 | 1 | 0 | 6 | 7 | 力 | $\pm$ | 3 |  |  |
| 0 | 1 | 1 | 1 | 7 | P | キ | 又 | 7 | $\stackrel{5}{\mathbf{0}}$ | 品 |
| 1 | 0 | 0 | 0 | 8 | 1 | 7 | 衣 | $\left.{ }^{\prime}\right)$ | ■ | ¢ |
| 1 | 0 | 0 | 1 | 9 | 2 | 个 | 1 | 1 |  |  |
| 1 | 0 | 1 | 0 | 10 | 工 | J | 今 | 1 | ＇ | ： |
| 1 | 0 | 1 | 1 | 11 | 才 | サ | t | 口 | $!$ | ＇ |
| 1 | 1 | 0 | 0 | 12 | ＋ | i | 7 | 7 | ＇， | ＇ |
| 1 | 1 | 0 | 1 | 13 | 1 | 入 | A | $\cdots$ | ， | ， |
| 1 | 1 | 1 | 0 | 14 | $\exists$ | 也 | 小 |  | ＇ | ＇ |
| 1 | 1 | 1 | 1 | 15 | $\%$ | Y | 7 | － | ， | ＞ |


| P/S | Bit comb | Name or description | P/S | Bit comb | Name or description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | 02/00 | This position shall not be used | S | 05/00 | KATAKANA MI |
| S | 02/01 | KATAKANA FULL STOP | S | 05/01 | KATAKANA MU |
| S | 02/02 | KATAKANA LEFT HOOK BRACKET | S | 05/02 | KATAKANA ME |
| S | 02/03 | KATAKANA RIGHT HOOK BRACKET | S | 05/03 | KATAKANA MO |
| S | 02/04 | KATAKANA COMMA | S | 05/04 | KATAKANA YA |
| S | 02/05 | KATAKANA CONJUNCTIVE SYMBOL | S | 05/05 | KATAKANA YU |
| S | 02/06 | KATAKANA WO | S | 05/06 | KATAKANA YO |
| S | 02/07 | SMALL KATAKANA A | S | 05/07 | KATAKANA RA |
| S | 02/08 | SMALL KATAKANA I | S | 05/08 | KATAKANA RI |
| S | 02/09 | SMALL KATAKANA U | S | 05/09 | KATAKANA RU |
| S | 02/10 | SMALL KATAKANA E | S | 05/10 | KATAKANA RE |
| S | 02/11 | SMALL KATAKANA O | S | 05/11 | KATAKANA RO |
| S | 02/12 | SMALL KATAKANA YA | S | 05/12 | KATAKANA WA |
| S | 02/13 | SMALL KATAKANA YU | S | 05/13 | KATAKANA N(M) |
| S | 02/14 | SMALL KATAKANA YO | S | 05/14 | VOICED SOUND SYMBOL |
| S | 02/15 | SMALL KATAKANA TSU | S | 05/15 | SEMI-VOICED SOUND SYMBOL |
| S | 03/00 | PROLONGED SOUND SYMBOL | S | 06/00 | This position is reserved |
| S | 03/01 | KATAKANA A | S | 06/01 | This position is reserved |
| S | 03/02 | KATAKANA I | S | 06/02 | This position is reserved |
| S | 03/03 | KATAKANA U | S | 06/03 | This position is reserved |
| S | 03/04 | KATAKANA E | S | 06/04 | This position is reserved |
| S | 03/05 | KATAKANA O | S | 06/05 | This position is reserved |
| S | 03/06 | KATAKANA KA | S | 06/06 | This position is reserved |
| S | 03/07 | KATAKANA KI | S | 06/07 | This position is reserved |
| S | 03/08 | KATAKANA KU | S | 06/08 | This position is reserved |
| S | 03/09 | KATAKANA KE | S | 06/09 | This position is reserved |
| S | 03/10 | KATAKANA KO | S | 06/10 | This position is reserved |
| S | 03/11 | KATAKANA SA | S | 06/11 | This position is reserved |
| S | 03/12 | KATAKANA SHI | S | 06/12 | This position is reserved |
| S | 03/13 | KATAKANA SU | S | 06/13 | This position is reserved |
| S | 03/14 | KATAKANA SE | S | 06/14 | This position is reserved |
| S | 03/15 | KATAKANA SO | S | 06/15 | This position is reserved |
| S | 04/00 | KATAKANA TA | S | 07/00 | This position is reserved |
| S | 04/01 | KATAKANA CHI | S | 07/01 | This position is reserved |
| S | 04/02 | KATAKANA TSU | S | 07/02 | This position is reserved |
| S | 04/03 | KATAKANA TE | S | 07/03 | This position is reserved |
| S | 04/04 | KATAKANA TO | S | 07/04 | This position is reserved |
| S | 04/05 | KATAKANA NA | S | 07/05 | This position is reserved |
| S | 04/06 | KATAKANA NI | S | 07/06 | This position is reserved |
| S | 04/07 | KATAKANA NU | S | 07/07 | This position is reserved |
| S | 04/08 | KATAKANA NE | S | 07/08 | This position is reserved |
| S | 04/09 | KATAKANA NO | S | 07/09 | This position is reserved |
| S | 04/10 | KATAKANA HA | S | 07/10 | This position is reserved |
| S | 04/11 | KATAKANA HI | S | 07/11 | This position is reserved |
| S | 04/12 | KATAKANA FU | S | 07/12 | This position is reserved |
| S | 04/13 | KATAKANA HE | S | 07/13 | This position is reserved |
| S | 04/14 | KATAKANA HO | S | 07/14 | This position is reserved |
| S | 04/15 | KATAKANA MA | S | 07/15 | This position shall not be used |

## Annex A

## List of registered character sets

(This annex forms an integral part of this Recommendation)

| Reg. No. | Name of registered set | Size <br> (Note 1) | Final character | G0 | G1 | G2 | G3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 165 | Chinese graphic character set for telecommunication | $94 \times 94$ | 04/05 | x | X | X | X |
| 89 | Arabic primary set of graphic characters | 94 | 06/11 | x | x | x | X |
| 168 | Japanese-Kanji graphic character set for information interchange (2 byte set) JIS X 0208-1990 | $94 \times 94$ | $\begin{gathered} 04 / 02 \\ (\text { Note } 2) \end{gathered}$ | X | X | x | X |
| 150 | Greek primary set of graphic characters | 94 | 04/00 | X | X | X | X |
| 164 | Hebrew supplementary set | 96 | 05/03 |  | X | x | X |
| 144 | Cyrillic supplementary set | 96 | 04/12 |  | X | X | X |
| 153 | Russian supplementary set of graphic characters | 96 | 04/15 |  | X | X | X |
| 13 | Japanese Katakana set | 94 | 04/09 |  | X | X | X |
| (Note 3) | Greek supplementary set of graphic characters | 96 |  |  | X | X | X |

## NOTES

1 The 94 or 96 character set applies only to single byte graphic character sets. The $94 \times 94$ set applies to two byte graphic character set. Primary control sets are C0. Supplementary control sets are C1. Complete code is also referred to as "Coding System different from that of ISO 2022".

2 The final character for the Japanese Kanji set is the same as registration No. 87 with the addition of two new characters indicated by the addition of ESC 02/06 04/00.
3 See 8.6 - Note, at the bottom of the code table of the Greek supplementary set.

## Annex B

## Guidelines for generating and presenting the names of characters

 and control functions in CCITT Recommendations(This annex forms an integral part of this Recommendation)

## B. 1 General

The guidelines described in this section specify the rules for generating and presenting the names of characters in Recommendation T.52. These guidelines provide a uniform way of generating and presenting the names of graphic characters and control functions. The names for graphic characters are not required in two-byte ideographic sets.

## B. 2 Rules for presentation of characters and control functions

## Rule 1

By convention only capital letters, space and hyphen shall be used for writing the names of characters.

## Rule 2

The names of control functions shall be coupled with an acronym consisting of capital letters and, where required, of digits. Once the name has been specified for the first time, the acronym may be used in the remainder of the text where required for simplification and clarity of the text.

Exceptionally, acronyms may be used for graphic characters where usage already exists and clarity requires it, in particular in code tables.

## Examples

Name: LOCKING-SHIFT TWO RIGHT
Abbreviation: LS2R
Name: SOFT-HYPHEN
Abbreviation: SHY

## Rule 3

In some cases the name of a character can be followed by an additional explanatory statement not part of the name. These statements shall be in parentheses and not in capital letters except the initials of the words where required.

## Rule 4

The name of a character wherever possible denotes its customary meaning, for example PLUS SIGN. Where this is not possible, names should describe shapes, not usage, for example UPWARD ARROW.

## Rule 5

In principle only one name shall be given to each character. Exceptions to this rule are tolerated where no other solution appears reasonably possible (e.g. HYPHEN, MINUS).

## Rule 6

The names shall be constructed from an appropriate set of the applicable terms of the following table and ordered in the sequence of the table.

| SCRIPT | CASE | TYPE | ATTRIBUTE | DESIGNATION | MARK(s) | QUALIFIER | LANGUAGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

## Examples of terms

| Script: | Latin, Cyrillic |
| :--- | :--- |
| Case: | capital, small |
| Type: | letter, ligature, digit |
| Attribute: | final, terminal, sharp, short, subscript, vulgar |
| Designation: | number, customary, name |
| Mark: | acute accent, small iota below, ring above |
| Qualifier: | sign, symbol, abbreviation |
| Language: | French, English (small letters) |

## Examples of names

$\begin{array}{lllll}1 & 2 & 3 & 5 & 7\end{array}$
LATIN CAPITAL LETTER A WITH ACUTE ACCENT
$\begin{array}{lllll}1 & 2 & 3 & 5 & 8\end{array}$
CYRILLIC SMALL LETTER IE (Ukrainian)
$5 \quad 7$
NUMBER SIGN
45
SOFT HYPHEN
$\begin{array}{llll}1 & 2 & 3 & 7\end{array}$
CYRILLIC CAPITAL SOFT SIGN
4
5
LEFT CURLY BRACKET

## Rule 7

The letters of the Latin script shall be represented within their name by their basic symbols (i.e. $\mathrm{A}, \mathrm{B}, \ldots \mathrm{a}, \mathrm{b}, \ldots$ ). The letters of all other scripts shall be represented by their transcription in the language of the published Recommendation.

NOTE - It is intended to align the names of the letters with those in ISO/IEC 10646.

## Examples

K: LATIN CAPITAL LETTER K
: HEBREW LETTER ALEF

## Rule 8

In principle when a character of a given script is used in more than one language, no language name is specified. Exceptions are tolerated where else an ambiguity would result. In this case, the language is specified at the end in parentheses, in small letters.

## Example

I: CYRILLIC CAPITAL LETTER I (Byelorussian-Ukrainian)

## Rule 9

Letters that are elements of a complete alphabet are considered different even if their shape is the same; they shall have different names.

## Examples

A: LATIN CAPITAL LETTER A
A: GREEK CAPITAL LETTER ALPHA
A : CYRILLIC CAPITAL LETTER A

## Rule 10

A letter of a script used in isolation in another script, in particular as graphic symbol in relation with physical units or dimensions, is considered as a character different from the letter of its natural alphabet.

## Examples

```
\Omega: OHM SIGN
\mu: MICRO SIGN
```


## Rule 11

A number of characters have traditionally a name consisting of one or two words. It is not intended to change this usage.

## Examples

SPACE, APOSTROPHE, COLON, COMMERCIAL AT, etc.

## Rule 12

In some cases characters of a given script, often punctuation marks are used in another script for a different usage. In this case the customary name reflecting the most general use will be given to the character. The customary name may be followed in the list of characters in the Recommendation by the name in parentheses which this character has in the script specified by this particular Recommendation.

## Example

;: SEMICOLON (Erotimatiko)


[^0]:    r0814640-93/d22

