

WordPerfect 5.1

Character Set

# ASCII

Charset: 0

Contains: ASCII space through tilde.

|      |    |                     |
|------|----|---------------------|
| 0,32 |    | (Space)             |
| 0,33 | !  | (Exclamation Point) |
| 0,34 | "  | (Double Quote)      |
| 0,35 | #  | (Number/Pound)      |
| 0,36 | \$ | (Dollars)           |
| 0,37 | %  | (Percent)           |
| 0,38 | &  | (Ampersand)         |
| 0,39 | '  | (Single Quote)      |
| 0,40 | (  | (Left Parenthesis)  |
| 0,41 | )  | (Right Parenthesis) |
| 0,42 | *  | (Asterisk)          |
| 0,43 | +  | (Plus)              |
| 0,44 | ,  | (Comma)             |
| 0,45 | -  | (Hyphen)            |
| 0,46 | .  | (Period)            |
| 0,47 | /  | (Forward Slash)     |
| 0,48 | 0  |                     |
| 0,49 | 1  |                     |
| 0,50 | 2  |                     |
| 0,51 | 3  |                     |
| 0,52 | 4  |                     |
| 0,53 | 5  |                     |
| 0,54 | 6  |                     |
| 0,55 | 7  |                     |
| 0,56 | 8  |                     |
| 0,57 | 9  |                     |
| 0,58 | :  | (Colon)             |
| 0,59 | ;  | (Semicolon)         |
| 0,60 | <  | (Less Than)         |
| 0,61 | =  | (Equals)            |
| 0,62 | >  | (Greater Than)      |
| 0,63 | ?  | (Question Mark)     |
| 0,64 | @  | (At)                |
| 0,65 | A  |                     |
| 0,66 | B  |                     |
| 0,67 | C  |                     |
| 0,68 | D  |                     |
| 0,69 | E  |                     |
| 0,70 | F  |                     |
| 0,71 | G  |                     |
| 0,72 | H  |                     |
| 0,73 | I  |                     |
| 0,74 | J  |                     |
| 0,75 | K  |                     |

|       |   |                       |
|-------|---|-----------------------|
| 0,76  | L |                       |
| 0,77  | M |                       |
| 0,78  | N |                       |
| 0,79  | O |                       |
| 0,80  | P |                       |
| 0,81  | Q |                       |
| 0,82  | R |                       |
| 0,83  | S |                       |
| 0,84  | T |                       |
| 0,85  | U |                       |
| 0,86  | V |                       |
| 0,87  | W |                       |
| 0,88  | X |                       |
| 0,89  | Y |                       |
| 0,90  | Z |                       |
| 0,91  | [ | (Left Bracket)        |
| 0,92  | \ | (Backslash)           |
| 0,93  | ] | (Right Bracket)       |
| 0,94  | ^ | (Caret)               |
| 0,95  | _ | (Underscore)          |
| 0,96  | ` | (ASCII Grave)         |
| 0,97  | a |                       |
| 0,98  | b |                       |
| 0,99  | c |                       |
| 0,100 | d |                       |
| 0,101 | e |                       |
| 0,102 | f |                       |
| 0,103 | g |                       |
| 0,104 | h |                       |
| 0,105 | i |                       |
| 0,106 | j |                       |
| 0,107 | k |                       |
| 0,108 | l |                       |
| 0,109 | m |                       |
| 0,110 | n |                       |
| 0,111 | o |                       |
| 0,112 | p |                       |
| 0,113 | q |                       |
| 0,114 | r |                       |
| 0,115 | s |                       |
| 0,116 | t |                       |
| 0,117 | u |                       |
| 0,118 | v |                       |
| 0,119 | w |                       |
| 0,120 | x |                       |
| 0,121 | y |                       |
| 0,122 | z |                       |
| 0,123 | { | (Left Brace)          |
| 0,124 |   | (Broken Vertical Bar) |

0,125 } (Right Brace)  
0,126 ~ (ASCII Tilde)

# Multinational 1

Charset: 1

Contains: Common capitalizable multinational characters, diacriticals, and non-capitalizable multinational characters.

|      |   |                                    |
|------|---|------------------------------------|
| 1,0  | ` | Grave                              |
| 1,1  | · | Centred Dot                        |
| 1,2  | ~ | Tilde                              |
| 1,3  | ^ | Circumflex                         |
| 1,4  | - | Horizontal Bar                     |
| 1,5  | / | Forward Slash                      |
| 1,6  | ´ | Acute                              |
| 1,7  | ¨ | Diaeresis (Umlaut)                 |
| 1,8  | - | Macron                             |
| 1,9  | ’ | Apostrophe Accent Above            |
| 1,10 | ’ | Apostrophe Accent After and Above  |
| 1,11 | ’ | Apostrophe Accent Before and Above |
| 1,12 | , | Apostrophe Accent Below            |
| 1,13 | ’ | Apostrophe Accent Beside           |
| 1,14 | ◊ | Ring                               |
| 1,15 | · | Dot Above                          |
| 1,16 | ˝ | Double Acute (Hungarian Umlaut)    |
| 1,17 | ¸ | Cedilla                            |
| 1,18 | ˆ | Ogonek (Polish Hook)               |
| 1,19 | ˇ | Caron (Hachek)                     |
| 1,20 | ˘ | Stroke                             |
| 1,21 | - | Overline (Long Mark)               |
| 1,22 | ˘ | Breve                              |
| 1,23 | ß | German Double s                    |
| 1,24 | ı | Dotless i                          |
| 1,25 | ĵ | Dotless j                          |
| 1,26 | Á | A Acute                            |
| 1,27 | á | a Acute                            |
| 1,28 | Â | A Circumflex                       |
| 1,29 | â | a Circumflex                       |
| 1,30 | Ä | A Diaeresis (Umlaut)               |
| 1,31 | ä | a Diaeresis (Umlaut)               |
| 1,32 | À | A Grave                            |
| 1,33 | à | a Grave                            |
| 1,34 | Å | A Ring                             |
| 1,35 | å | a Ring                             |
| 1,36 | Æ | AE Digraph                         |
| 1,37 | æ | ae Digraph                         |
| 1,38 | Ç | C Cedilla                          |
| 1,39 | ç | c Cedilla                          |
| 1,40 | É | E Acute                            |
| 1,41 | é | e Acute                            |
| 1,42 | Ê | E Circumflex                       |

|      |   |                      |
|------|---|----------------------|
| 1,43 | ê | e Circumflex         |
| 1,44 | Ë | E Diaeresis (Umlaut) |
| 1,45 | ë | e Diaeresis (Umlaut) |
| 1,46 | È | E Grave              |
| 1,47 | è | e Grave              |
| 1,48 | Í | I Acute              |
| 1,49 | í | i Acute              |
| 1,50 | Î | I Circumflex         |
| 1,51 | î | i Circumflex         |
| 1,52 | Ï | I Diaeresis (Umlaut) |
| 1,53 | ï | i Diaeresis (Umlaut) |
| 1,54 | Ì | I Grave              |
| 1,55 | ì | i Grave              |
| 1,56 | Ñ | N Tilde              |
| 1,57 | ñ | n Tilde              |
| 1,58 | Ó | O Acute              |
| 1,59 | ó | o Acute              |
| 1,60 | Ô | O Circumflex         |
| 1,61 | ô | o Circumflex         |
| 1,62 | Ö | O Diaeresis (Umlaut) |
| 1,63 | ö | o Diaeresis (Umlaut) |
| 1,64 | Ò | O Grave              |
| 1,65 | ò | o Grave              |
| 1,66 | Ú | U Acute              |
| 1,67 | ú | u Acute              |
| 1,68 | Û | U Circumflex         |
| 1,69 | û | u Circumflex         |
| 1,70 | Ü | U Diaeresis (Umlaut) |
| 1,71 | ü | u Diaeresis (Umlaut) |
| 1,72 | Ù | U Grave              |
| 1,73 | ù | u Grave              |
| 1,74 | ÿ | Y Diaeresis (Umlaut) |
| 1,75 | ÿ | y Diaeresis (Umlaut) |
| 1,76 | Ã | A Tilde              |
| 1,77 | ã | a Tilde              |
| 1,78 | Ð | D Cross Bar          |
| 1,79 | ð | d Cross Bar          |
| 1,80 | Ø | O Slash              |
| 1,81 | ø | o Slash              |
| 1,82 | Ö | O Tilde              |
| 1,83 | õ | o Tilde              |
| 1,84 | Ý | Y Acute              |
| 1,85 | ý | y Acute              |
| 1,86 | Ð | Uppercase Eth        |
| 1,87 | ð | Lowercase Eth        |
| 1,88 | Þ | Uppercase Thorn      |
| 1,89 | þ | Lowercase Thorn      |
| 1,90 | Ă | A Breve              |
| 1,91 | ă | a Breve              |

|       |    |                              |
|-------|----|------------------------------|
| 1,92  | Ā  | A Macron                     |
| 1,93  | ā  | a Macron                     |
| 1,94  | Ą  | A Ogonek                     |
| 1,95  | ą  | a Ogonek                     |
| 1,96  | Ć  | C Acute                      |
| 1,97  | ć  | c Acute                      |
| 1,98  | Č  | C Caron (Hachek)             |
| 1,99  | č  | c Caron (Hachek)             |
| 1,100 | Ĉ  | C Circumflex                 |
| 1,101 | ĉ  | c Circumflex                 |
| 1,102 | Ċ  | C Dot Above                  |
| 1,103 | ċ  | c Dot Above                  |
| 1,104 | Ď  | D Caron (Hachek)             |
| 1,105 | ď  | d Caron (Hachek)             |
| 1,106 | Ě  | E Caron (Hachek)             |
| 1,107 | ě  | e Caron (Hachek)             |
| 1,108 | Ė  | E Dot Above                  |
| 1,109 | ė  | e Dot Above                  |
| 1,110 | Ē  | E Macron                     |
| 1,111 | ē  | e Macron                     |
| 1,112 | Ę  | E Ogonek                     |
| 1,113 | ę  | e Ogonek                     |
| 1,114 | Ĝ  | G Acute                      |
| 1,115 | ĝ  | g Acute                      |
| 1,116 | Ġ  | G Breve                      |
| 1,117 | ġ  | g Breve                      |
| 1,118 | Ģ  | G Caron (Hachek)             |
| 1,119 | ģ  | g Caron (Hachek)             |
| 1,120 | Ĝ  | G Cedilla                    |
| 1,121 | ĝ  | g Cedilla (Apostrophe Above) |
| 1,122 | Ĝ  | G Circumflex                 |
| 1,123 | ĝ  | g Circumflex                 |
| 1,124 | Ġ  | G Dot Above                  |
| 1,125 | ġ  | g Dot Above                  |
| 1,126 | Ĥ  | H Circumflex                 |
| 1,127 | ĥ  | h Circumflex                 |
| 1,128 | Ħ  | H Cross Bar                  |
| 1,129 | ħ  | h Cross Bar                  |
| 1,130 | İ  | I Dot Above                  |
| 1,131 | ı  | i Dot Above                  |
| 1,132 | Ī  | I Macron                     |
| 1,133 | ī  | i Macron                     |
| 1,134 | Į  | I Ogonek                     |
| 1,135 | į  | i Ogonek                     |
| 1,136 | İ  | I Tilde                      |
| 1,137 | ĩ  | i Tilde                      |
| 1,138 | IJ | IJ Digraph                   |
| 1,139 | ij | ij Digraph                   |
| 1,140 | Ĵ  | J Circumflex                 |

|       |   |                  |
|-------|---|------------------|
| 1,141 | ĵ | j Circumflex     |
| 1,142 | Ꞥ | K Cedilla        |
| 1,143 | ķ | k Cedilla        |
| 1,144 | Ĺ | L Acute          |
| 1,145 | ĺ | l Acute          |
| 1,146 | Ľ | L Caron (Hachek) |
| 1,147 | ľ | l Caron (Hachek) |
| 1,148 | Ŀ | L Cedilla        |
| 1,149 | ź | l Cedilla        |
| 1,150 | Ł | L Centre Dot     |
| 1,151 | ł | l Centre Dot     |
| 1,152 | Ł | L Stroke         |
| 1,153 | ł | l Stroke         |
| 1,154 | Ń | N Acute          |
| 1,155 | ń | n Acute          |
| 1,156 | Ň | N Apostrophe     |
| 1,157 | ň | n Apostrophe     |
| 1,158 | Ņ | N Caron (Hachek) |
| 1,159 | ņ | n Caron (Hachek) |
| 1,160 | Ŋ | N Cedilla        |
| 1,161 | ņ | n Cedilla        |
| 1,162 | Ŏ | O Double Acute   |
| 1,163 | õ | o Double Acute   |
| 1,164 | Ō | O Macron         |
| 1,165 | ō | o Macron         |
| 1,166 | Œ | OE Digraph       |
| 1,167 | œ | oe Digraph       |
| 1,168 | Ŕ | R Acute          |
| 1,169 | ŗ | r Acute          |
| 1,170 | Ř | R Caron (Hachek) |
| 1,171 | ř | r Caron (Hachek) |
| 1,172 | Ŗ | R Cedilla        |
| 1,173 | ŗ | r Cedilla        |
| 1,174 | Ŝ | S Acute          |
| 1,175 | ś | s Acute          |
| 1,176 | Š | S Caron (Hachek) |
| 1,177 | š | s Caron (Hachek) |
| 1,178 | Ş | S Cedilla        |
| 1,179 | ş | s Cedilla        |
| 1,180 | Ŝ | S Circumflex     |
| 1,181 | ŝ | s Circumflex     |
| 1,182 | Ť | T Caron (Hachek) |
| 1,183 | ť | t Caron (Hachek) |
| 1,184 | Ṭ | T Cedilla        |
| 1,185 | ṭ | t Cedilla        |
| 1,186 | Ṧ | T Cross Bar      |
| 1,187 | ṧ | t Cross Bar      |
| 1,188 | Ŭ | U Breve          |
| 1,189 | ű | u Breve          |



|       |    |                     |
|-------|----|---------------------|
| 1,190 | Ů  | U Double Acute      |
| 1,191 | ů  | u Double Acute      |
| 1,192 | Ū  | U Macron            |
| 1,193 | ū  | u Macron            |
| 1,194 | Ů  | U Ogonek            |
| 1,195 | ů  | u Ogonek            |
| 1,196 | Ů  | U Ring              |
| 1,197 | ů  | u Ring              |
| 1,198 | Ů  | U Tilde             |
| 1,199 | ů  | u Tilde             |
| 1,200 | Ŵ  | W Circumflex        |
| 1,201 | ŵ  | w Circumflex        |
| 1,202 | Ŷ  | Y Circumflex        |
| 1,203 | ŷ  | y Circumflex        |
| 1,204 | Ž  | Z Acute             |
| 1,205 | ž  | z Acute             |
| 1,206 | Ž  | Z Caron (Hachek)    |
| 1,207 | ž  | z Caron (Hachek)    |
| 1,208 | Ž  | Z Dot Above         |
| 1,209 | ž  | z Dot Above         |
| 1,210 | Ŋ  | Uppercase Eng       |
| 1,211 | ŋ  | Lowercase Eng       |
| 1,212 | Ď  | D Macron            |
| 1,213 | ď  | d Macron            |
| 1,214 | Ĺ  | L Macron            |
| 1,215 | ĺ  | l Macron            |
| 1,216 | Ń  | N Macron            |
| 1,217 | ń  | n Macron            |
| 1,218 | Ŕ  | R Grave             |
| 1,219 | ř  | r Grave             |
| 1,220 | Š  | S Macron            |
| 1,221 | š  | s Macron            |
| 1,222 | Ť  | T Macron            |
| 1,223 | ť  | t Macron            |
| 1,224 | Ÿ  | Y Breve             |
| 1,225 | ÿ  | y Breve             |
| 1,226 | Ÿ  | Y Grave             |
| 1,227 | ÿ  | y Grave             |
| 1,228 | D' | D Apostrophe Beside |
| 1,229 | d' | d Apostrophe Beside |
| 1,230 | O' | O Apostrophe Beside |
| 1,231 | o' | o Apostrophe Beside |
| 1,232 | U' | U Apostrophe Beside |
| 1,233 | u' | u Apostrophe Beside |

## Multinational 2

Charset: 2

Contains: Rarely-used non-capitalizable multinational characters and diacriticals.

|      |    |   |
|------|----|---|
| 2,0  | .  | Dot Below                                 |
| 2,1  | ∴  | Double Dot Below                          |
| 2,2  | ◦  | Centred Ring                              |
| 2,3  | ◌◌ | Ring Below                                |
| 2,4  | ’  | Apostrophe Accent Above Off Centre        |
| 2,5  | ˘  | Circumflex Below                          |
| 2,6  | ≡  | Double Underline                          |
| 2,7  | —  | Macron Below (Underline)                  |
| 2,8  | ƙ  | Lowercase Greenlandic k                   |
| 2,9  | ◌◌ | Half Circle Below                         |
| 2,10 | ᵿ  | Vertical Tilde                            |
| 2,11 | ‘  | Inverted Apostrophe Accent Above          |
| 2,12 | ’  | Inverted Mirrored Apostrophe Accent Above |
| 2,13 | ◌  | Mirrored Apostrophe Accent Below          |
| 2,14 | ◌  | Right Cedilla                             |
| 2,15 | ◌  | Non-connecting Cedilla (Mirrored Ogonek)  |
| 2,16 | ◌  | Hook (Tail) to the Left                   |
| 2,17 | ◌  | Hook (Tail) to the Right                  |
| 2,18 | ’  | Vertical Mark                             |
| 2,19 | ˆ  | Horn                                      |
| 2,20 | ◌  | Low Rising Tone Mark                      |
| 2,21 | ◌  | Rude                                      |
| 2,22 | ◌  | Ayn                                       |
| 2,23 | ◌  | Alif/Hamzah                               |
| 2,24 | ◌  | Upadhmaniya                               |
| 2,25 | ◌  | Candrabindu                               |
| 2,26 | ’  | Mjagkij Znak                              |
| 2,27 | ”  | Tverdyj Znak                              |

## Box Drawing

Charset: 3

Contains: All 81 double/single box drawing characters.

|      |      |                             |
|------|------|-----------------------------|
| 3,0  | ⋯    | Box [Shade 1]               |
| 3,1  | ⋯    | Box [Shade 2]               |
| 3,2  | ⋯    | Box [Shade 3]               |
| 3,3  | █    | Box [Shade 4]               |
| 3,4  | ┌    | Box [Left Shade]            |
| 3,5  | ┐    | Box [Top Shade]             |
| 3,6  | └    | Box [Right Shade]           |
| 3,7  | ┘    | Box [Bottom Shade]          |
| 3,8  | —    | Box [left right]            |
| 3,9  |      | Box [top bottom]            |
| 3,10 | ┌    | Box [right bottom]          |
| 3,11 | └    | Box [left bottom]           |
| 3,12 | ┐    | Box [left top]              |
| 3,13 | ┘    | Box [top right]             |
| 3,14 | └┘   | Box [top right bottom]      |
| 3,15 | ┌┐   | Box [left right bottom]     |
| 3,16 | ┌└   | Box [left top bottom]       |
| 3,17 | └┐   | Box [left top right]        |
| 3,18 | ┌┐└┘ | Box [left top right bottom] |
| 3,19 | =    | Box [LEFT RIGHT]            |
| 3,20 |      | Box [TOP BOTTOM]            |
| 3,21 | ┌└   | Box [RIGHT BOTTOM]          |
| 3,22 | ┐┘   | Box [LEFT BOTTOM]           |
| 3,23 | ┐┘   | Box [LEFT TOP]              |
| 3,24 | ┌┘   | Box [TOP RIGHT]             |
| 3,25 | └┘   | Box [TOP RIGHT BOTTOM]      |
| 3,26 | ┌┐   | Box [LEFT RIGHT BOTTOM]     |
| 3,27 | ┌┐   | Box [LEFT TOP BOTTOM]       |
| 3,28 | ┌┐   | Box [LEFT TOP RIGHT]        |
| 3,29 | ┌┐└┘ | Box [LEFT TOP RIGHT BOTTOM] |
| 3,30 | └    | Box [RIGHT bottom]          |
| 3,31 | ┌    | Box [LEFT bottom]           |
| 3,32 | ┐    | Box [LEFT top]              |
| 3,33 | ┘    | Box [top RIGHT]             |
| 3,34 | └    | Box [right BOTTOM]          |
| 3,35 | ┐    | Box [left BOTTOM]           |
| 3,36 | ┐    | Box [left TOP]              |
| 3,37 | ┘    | Box [TOP right]             |
| 3,38 | └┘   | Box [top RIGHT bottom]      |
| 3,39 | ┌┐   | Box [left right BOTTOM]     |
| 3,40 | ┌┐   | Box [LEFT top bottom]       |
| 3,41 | ┌┐   | Box [left TOP right]        |
| 3,42 | ┌┐   | Box [TOP right BOTTOM]      |
| 3,43 | ┌┐   | Box [LEFT RIGHT bottom]     |

|      |   |                             |
|------|---|-----------------------------|
| 3,44 |   | Box [left TOP BOTTOM]       |
| 3,45 | = | Box [LEFT top RIGHT]        |
| 3,46 |   | Box [left TOP right BOTTOM] |
| 3,47 | ≠ | Box [LEFT top RIGHT bottom] |
| 3,48 | - | Box [left]                  |
| 3,49 |   | Box [top]                   |
| 3,50 | - | Box [right]                 |
| 3,51 |   | Box [bottom]                |
| 3,52 | = | Box [LEFT]                  |
| 3,53 |   | Box [TOP]                   |
| 3,54 | = | Box [RIGHT]                 |
| 3,55 |   | Box [BOTTOM]                |
| 3,56 | ≠ | Box [left RIGHT]            |
| 3,57 | ≠ | Box [LEFT right]            |
| 3,58 |   | Box [top BOTTOM]            |
| 3,59 |   | Box [TOP bottom]            |
| 3,60 |   | Box [top right BOTTOM]      |
| 3,61 |   | Box [top RIGHT BOTTOM]      |
| 3,62 |   | Box [TOP right bottom]      |
| 3,63 |   | Box [TOP RIGHT bottom]      |
| 3,64 | ≠ | Box [left RIGHT bottom]     |
| 3,65 | ≠ | Box [left RIGHT BOTTOM]     |
| 3,66 | ≠ | Box [LEFT right bottom]     |
| 3,67 | ≠ | Box [LEFT right BOTTOM]     |
| 3,68 |   | Box [left top BOTTOM]       |
| 3,69 |   | Box [left TOP bottom]       |
| 3,70 |   | Box [LEFT top BOTTOM]       |
| 3,71 |   | Box [LEFT TOP bottom]       |
| 3,72 | ≠ | Box [left top RIGHT]        |
| 3,73 | ≠ | Box [left TOP RIGHT]        |
| 3,74 | ≠ | Box [LEFT top right]        |
| 3,75 | ≠ | Box [LEFT TOP right]        |
| 3,76 |   | Box [left top right BOTTOM] |
| 3,77 |   | Box [left top RIGHT BOTTOM] |
| 3,78 |   | Box [left top RIGHT bottom] |
| 3,79 |   | Box [left TOP right bottom] |
| 3,80 |   | Box [left TOP RIGHT bottom] |
| 3,81 |   | Box [left TOP RIGHT BOTTOM] |
| 3,82 |   | Box [LEFT top right bottom] |
| 3,83 |   | Box [LEFT top right BOTTOM] |
| 3,84 |   | Box [LEFT top RIGHT BOTTOM] |
| 3,85 |   | Box [LEFT TOP right bottom] |
| 3,86 |   | Box [LEFT TOP right BOTTOM] |
| 3,87 |   | Box [LEFT TOP RIGHT bottom] |

# Typographic Symbols

Charset: 4

Contains: Common typographic symbols not found in ASCII.

|      |    |                                      |
|------|----|--------------------------------------|
| 4,0  | ●  | Bullet                               |
| 4,1  | ○  | Hollow Bullet                        |
| 4,2  | ■  | Square Bullet                        |
| 4,3  | •  | Small Bullet                         |
| 4,4  | *  | Base Asterisk                        |
| 4,5  | ¶  | Paragraph Sign                       |
| 4,6  | §  | Section Sign                         |
| 4,7  | ¡  | Inverted Exclamation Point           |
| 4,8  | ¿  | Inverted Question Mark               |
| 4,9  | «  | Left Double Guillemet                |
| 4,10 | »  | Right Double Guillemet               |
| 4,11 | £  | Pound/Sterling                       |
| 4,12 | ¥  | Yen                                  |
| 4,13 | Pt | Pesetas                              |
| 4,14 | f  | Florin/Guilder                       |
| 4,15 | ª  | Feminine Spanish Ordinal             |
| 4,16 | º  | Masculine Spanish Ordinal            |
| 4,17 | ½  | 1/2                                  |
| 4,18 | ¼  | 1/4                                  |
| 4,19 | ¢  | Cent                                 |
| 4,20 | ²  | Power of 2                           |
| 4,21 | ⁿ  | Power of n                           |
| 4,22 | ®  | Registered Trademark                 |
| 4,23 | ©  | Copyright                            |
| 4,24 | ₱  | General Currency Symbol              |
| 4,25 | ¾  | 3/4                                  |
| 4,26 | ³  | Power of 3                           |
| 4,27 | ‘  | Left Single Quote (Like Inverted 6)  |
| 4,28 | ’  | Right Single Quote (Like 9)          |
| 4,29 | ‘  | Inverted Single Quote (Like 6)       |
| 4,30 | “  | Left Double Quote (Like Inverted 66) |
| 4,31 | ”  | Right Double Quote (Like 99)         |
| 4,32 | ”  | Inverted Double Quote (Like 66)      |
| 4,33 | –  | En Dash                              |
| 4,34 | —  | Em Dash                              |
| 4,35 | ‹  | Left Single Guillemet                |
| 4,36 | ›  | Right Single Guillemet               |
| 4,37 | ○  | Large Hollow Bullet                  |
| 4,38 | □  | Large Hollow Square Bullet           |
| 4,39 | †  | Dagger                               |
| 4,40 | ‡  | Double Dagger                        |
| 4,41 | ™  | Trademark                            |
| 4,42 | SM | Servicemark                          |
| 4,43 | ℞  | Prescription (Rx)                    |

|      |     |                                |
|------|-----|--------------------------------|
| 4,44 | ●   | Large Bullet                   |
| 4,45 | ○   | Small Hollow Bullet            |
| 4,46 | ■   | Large Square Bullet            |
| 4,47 | ▪   | Small Square Bullet            |
| 4,48 | □   | Hollow Square Bullet           |
| 4,49 | ◻   | Small Hollow Square Bullet     |
| 4,50 | –   | Figure Dash                    |
| 4,51 | ff  | Ligature ff                    |
| 4,52 | ffi | Ligature ffi                   |
| 4,53 | ffl | Ligature ffl                   |
| 4,54 | fi  | Ligature fi                    |
| 4,55 | fl  | Ligature fl                    |
| 4,56 | ... | Em Leader (Ellipsis)           |
| 4,57 | ₧   | Milreis/Escudo                 |
| 4,58 | ₣   | Francs                         |
| 4,59 | ₵   | Cruzado                        |
| 4,60 | €   | European Currency Symbol       |
| 4,61 | ₤   | Lire (Italian currency symbol) |
| 4,62 | ,   | Base Single Quote              |
| 4,63 | „   | Base Double Quote              |
| 4,64 | ⅓   | 1/3                            |
| 4,65 | ⅔   | 2/3                            |
| 4,66 | ⅛   | 1/8                            |
| 4,67 | ⅜   | 3/8                            |
| 4,68 | ⅝   | 5/8                            |
| 4,69 | ⅞   | 7/8                            |
| 4,70 | Ⓜ   | Circle M                       |
| 4,71 | Ⓟ   | Circle P                       |
| 4,72 | Ⓢ   | Circle U                       |
| 4,73 | %   | Care of                        |
| 4,74 | ‰   | Cadauna                        |
| 4,75 | ‰   | Per Thousand                   |
| 4,76 | Nº  | Number (No.)                   |
| 4,77 | -   | Three Fourths Em Dash          |
| 4,78 | ¹   | Power of 1                     |
| 4,79 | ␣   | HT (Horizontal Tab)            |
| 4,80 | ␣   | FF (Form Feed)                 |
| 4,81 | ␣   | CR (Carriage Return)           |
| 4,82 | ␣   | LF (Line Feed)                 |
| 4,83 | ␣   | NL (Newline)                   |
| 4,84 | ␣   | VT (Vertical Tab)              |

## Iconic Symbols

Charset: 5

Contains: Rarely-used "picture" (icon) symbols.

|      |    |                               |
|------|----|-------------------------------|
| 5,0  | ♥  | Heart                         |
| 5,1  | ♦  | Diamond                       |
| 5,2  | ♣  | Club                          |
| 5,3  | ♠  | Spade                         |
| 5,4  | ♂  | Male                          |
| 5,5  | ♀  | Female                        |
| 5,6  | ⊕  | Compass                       |
| 5,7  | ☺  | Happy Face                    |
| 5,8  | ☹  | Dark Happy Face               |
| 5,9  | ♪  | Eighth Note                   |
| 5,10 | ♫  | Sixteenth Notes               |
| 5,11 | ▬  | Horizontal Rectangle          |
| 5,12 | ⌠  | Small House                   |
| 5,13 | !! | Double Exclamation Mark       |
| 5,14 | √  | Bent Radical                  |
| 5,15 | ↕  | Underscored Up and Down Arrow |
| 5,16 | ┌  | Beginning of Line             |
| 5,17 | └  | Inverted Beginning of Line    |
| 5,18 | ▣  | Inverse Bullet                |
| 5,19 | ◻  | Inverse Hollow Bullet         |
| 5,20 | ↵  | Newline                       |
| 5,21 | ➡  | Right Pointing Index          |
| 5,22 | ➠  | Left Pointing Index           |
| 5,23 | ✓  | Check Mark                    |
| 5,24 | □  | Empty Ballot Box              |
| 5,25 | ☑  | Marked Ballot Box             |
| 5,26 | ☹  | Sad Face                      |
| 5,27 | #  | Sharp                         |
| 5,28 | b  | Flat                          |
| 5,29 | ♮  | Natural                       |
| 5,30 | ☎  | Telephone                     |
| 5,31 | 🕒  | Clock                         |
| 5,32 | 🕒  | Hourglass                     |
| 5,33 | ⌚  | Centreline                    |
| 5,34 | ␣  | Graphic Space                 |

## Math/Scientific

Charset: 6

Contains: Non-extensible, non-oversized math/scientific characters not found in ASCII set.

|      |   |                              |
|------|---|------------------------------|
| 6,0  | - | Minus                        |
| 6,1  | ± | Plus or Minus                |
| 6,2  | ≤ | Less Than Or Equal           |
| 6,3  | ≥ | Greater Than Or Equal        |
| 6,4  | ∞ | Proportional                 |
| 6,5  | / | Not (Slash)                  |
| 6,6  | / | Figure Slash (Fraction)      |
| 6,7  | \ | Figure Backslash (Set Minus) |
| 6,8  | ÷ | Division                     |
| 6,9  |   | Absolute Value (Divides)     |
| 6,10 | < | Left Angle Bracket (Bra)     |
| 6,11 | > | Right Angle Bracket (Ket)    |
| 6,12 | ~ | Similar                      |
| 6,13 | ≈ | Approximately Equal          |
| 6,14 | ≡ | Equivalent                   |
| 6,15 | ∈ | Member (Element)             |
| 6,16 | ∩ | Intersection                 |
| 6,17 | ∥ | Parallel                     |
| 6,18 | ∑ | Summation                    |
| 6,19 | ∞ | Infinity                     |
| 6,20 | ¬ | Logical Not                  |
| 6,21 | → | Right Arrow                  |
| 6,22 | ← | Left Arrow                   |
| 6,23 | ↑ | Up Arrow                     |
| 6,24 | ↓ | Down Arrow                   |
| 6,25 | ↔ | Left and Right Arrow         |
| 6,26 | ↕ | Up and Down Arrow            |
| 6,27 | ▶ | Solid Triangle Right         |
| 6,28 | ◀ | Solid Triangle Left          |
| 6,29 | ▲ | Solid Triangle Up            |
| 6,30 | ▼ | Solid Triangle Down          |
| 6,31 | · | Centre Dot                   |
| 6,32 | · | Small Centre Dot             |
| 6,33 | ◦ | Small Circle                 |
| 6,34 | • | Small Solid Circle           |
| 6,35 | Å | Angstrom                     |
| 6,36 | ° | Degree                       |
| 6,37 | μ | Micro                        |
| 6,38 | − | Raised Negative Sign         |
| 6,39 | × | Multiply (x)                 |
| 6,40 | ∫ | Integral                     |
| 6,41 | ∏ | Product                      |
| 6,42 | ± | Minus or Plus                |



|      |                          |  |
|------|--------------------------|--|
| 6,43 | $\nabla$                 | Nabla (Gradient)                       |
| 6,44 | $\partial$               | Partial Derivative                     |
| 6,45 | '                        | Prime                                  |
| 6,46 | "                        | Double Prime                           |
| 6,47 | $\rightarrow$            | Vector                                 |
| 6,48 | $\epsilon$               | Error (Script e)                       |
| 6,49 | $\ell$                   | Liter (Script l)                       |
| 6,50 | $\hbar$                  | Planck's Constant                      |
| 6,51 | $\text{\textcircled{S}}$ | Ifraktur                               |
| 6,52 | $\text{\textcircled{R}}$ | Rfraktur                               |
| 6,53 | $\wp$                    | Weierstrass                            |
| 6,54 | $\Rightarrow$            | Right and Left Arrows                  |
| 6,55 | $\Leftarrow$             | Left and Right Arrows                  |
| 6,56 | $\Rightarrow$            | Double Arrow Right (Implies)           |
| 6,57 | $\Leftarrow$             | Double Arrow Left (Implied By)         |
| 6,58 | $\Uparrow$               | Double Arrow Up                        |
| 6,59 | $\Downarrow$             | Double Arrow Down                      |
| 6,60 | $\Leftrightarrow$        | Double Arrow Left and Right (Iff)      |
| 6,61 | $\Updownarrow$           | Double Arrow Up and Down               |
| 6,62 | $\nearrow$               | Northeast Arrow                        |
| 6,63 | $\searrow$               | Southeast Arrow                        |
| 6,64 | $\swarrow$               | Northwest Arrow                        |
| 6,65 | $\nwarrow$               | Southwest Arrow                        |
| 6,66 | $\cup$                   | Union                                  |
| 6,67 | $\subset$                | Proper Subset                          |
| 6,68 | $\supset$                | Proper Superset                        |
| 6,69 | $\subseteq$              | Reflex Subset (Contained In or Equals) |
| 6,70 | $\supseteq$              | Reflex Superset (Contains or Equals)   |
| 6,71 | $\ni$                    | Such That (Contains as a Member)       |
| 6,72 | $\emptyset$              | Empty Set                              |
| 6,73 | $\lceil$                 | Left Ceiling                           |
| 6,74 | $\rceil$                 | Right Ceiling                          |
| 6,75 | $\lfloor$                | Left Floor                             |
| 6,76 | $\rfloor$                | Right Floor                            |
| 6,77 | $\ll$                    | Much Less                              |
| 6,78 | $\gg$                    | Much Greater                           |
| 6,79 | $\sphericalangle$        | Angle                                  |
| 6,80 | $\otimes$                | Circle Multiply                        |
| 6,81 | $\oplus$                 | Circle Plus                            |
| 6,82 | $\ominus$                | Circle Minus                           |
| 6,83 | $\oslash$                | Circle Divide                          |
| 6,84 | $\odot$                  | Circle Dot                             |
| 6,85 | $\wedge$                 | Logical And                            |
| 6,86 | $\vee$                   | Logical Or                             |
| 6,87 | $\veebar$                | Logical Exclusive Or                   |
| 6,88 | $\top$                   | Top                                    |
| 6,89 | $\perp$                  | Bottom                                 |
| 6,90 | $\frown$                 | Arc Overmark                           |
| 6,91 | $\vDash$                 | Assertion                              |

|       |                      |                                    |
|-------|----------------------|------------------------------------|
| 6,92  | $\mp$                | Mirrored Assertion                 |
| 6,93  | $\square$            | Square                             |
| 6,94  | $\blacksquare$       | Solid Square                       |
| 6,95  | $\diamond$           | Lozenge                            |
| 6,96  | $\blacklozenge$      | Solid Lozenge                      |
| 6,97  | $\llbracket$         | Left Double Bracket                |
| 6,98  | $\rrbracket$         | Right Double Bracket               |
| 6,99  | $\neq$               | Not Equal                          |
| 6,100 | $\neq$               | Not Equivalent                     |
| 6,101 | $\because$           | Because                            |
| 6,102 | $\therefore$         | Therefore                          |
| 6,103 | $\because$           | Identical (Four Dots)              |
| 6,104 | $\oint$              | Contour Integral                   |
| 6,105 | $\mathcal{L}$        | Laplace Transform (Script L)       |
| 6,106 | $\mathfrak{C}$       | Cfraktur                           |
| 6,107 | $\mathfrak{Z}$       | Zfraktur                           |
| 6,108 | $\mathcal{O}$        | (???) Capital Weierstrass (???)    |
| 6,109 | $\circ$              | Circle (Empty, For Operator)       |
| 6,110 | $\triangleq$         | Defined As (Underscored Triangle)  |
| 6,111 | $\diamond$           | Diamond                            |
| 6,112 | $\star$              | Solid Star                         |
| 6,113 | $\prime\prime\prime$ | Triple Prime                       |
| 6,114 | $\coprod$            | Coproduct                          |
| 6,115 | $\approx$            | Similar or Equal                   |
| 6,116 | $\cong$              | Congruent                          |
| 6,117 | $\prec$              | Precedes                           |
| 6,118 | $\preceq$            | Precedes or Equals                 |
| 6,119 | $\succ$              | Follows                            |
| 6,120 | $\succeq$            | Follows or Equals                  |
| 6,121 | $\exists$            | There Exists                       |
| 6,122 | $\forall$            | For All                            |
| 6,123 | $\ll$                | Much Much Less                     |
| 6,124 | $\gg$                | Much Much Greater                  |
| 6,125 | $\uplus$             | Multiset Union (U Plus)            |
| 6,126 | $\subsetneq$         | Subset But Does Not Equal          |
| 6,127 | $\supsetneq$         | Superset But Does Not Equal        |
| 6,128 | $\sqcap$             | Square Intersection                |
| 6,129 | $\sqcup$             | Square Union                       |
| 6,130 | $\sqsubset$          | Square Proper Subset               |
| 6,131 | $\sqsubseteq$        | Square Reflex Subset               |
| 6,132 | $\sqsubsetneq$       | Square Subset But Does Not Equal   |
| 6,133 | $\sqsupset$          | Square Proper Superset             |
| 6,134 | $\sqsupseteq$        | Square Reflex Superset             |
| 6,135 | $\sqsupsetneq$       | Square Superset But Does Not Equal |
| 6,136 | $\triangleup$        | Big Triangle Up                    |
| 6,137 | $\triangledown$      | Big Triangle Down                  |
| 6,138 | $\triangleleft$      | Small Triangle Left                |
| 6,139 | $\triangleright$     | Small Triangle Right               |
| 6,140 | $\bowtie$            | Bowtie                             |

|       |   |                                     |
|-------|---|-------------------------------------|
| 6,141 | ☺ | Smile                               |
| 6,142 | ☹ | Frown                               |
| 6,143 | ◯ | Big Circle                          |
| 6,144 | ↪ | Curly Right Arrow                   |
| 6,145 | ↩ | Hook Left Arrow                     |
| 6,146 | ↪ | Hook Right Arrow                    |
| 6,147 | ↗ | Maps To                             |
| 6,148 | ↖ | Left Harpoon Up                     |
| 6,149 | ↙ | Left Harpoon Down                   |
| 6,150 | ↘ | Right Harpoon Up                    |
| 6,151 | ↗ | Right Harpoon Down                  |
| 6,152 | ↔ | Right and Left Harpoons             |
| 6,153 | ↔ | Left and Right Harpoons             |
| 6,154 | ↑ | Up Harpoon Left                     |
| 6,155 | ↑ | Up Harpoon Right (Restriction)      |
| 6,156 | ↓ | Down Harpoon Left                   |
| 6,157 | ↓ | Down Harpoon Right                  |
| 6,158 | ⇒ | Two Right Arrows                    |
| 6,159 | ⇐ | Two Left Arrows                     |
| 6,160 | ∪ | Double Union                        |
| 6,161 | ∩ | Double Intersection                 |
| 6,162 | ⊂ | Double Subset                       |
| 6,163 | ⊃ | Double Superset                     |
| 6,164 | ⊙ | Circle Circle                       |
| 6,165 | ⊛ | Circle Asterisk                     |
| 6,166 | ⊖ | Circle Dash                         |
| 6,167 | ⊘ | Mho                                 |
| 6,168 | ∠ | Measured Angle                      |
| 6,169 | ∠ | Spherical Angle                     |
| 6,170 | ◁ | Triangle Left                       |
| 6,171 | ▷ | Triangle Right                      |
| 6,172 | △ | Triangle Up                         |
| 6,173 | ▽ | Triangle Down                       |
| 6,174 | + | Direct Sum (Dot Plus)               |
| 6,175 | ≐ | Equal by Definition                 |
| 6,176 | ≑ | Image (Falling Dots Equals)         |
| 6,177 | ≒ | Reverse Image (Rising Dots Equals)  |
| 6,178 | ≅ | Isomorphic                          |
| 6,179 | ≈ | Asymptotically Equivalent           |
| 6,180 | ⊥ | Perpendicular Double Right (Models) |
| 6,181 | ≍ | Corresponds To                      |
| 6,182 | ∋ | Between (Quantic)                   |
| 6,183 | ⋈ | Wreath Product                      |
| 6,184 | ★ | Large Solid Star                    |
| 6,185 | ⩾ | Not Less Than                       |
| 6,186 | ⩹ | Neither Less Than Nor Equal         |
| 6,187 | ⩿ | Not Greater Than                    |
| 6,188 | ⩺ | Neither Greater Than Nor Equal      |
| 6,189 | ⧸ | Not Similar                         |

|       |                   |                               |
|-------|-------------------|-------------------------------|
| 6,190 | $\neq$            | Not Similar or Equal          |
| 6,191 | $\not\cong$       | Not Congruent                 |
| 6,192 | $\not\approx$     | Not Approximately Equal       |
| 6,193 | $\nprec$          | Does Not Precede              |
| 6,194 | $\not\preceq$     | Neither Precedes Nor Equals   |
| 6,195 | $\nrightarrow$    | Does Not Follow               |
| 6,196 | $\not\rightarrow$ | Neither Follows Nor Equals    |
| 6,197 | $\not\subset$     | Not Subset                    |
| 6,198 | $\not\supset$     | Not Superset                  |
| 6,199 | $\not\subseteq$   | Not Reflex Subset             |
| 6,200 | $\not\supseteq$   | Not Reflex Superset           |
| 6,201 | $\not\sqsubset$   | Square Not Subset             |
| 6,202 | $\not\sqsupset$   | Square Not Superset           |
| 6,203 | $\not\sqsubseteq$ | Square Not Reflex Subset      |
| 6,204 | $\not\sqsupseteq$ | Square Not Reflex Superset    |
| 6,205 | $\nparallel$      | Not Parallel                  |
| 6,206 | $\nmid$           | Does Not Divide               |
| 6,207 | $\not\sim$        | Not Asymptotically Equivalent |
| 6,208 | $\nexists$        | There Never Exists            |
| 6,209 | $\notin$          | Not a Member (Not an Element) |
| 6,210 | $\not\cong$       | Not Isomorphic                |
| 6,211 | $\mathcal{E}$     | EMF (Script E)                |
| 6,212 | $\mathcal{F}$     | Fourier Transform (Script F)  |
| 6,213 | $\mathbb{C}$      | Complex Number (Hollow C)     |
| 6,214 | $\mathbb{I}$      | Integer (Hollow I)            |
| 6,215 | $\mathbb{N}$      | Natural Number (Hollow N)     |
| 6,216 | $\mathbb{R}$      | Real Number (Hollow R)        |
| 6,217 | $\stackrel{?}{=}$ | Questioned Equality           |
| 6,218 | $\perp$           | Right Angle                   |
| 6,219 | $\ni$             | Such That                     |
| 6,220 | $\cdots$          | Axis Ellipses                 |
| 6,221 | $\dots$           | Baseline Ellipses             |
| 6,222 | $\vdots$          | Vertical Ellipses             |
| 6,223 | $\ddots$          | Diagonal Ellipses             |
| 6,224 | $\text{...}$      | Triple Dot Diacritical        |
| 6,225 | $\text{...}$      | Dyad Diacritical              |
| 6,226 | $+$               | Plus                          |
| 6,227 | $-$               | Minus                         |
| 6,228 | $=$               | Equals                        |
| 6,229 | $*$               | Asterisk Multiply             |
| 6,230 | $'$               | Script Prime                  |
| 6,231 | $''$              | Script Double Prime           |
| 6,232 | $'''$             | Script Triple Prime           |
| 6,233 | $\mathcal{H}$     | Hamiltonian H                 |
| 6,234 | $\mathcal{P}$     | Script P                      |

## Math/Scientific Extension




































Charset: 7

Contains: Extensible and oversized math/scientific characters.







































|      |                |                                      |
|------|----------------|--------------------------------------|
| 7,0  | $\int$         | Integral [Top]                       |
| 7,1  | $\int$         | Integral [Bottom]                    |
| 7,2  | $\int$         | Integral [Extension]                 |
| 7,3  | $\text{---}$   | Horizontal Baseline Bar [Extender]   |
| 7,4  | $\sqrt{\quad}$ | Root [1x High]                       |
| 7,5  | $\text{---}$   | Root [Horiz Extension]               |
| 7,6  | $\Sigma$       | Summation [1.5x High]                |
| 7,7  | $\Pi$          | Product [1.5x High]                  |
| 7,8  | $\amalg$       | Coproduct [1.5x High]                |
| 7,9  | $\int$         | Integral [1.5x High]                 |
| 7,10 | $\oint$        | Contour Integral [1.5x High]         |
| 7,11 | $ $            | Absolute Value [1.5x High]           |
| 7,12 | $ $            | Absolute Value [2x High]             |
| 7,13 | $ $            | Absolute Value [3x High]             |
| 7,14 | $ $            | Absolute Value [4x High]             |
| 7,15 | $ $            | Absolute Value [Top/Bottom/Extender] |
| 7,16 | $  $           | Double Bar [1.5x High]               |
| 7,17 | $  $           | Double Bar [2x High]                 |
| 7,18 | $  $           | Double Bar [3x High]                 |
| 7,19 | $  $           | Double Bar [4x High]                 |
| 7,20 | $  $           | Double Bar [Top/Bottom/Extender]     |
| 7,21 | $\{$           | Left Brace [1.5x High]               |
| 7,22 | $\{$           | Left Brace [2x High]                 |
| 7,23 | $\{$           | Left Brace [3x High]                 |
| 7,24 | $\{$           | Left Brace [4x High]                 |
| 7,25 | $\{$           | Left Brace [Top]                     |
| 7,26 | $\{$           | Left Brace [Middle]                  |
| 7,27 | $\{$           | Left Brace [Bottom]                  |
| 7,28 | $\{$           | Left Brace [Extender]                |
| 7,29 | $\}$           | Right Brace [1.5x High]              |
| 7,30 | $\}$           | Right Brace [2x High]                |
| 7,31 | $\}$           | Right Brace [3x High]                |
| 7,32 | $\}$           | Right Brace [4x High]                |
| 7,33 | $\}$           | Right Brace [Top]                    |
| 7,34 | $\}$           | Right Brace [Middle]                 |
| 7,35 | $\}$           | Right Brace [Bottom]                 |
| 7,36 | $\}$           | Right Brace [Extender]               |
| 7,37 | $\lfloor$      | Left Floor [1.5x High]               |
| 7,38 | $\lfloor$      | Left Floor [2x High]                 |
| 7,39 | $\lfloor$      | Left Floor [3x High]                 |
| 7,40 | $\lfloor$      | Left Floor [4x High]                 |
| 7,41 | $\lfloor$      | Left Floor [Bottom]                  |
| 7,42 | $\lfloor$      | Left Floor [Top/Extender]            |
| 7,43 | $\rfloor$      | Right Floor [1.5x High]              |

|      |   |                                    |
|------|---|------------------------------------|
| 7,44 |   | Right Floor [2x High]              |
| 7,45 |   | Right Floor [3x High]              |
| 7,46 |   | Right Floor [4x High]              |
| 7,47 | ] | Right Floor [Bottom]               |
| 7,48 |   | Right Floor [Top/Extender]         |
| 7,49 | [ | Left Ceiling [1.5x High]           |
| 7,50 | [ | Left Ceiling [2x High]             |
| 7,51 | [ | Left Ceiling [3x High]             |
| 7,52 | [ | Left Ceiling [4x High]             |
| 7,53 |   | Left Ceiling [Top]                 |
| 7,54 |   | Left Ceiling [Bottom/Extender]     |
| 7,55 | ] | Right Ceiling [1.5x High]          |
| 7,56 | ] | Right Ceiling [2x High]            |
| 7,57 | ] | Right Ceiling [3x High]            |
| 7,58 | ] | Right Ceiling [4x High]            |
| 7,59 |   | Right Ceiling [Top]                |
| 7,60 |   | Right Ceiling [Bottom/Extender]    |
| 7,61 | U | Union [1.5x High]                  |
| 7,62 | ∩ | Intersection [1.5x High]           |
| 7,63 | ∮ | Contour Integral [Middle]          |
| 7,64 | — | Summation [Top Right]              |
| 7,65 | ↖ | Summation [Top Extension]          |
| 7,66 | ↙ | Summation [Top Angle]              |
| 7,67 | ↘ | Summation [Top Angle Extension]    |
| 7,68 | ↗ | Summation [Centre Angle]           |
| 7,69 | ↘ | Summation [Bottom Angle Extension] |
| 7,70 | ∟ | Summation [Bottom Angle]           |
| 7,71 | — | Summation [Bottom Extension]       |
| 7,72 | ∑ | Summation [Bottom Right]           |
| 7,73 | ∑ | Summation [2x High]                |
| 7,74 | ∏ | Product [2x High]                  |
| 7,75 | ∐ | Coproduct [2x High]                |
| 7,76 | ∫ | Integral [2x High]                 |
| 7,77 | ∮ | Contour Integral [2x High]         |
| 7,78 | √ | Root [1.5x High]                   |
| 7,79 | √ | Root [2x High]                     |
| 7,80 | √ | Root [3x High]                     |
| 7,81 | √ | Root [4x High]                     |
| 7,82 | √ | Root [Bottom]                      |
| 7,83 |   | Root [Vert Extension]              |
| 7,84 | ┌ | Root [Top Corner]                  |
| 7,85 | → | Horiz Arrow [Right]                |
| 7,86 | ← | Horiz Arrow [Left]                 |
| 7,87 | — | Horiz Arrow [Extension]            |
| 7,88 | ↵ | Horiz Arrow [Terminal Left Hook]   |
| 7,89 | ↶ | Horiz Arrow [Terminal Right Hook]  |
| 7,90 | ┘ | Horiz Arrow [Terminal Bar]         |
| 7,91 | ⇒ | Horiz Dbl Arrow [Right]            |
| 7,92 | ⇐ | Horiz Dbl Arrow [Left]             |

|       |      |                                 |
|-------|------|---------------------------------|
| 7,93  | =    | Horiz Dbl Arrow [Extension]     |
| 7,94  | ↑    | Vert Arrow [Up]                 |
| 7,95  | ↓    | Vert Arrow [Down]               |
| 7,96  |      | Vert Arrow [Extension]          |
| 7,97  | ↑↑   | Vert Dbl Arrow [Up]             |
| 7,98  | ↓↓   | Vert Dbl Arrow [Down]           |
| 7,99  |      | Vert Dbl Arrow [Extension]      |
| 7,100 | {    | Left Parenthesis [1.5x High]    |
| 7,101 | {    | Left Parenthesis [2x High]      |
| 7,102 | {    | Left Parenthesis [3x High]      |
| 7,103 | {    | Left Parenthesis [4x High]      |
| 7,104 | {    | Left Parenthesis [Top]          |
| 7,105 | {    | Left Parenthesis [Bottom]       |
| 7,106 |      | Left Parenthesis [Extender]     |
| 7,107 | }    | Right Parenthesis [1.5x High]   |
| 7,108 | }    | Right Parenthesis [2x High]     |
| 7,109 | }    | Right Parenthesis [3x High]     |
| 7,110 | }    | Right Parenthesis [4x High]     |
| 7,111 | }    | Right Parenthesis [Top]         |
| 7,112 | }    | Right Parenthesis [Bottom]      |
| 7,113 |      | Right Parenthesis [Extender]    |
| 7,114 | [    | Left Bracket [1.5x High]        |
| 7,115 | [    | Left Bracket [2x High]          |
| 7,116 | [    | Left Bracket [3x High]          |
| 7,117 | [    | Left Bracket [4x High]          |
| 7,118 | [    | Left Bracket [Top]              |
| 7,119 | [    | Left Bracket [Bottom]           |
| 7,120 |      | Left Bracket [Extender]         |
| 7,121 | ]    | Right Bracket [1.5x High]       |
| 7,122 | ]    | Right Bracket [2x High]         |
| 7,123 | ]    | Right Bracket [3x High]         |
| 7,124 | ]    | Right Bracket [4x High]         |
| 7,125 | ]    | Right Bracket [Top]             |
| 7,126 | ]    | Right Bracket [Bottom]          |
| 7,127 |      | Right Bracket [Extender]        |
| 7,128 | <    | Left Angle Bracket [1.5x High]  |
| 7,129 | <    | Left Angle Bracket [2x High]    |
| 7,130 | <    | Left Angle Bracket [3x High]    |
| 7,131 | <    | Left Angle Bracket [4x High]    |
| 7,132 | >    | Right Angle Bracket [1.5x High] |
| 7,133 | >    | Right Angle Bracket [2x High]   |
| 7,134 | >    | Right Angle Bracket [3x High]   |
| 7,135 | >    | Right Angle Bracket [4x High]   |
| 7,136 | /    | Figure Slash [1.5x High]        |
| 7,137 | //   | Figure Slash [2x High]          |
| 7,138 | ///  | Figure Slash [3x High]          |
| 7,139 | //// | Figure Slash [4x High]          |
| 7,140 | \    | Figure Backslash [1.5x High]    |
| 7,141 | \    | Figure Backslash [2x High]      |

|       |   |                                 |
|-------|---|---------------------------------|
| 7,142 |    | Figure Backslash [3x High]      |
| 7,143 |    | Figure Backslash [4x High]      |
| 7,144 |    | Union [2x High]                 |
| 7,145 |    | Intersection [2x High]          |
| 7,146 |    | Multiset Union [1.5x High]      |
| 7,147 |    | Multiset Union [2x High]        |
| 7,148 |    | Square Union [1.5x High]        |
| 7,149 |    | Square Union [2x High]          |
| 7,150 |    | Logical And [1.5x High]         |
| 7,151 |    | Logical And [2x High]           |
| 7,152 |    | Logical Or [1.5x High]          |
| 7,153 |    | Logical Or [2x High]            |
| 7,154 |    | Circle Multiply [1.5x High]     |
| 7,155 |   | Circle Multiply [2x High]       |
| 7,156 |  | Circle Plus [1.5x High]         |
| 7,157 |  | Circle Plus [2x High]           |
| 7,158 |  | Circle Dot [1.5x High]          |
| 7,159 |  | Circle Dot [2x High]            |
| 7,160 |  | Horiz Top Brace [Left End]      |
| 7,161 |  | Horiz Top Brace [Right End]     |
| 7,162 |  | Horiz Top Brace [Middle]        |
| 7,163 |  | Horiz Top Brace [Extension]     |
| 7,164 |  | Horiz Bottom Brace [Left End]   |
| 7,165 |  | Horiz Bottom Brace [Right End]  |
| 7,166 |  | Horiz Bottom Brace [Middle]     |
| 7,167 |  | Horiz Bottom Brace [Extension]  |
| 7,168 |  | Circumflex Overmark [1.5x Wide] |
| 7,169 |  | Circumflex Overmark [2x Wide]   |
| 7,170 |  | Circumflex Overmark [3x Wide]   |
| 7,171 |  | Tilde Overmark [1.5x Wide]      |
| 7,172 |  | Tilde Overmark [2x Wide]        |
| 7,173 |  | Tilde Overmark [3x Wide]        |
| 7,174 |  | Arc Overmark [1.5x Wide]        |
| 7,175 |  | Arc Overmark [2x Wide]          |
| 7,176 |  | Arc Overmark [3x Wide]          |
| 7,177 |  | Bar Overmark [1.5x Wide]        |
| 7,178 |  | Bar Overmark [2x Wide]          |
| 7,179 |  | Bar Overmark [3x Wide]          |
| 7,180 |  | Circle Minus [1.5x High]        |
| 7,181 |  | Circle Minus [2x High]          |
| 7,182 |  | Circle Divide [1.5x High]       |
| 7,183 |  | Circle Divide [2x High]         |
| 7,184 |  | Left Double Bracket [1.5x High] |
| 7,185 |  | Left Double Bracket [2x High]   |
| 7,186 |  | Left Double Bracket [3x High]   |
| 7,187 |  | Left Double Bracket [4x High]   |
| 7,188 |  | Left Double Bracket [Top]       |
| 7,189 |  | Left Double Bracket [Bottom]    |
| 7,190 |  | Left Double Bracket [Extender]  |



|       |   |                                    |
|-------|---|------------------------------------|
| 7,191 |    | Right Double Bracket [1.5x High]   |
| 7,192 |    | Right Double Bracket [2x High]     |
| 7,193 |    | Right Double Bracket [3x High]     |
| 7,194 |    | Right Double Bracket [4x High]     |
| 7,195 |    | Right Double Bracket [Top]         |
| 7,196 |    | Right Double Bracket [Bottom]      |
| 7,197 |    | Right Double Bracket [Extender]    |
| 7,198 |    | Horiz Harpoon [Right Harpoon Up]   |
| 7,199 |    | Horiz Harpoon [Right Harpoon Down] |
| 7,200 |    | Horiz Harpoon [Left Harpoon Up]    |
| 7,201 |    | Horiz Harpoon [Left Harpoon Down]  |
| 7,202 |    | Horiz Harpoon [Extension]          |
| 7,203 |    | Two Horiz Harpoons [Right Top]     |
| 7,204 |    | Two Horiz Harpoons [Right Bottom]  |
| 7,205 |    | Two Horiz Harpoons [Left Top]      |
| 7,206 |    | Two Horiz Harpoons [Left Bottom]   |
| 7,207 |    | Two Horiz Harpoons [Extension]     |
| 7,208 |    | Two Horiz Arrows [Right]           |
| 7,209 |    | Two Horiz Arrows [Left]            |
| 7,210 |    | Two Horiz Arrows [Extension]       |
| 7,211 |    | Mixed Horiz Arrows [Right Top]     |
| 7,212 |   | Mixed Horiz Arrows [Right Bottom]  |
| 7,213 |  | Mixed Horiz Arrows [Left Top]      |
| 7,214 |  | Mixed Horiz Arrows [Left Bottom]   |
| 7,215 |  | Mixed Horiz Arrows [Extension]     |
| 7,216 |  | Vert Harpoon [Up Harpoon Right]    |
| 7,217 |  | Vert Harpoon [Up Harpoon Left]     |
| 7,218 |  | Vert Harpoon [Down Harpoon Right]  |
| 7,219 |  | Vert Harpoon [Down Harpoon Left]   |
| 7,220 |  | Vert Harpoon [Extension]           |
| 7,221 |  | Square Intersection [1.5x High]    |
| 7,222 |  | Square Intersection [2x High]      |
| 7,223 |  | Square Division Sign               |
| 7,224 |  | Curved Division Sign               |
| 7,225 |  | Root Horiz Extension [1.5x High]   |
| 7,226 |  | Root Horiz Extension [2.0x High]   |
| 7,227 |  | Root Horiz Extension [2.5x High]   |
| 7,228 |  | Root Horiz Extension [Parts High]  |

## Greek

Charset: 8

Contains: Full greek character set for ancient and modern applications.

|      |   |                           |
|------|---|---------------------------|
| 8,0  | Α | ALPHA                     |
| 8,1  | α | alpha                     |
| 8,2  | Β | BETA                      |
| 8,3  | β | beta                      |
| 8,4  | Β | BETA (Medial or Terminal) |
| 8,5  | β | beta (Medial or Terminal) |
| 8,6  | Γ | GAMMA                     |
| 8,7  | γ | gamma                     |
| 8,8  | Δ | DELTA                     |
| 8,9  | δ | delta                     |
| 8,10 | Ε | EPSILON                   |
| 8,11 | ε | epsilon                   |
| 8,12 | Ζ | ZETA                      |
| 8,13 | ζ | zeta                      |
| 8,14 | Η | ETA                       |
| 8,15 | η | eta                       |
| 8,16 | Θ | THETA                     |
| 8,17 | θ | theta                     |
| 8,18 | Ι | IOTA                      |
| 8,19 | ι | iota                      |
| 8,20 | Κ | KAPPA                     |
| 8,21 | κ | kappa                     |
| 8,22 | Λ | LAMBDA                    |
| 8,23 | λ | lambda                    |
| 8,24 | Μ | MU                        |
| 8,25 | μ | mu                        |
| 8,26 | Ν | NU                        |
| 8,27 | ν | nu                        |
| 8,28 | Ξ | XI                        |
| 8,29 | ξ | xi                        |
| 8,30 | Ο | OMICRON                   |
| 8,31 | ο | omicron                   |
| 8,32 | Π | PI                        |
| 8,33 | π | pi                        |
| 8,34 | Ρ | RHO                       |
| 8,35 | ρ | rho                       |
| 8,36 | Σ | SIGMA                     |
| 8,37 | σ | sigma                     |
| 8,38 | Σ | SIGMA (Terminal)          |
| 8,39 | ς | sigma (Terminal)          |
| 8,40 | Τ | TAU                       |
| 8,41 | τ | tau                       |
| 8,42 | Υ | UPSILON                   |
| 8,43 | υ | upsilon                   |

|      |       |   |
|------|-------|---|
| 8,44 | Φ     | PHI                                     |
| 8,45 | φ     | phi                                     |
| 8,46 | Χ     | CHI                                     |
| 8,47 | χ     | chi                                     |
| 8,48 | Ψ     | PSI                                     |
| 8,49 | ψ     | psi                                     |
| 8,50 | Ω     | OMEGA                                   |
| 8,51 | ω     | omega                                   |
| 8,52 | ά     | alpha Acute                             |
| 8,53 | έ     | epsilon Acute                           |
| 8,54 | ή     | eta Acute                               |
| 8,55 | ί     | iota Acute                              |
| 8,56 | ϊ     | iota Diaeresis                          |
| 8,57 | ό     | omicron Acute                           |
| 8,58 | ύ     | upsilon Acute                           |
| 8,59 | ϋ     | upsilon Diaeresis                       |
| 8,60 | ώ     | omega Acute                             |
| 8,61 | ε     | epsilon (Variant)                       |
| 8,62 | θ     | theta (Variant)                         |
| 8,63 | κ     | kappa (Variant)                         |
| 8,64 | π     | pi (Variant)                            |
| 8,65 | ρ     | rho (Variant)                           |
| 8,66 | Ϛ     | sigma (Lunate)                          |
| 8,67 | φ     | Upsilon (Variant)                       |
| 8,68 | ϖ     | phi (Variant)                           |
| 8,69 | ;     | omega (Variant)                         |
| 8,70 | ·     | Greek Semicolon                         |
| 8,71 | ´     | Acute (Greek)                           |
| 8,72 | ¨     | Diaeresis (Greek)                       |
| 8,73 | ˆ     | Acute Diaeresis                         |
| 8,74 | ˘     | Grave Diaeresis                         |
| 8,75 | ̀     | Grave (Greek)                           |
| 8,76 | ˆ     | Circumflex (Greek)                      |
| 8,77 | ˊ     | Smooth Breathing                        |
| 8,78 | ˋ     | Rough Breathing                         |
| 8,79 | ˆ     | Iota Subscript                          |
| 8,80 | ˆˊ    | Smooth Breathing Acute                  |
| 8,81 | ˆˋ    | Rough Breathing Acute                   |
| 8,82 | ˘ˊ    | Smooth Breathing Grave                  |
| 8,83 | ˘ˋ    | Rough Breathing Grave                   |
| 8,84 | ˆˆˊ   | Smooth Breathing Circumflex             |
| 8,85 | ˆˆˋ   | Rough Breathing Circumflex              |
| 8,86 | ˆˊˆ   | Acute w/Iota Subscript                  |
| 8,87 | ˆˋˆ   | Grave w/Iota Subscript                  |
| 8,88 | ˆˆˆˊ  | Circumflex w/Iota Subscript             |
| 8,89 | ˆˆˆˋ  | Smooth Breathing w/Iota Subscript       |
| 8,90 | ˆˆˆˋ  | Rough Breathing w/Iota Subscript        |
| 8,91 | ˆˆˆˊˆ | Smooth Breathing Acute w/Iota Subscript |
| 8,92 | ˆˆˆˋˆ | Rough Breathing Acute w/Iota Subscript  |

|       |         |   |
|-------|---------|---|
| 8,93  | ḥ       | Smooth Breathing Grave w/Iota Subscript |
| 8,94  | ḥ̇      | Rough Breathing Grave w/Iota Subscript  |
| 8,95  | ḥ̂      | Smooth Breathing Circumflex w/Iota Sub  |
| 8,96  | ḥ̃      | Rough Breathing Circumflex w/Iota Sub   |
| 8,97  | Ḷ       | alpha Grave                             |
| 8,98  | Ḷ̂      | alpha Circumflex                        |
| 8,99  | Ḷ̇      | alpha w/Iota                            |
| 8,100 | Ḷ̈́     | alpha Acute w/Iota                      |
| 8,101 | Ḷ̈̂     | alpha Circumflex w/Iota                 |
| 8,102 | Ḹ      | alpha Smooth                            |
| 8,103 | Ḷ̇́     | alpha Smooth Acute                      |
| 8,104 | Ḹ̂     | alpha Smooth Grave                      |
| 8,105 | Ḹ̂̂    | alpha Smooth Circumflex                 |
| 8,106 | Ḹ̇     | alpha Smooth w/Iota                     |
| 8,107 | Ḹ̇́    | alpha Smooth Acute w/Iota               |
| 8,108 | Ḹ̈̂    | alpha Smooth Circumflex w/Iota          |
| 8,109 | Ḷ̇      | alpha Rough                             |
| 8,110 | Ḷ̇́     | alpha Rough Acute                       |
| 8,111 | Ḹ̂     | alpha Rough Grave                       |
| 8,112 | Ḹ̂̂    | alpha Rough Circumflex                  |
| 8,113 | Ḹ̇     | alpha Rough w/Iota                      |
| 8,114 | Ḹ̇́    | alpha Rough Acute w/Iota                |
| 8,115 | Ḹ̈̂    | alpha Rough Circumflex w/Iota           |
| 8,116 | ḹ      | epsilon Grave                           |
| 8,117 | ḹ̇     | epsilon Smooth                          |
| 8,118 | ḹ̇́    | epsilon Smooth Acute                    |
| 8,119 | ḹ̄     | epsilon Smooth Grave                    |
| 8,120 | ḹ̇     | epsilon Rough                           |
| 8,121 | ḹ̇́    | epsilon Rough Acute                     |
| 8,122 | ḹ̄̂    | epsilon Rough Grave                     |
| 8,123 | ḹ̂     | eta Grave                               |
| 8,124 | ḹ̂̂    | eta Circumflex                          |
| 8,125 | ḹ̇     | eta w/Iota                              |
| 8,126 | ḹ̈́    | eta Acute w/Iota                        |
| 8,127 | ḹ̈̂    | eta Grave w/Iota                        |
| 8,128 | ḹ̈̂̂   | eta Circumflex w/Iota                   |
| 8,129 | ḹ̄̇    | eta Smooth                              |
| 8,130 | ḹ̄̇́   | eta Smooth Acute                        |
| 8,131 | ḹ̄̄    | eta Smooth Grave                        |
| 8,132 | ḹ̄̈̂   | eta Smooth Circumflex                   |
| 8,133 | ḹ̄̈̂̂  | eta Smooth w/Iota                       |
| 8,134 | ḹ̄̈̂̇  | eta Smooth Acute w/Iota                 |
| 8,135 | ḹ̄̈̂̈̂ | eta Smooth Circumflex w/Iota            |
| 8,136 | ḹ̄̇    | eta Rough                               |
| 8,137 | ḹ̄̇́   | eta Rough Acute                         |
| 8,138 | ḹ̄̄̂   | eta Rough Grave                         |
| 8,139 | ḹ̄̄̂̂  | eta Rough Circumflex                    |
| 8,140 | ḹ̄̄̇   | eta Rough w/Iota                        |
| 8,141 | ḹ̄̄̇́  | eta Rough Acute w/Iota                  |

|       |   |                                |
|-------|---|--------------------------------|
| 8,142 | ῆ | eta Rough Circumflex w/Iota    |
| 8,143 | ì | iota Grave                     |
| 8,144 | î | iota Circumflex                |
| 8,145 | ï | iota Acute Diaeresis           |
| 8,146 | ï | iota Grave Diaeresis           |
| 8,147 | i | iota Smooth                    |
| 8,148 | ĩ | iota Smooth Acute              |
| 8,149 | ì | iota Smooth Grave              |
| 8,150 | î | iota Smooth Circumflex         |
| 8,151 | i | iota Rough                     |
| 8,152 | ĩ | iota Rough Acute               |
| 8,153 | ì | iota Rough Grave               |
| 8,154 | î | iota Rough Circumflex          |
| 8,155 | ò | omicron Grave                  |
| 8,156 | ó | omicron Smooth                 |
| 8,157 | õ | omicron Smooth Acute           |
| 8,158 | ö | omicron Smooth Grave           |
| 8,159 | ó | omicron Rough                  |
| 8,160 | õ | omicron Rough Acute            |
| 8,161 | ö | omicron Rough Grave            |
| 8,162 | ù | upsilon Grave                  |
| 8,163 | û | upsilon Circumflex             |
| 8,164 | Û | upsilon Acute Diaeresis        |
| 8,165 | Û | upsilon Grave Diaeresis        |
| 8,166 | ú | upsilon Smooth                 |
| 8,167 | Û | upsilon Smooth Acute           |
| 8,168 | ù | upsilon Smooth Grave           |
| 8,169 | û | upsilon Smooth Circumflex      |
| 8,170 | ú | upsilon Rough                  |
| 8,171 | Û | upsilon Rough Acute            |
| 8,172 | ù | upsilon Rough Grave            |
| 8,173 | û | upsilon Rough Circumflex       |
| 8,174 | ώ | omega Grave                    |
| 8,175 | ω | omega Circumflex               |
| 8,176 | ω | omega w/Iota                   |
| 8,177 | ώ | omega Acute w/Iota             |
| 8,178 | ώ | omega Grave w/Iota             |
| 8,179 | ώ | omega Circumflex w/Iota        |
| 8,180 | ω | omega Smooth                   |
| 8,181 | ώ | omega Smooth Acute             |
| 8,182 | ώ | omega Smooth Grave             |
| 8,183 | ώ | omega Smooth Circumflex        |
| 8,184 | ώ | omega Smooth w/Iota            |
| 8,185 | ώ | omega Smooth Acute w/Iota      |
| 8,186 | ώ | omega Smooth Circumflex w/Iota |
| 8,187 | ω | omega Rough                    |
| 8,188 | ώ | omega Rough Acute              |
| 8,189 | ώ | omega Rough Grave              |
| 8,190 | ώ | omega Rough Circumflex         |

|       |     |                               |
|-------|-----|-------------------------------|
| 8,191 | ϖ̇  | omega Rough w/Iota            |
| 8,192 | ϖ̇́ | omega Rough Acute w/Iota      |
| 8,193 | ϖ̇̂ | omega Rough Circumflex w/Iota |
| 8,194 | ´   | High Prime                    |
| 8,195 | ,   | Low Prime                     |
| 8,196 | Ϛ   | Stigma                        |
| 8,197 | Ϝ   | Digamma                       |
| 8,198 | Ϙ   | Koppa                         |
| 8,199 | ϝ   | Sampi                         |
| 8,200 | Α   | ALPHA High Prime              |
| 8,201 | Ε   | EPSILON High Prime            |
| 8,202 | Η   | ETA High Prime                |
| 8,203 | Ι   | IOTA High Prime               |
| 8,204 | Ο   | OMICRON High Prime            |
| 8,205 | Υ   | UPSILON High Prime            |
| 8,206 | Ω   | OMEGA High Prime              |

# Hebrew

Charset: 9

Contains: Hebrew characters

|      |    |  |
|------|----|--|
| 9,0  | א  | Hebrew Aleph                             |
| 9,1  | ב  | Hebrew Veth                              |
| 9,2  | ג  | Hebrew Gimel                             |
| 9,3  | ד  | Hebrew Daleth                            |
| 9,4  | ה  | Hebrew Heh                               |
| 9,5  | ו  | Hebrew Vav                               |
| 9,6  | ז  | Hebrew Zayin                             |
| 9,7  | ח  | Hebrew Cheth                             |
| 9,8  | ט  | Hebrew Teth                              |
| 9,9  | י  | Hebrew Yod                               |
| 9,10 | ך  | Hebrew Chaph (end of words)              |
| 9,11 | כ  | Hebrew Chaph                             |
| 9,12 | ל  | Hebrew Lamed                             |
| 9,13 | ם  | Hebrew Mem (end of words)                |
| 9,14 | מ  | Hebrew Mem                               |
| 9,15 | ן  | Hebrew Nun (end of words)                |
| 9,16 | נ  | Hebrew Nun                               |
| 9,17 | ס  | Hebrew Samekh                            |
| 9,18 | ע  | Hebrew Ayin                              |
| 9,19 | ף  | Hebrew Feh (end of words)                |
| 9,20 | פ  | Hebrew Feh                               |
| 9,21 | צ  | Hebrew Tsadi (end of words)              |
| 9,22 | צ  | Hebrew Tsadi                             |
| 9,23 | ק  | Hebrew Koph                              |
| 9,24 | ר  | Hebrew Resh                              |
| 9,25 | ש  | Hebrew Shin                              |
| 9,26 | ת  | Hebrew Sin                               |
| 9,27 | -  | Hebrew Thav                              |
| 9,28 | וּ | Hebrew Beth                              |
| 9,29 | ׃  | Hebrew Kaph                              |
| 9,30 | ׄ  | Hebrew Peh                               |
| 9,31 | ׁ  | Hebrew vowel sign Hireq                  |
| 9,32 | ׂ  | Hebrew vowel sign Sereh                  |
| 9,33 | ׃  | Hebrew vowel sign Segol                  |
| 9,34 | ׄ  | Hebrew vowel sign Qubbus                 |
| 9,35 | ׅ  | Hebrew vowel sign Qamas                  |
| 9,36 | ׆  | Hebrew vowel sign Pathah                 |
| 9,37 | ׇ  | Hebrew vowel sign Shewa                  |
| 9,38 | ׈  | Hebrew vowel digraph Pathah              |
| 9,39 | ׉  | Hebrew vowel digraph Segol               |
| 9,40 | ׊  | Hebrew vowel digraph Qamas               |
| 9,41 | ׋  | Hebrew vowel digraph Holem (superscript) |
| 9,42 | ׌  | Hebrew vowel digraph Shureq (middle)     |
| 9,43 | ׍  | Hebrew comma                             |

## Cyrillic

Charset: 10

Contains: Full cyrillic character set for ancient and modern applications.

|       |   |                 |
|-------|---|-----------------|
| 10,0  | А | Russian A       |
| 10,1  | а | Russian a       |
| 10,2  | Б | Russian BE      |
| 10,3  | б | Russian be      |
| 10,4  | В | Russian VE      |
| 10,5  | в | Russian ve      |
| 10,6  | Г | Russian GHE     |
| 10,7  | г | Russian ghe     |
| 10,8  | Д | Russian DE      |
| 10,9  | д | Russian de      |
| 10,10 | Е | Russian E       |
| 10,11 | е | Russian e       |
| 10,12 | Ё | Russian YO      |
| 10,13 | ё | Russian yo      |
| 10,14 | Ж | Russian ZHE     |
| 10,15 | ж | Russian zhe     |
| 10,16 | З | Russian ZE      |
| 10,17 | з | Russian ze      |
| 10,18 | И | Russian I       |
| 10,19 | и | Russian i       |
| 10,20 | Й | Russian SHORT I |
| 10,21 | й | Russian short i |
| 10,22 | К | Russian KA      |
| 10,23 | к | Russian ka      |
| 10,24 | Л | Russian EL      |
| 10,25 | л | Russian el      |
| 10,26 | М | Russian EM      |
| 10,27 | м | Russian em      |
| 10,28 | Н | Russian EN      |
| 10,29 | н | Russian en      |
| 10,30 | О | Russian O       |
| 10,31 | о | Russian o       |
| 10,32 | П | Russian PE      |
| 10,33 | п | Russian pe      |
| 10,34 | Р | Russian ER      |
| 10,35 | р | Russian er      |
| 10,36 | С | Russian ES      |
| 10,37 | с | Russian es      |
| 10,38 | Т | Russian TE      |
| 10,39 | т | Russian te      |
| 10,40 | У | Russian U       |
| 10,41 | у | Russian u       |
| 10,42 | Ф | Russian EF      |
| 10,43 | ф | Russian ef      |



|       |   |                            |
|-------|---|----------------------------|
| 10,44 | X | Russian HA                 |
| 10,45 | x | Russian ha                 |
| 10,46 | Ц | Russian TSE                |
| 10,47 | ц | Russian tse                |
| 10,48 | Ч | Russian CHE                |
| 10,49 | ч | Russian che                |
| 10,50 | Ш | Russian SHA                |
| 10,51 | ш | Russian sha                |
| 10,52 | Щ | Russian SHCHA              |
| 10,53 | щ | Russian shcha              |
| 10,54 | Ъ | Russian ER (HARD SIGN)     |
| 10,55 | ъ | Russian er (hard sign)     |
| 10,56 | Ы | Russian ERY                |
| 10,57 | ы | Russian ery                |
| 10,58 | Ь | Russian SOFT SIGN          |
| 10,59 | ь | Russian soft sign          |
| 10,60 | Э | Russian REVERSE E          |
| 10,61 | э | Russian reverse e          |
| 10,62 | Ю | Russian YU                 |
| 10,63 | ю | Russian yu                 |
| 10,64 | Я | Russian YA                 |
| 10,65 | я | Russian ya                 |
| 10,66 | Ґ | Ukrainian HARD G           |
| 10,67 | г | Ukrainian hard g           |
| 10,68 | Ђ | Serbian SOFT DJ            |
| 10,69 | ђ | Serbian soft dj            |
| 10,70 | Ѓ | Macedonian SOFT DJ         |
| 10,71 | ѓ | Macedonian soft dj         |
| 10,72 | Є | Ukrainian YE               |
| 10,73 | є | Ukrainian ye               |
| 10,74 | Ѕ | Macedonian ZELO            |
| 10,75 | ѕ | Macedonian zelo            |
| 10,76 | І | Ukrainian I                |
| 10,77 | і | Ukrainian i                |
| 10,78 | Ї | Ukrainian I WITH TWO DOTS  |
| 10,79 | ї | Ukrainian i with two dots  |
| 10,80 | Ј | Serbian, Macedonian JE     |
| 10,81 | ј | Serbian, Macedonian je     |
| 10,82 | Љ | Serbian, Macedonian SOFT L |
| 10,83 | љ | Serbian, Macedonian soft l |
| 10,84 | Њ | Serbian, Macedonian SOFT N |
| 10,85 | њ | Serbian, Macedonian soft n |
| 10,86 | Ћ | Serbian SOFT T             |
| 10,87 | ћ | Serbian soft t             |
| 10,88 | Ќ | Macedonian SOFT K          |
| 10,89 | ќ | Macedonian soft k          |
| 10,90 | Ў | Byelorussian SHORT U       |
| 10,91 | ў | Byelorussian short u       |
| 10,92 | Џ | Serbian HARD DJ            |

|        |   |                         |
|--------|---|-------------------------|
| 10,93  | Ѡ | Serbian hard dj         |
| 10,94  | Ѣ | Old Russian YAT         |
| 10,95  | ѣ | Old Russian yat         |
| 10,96  | Ѧ | Old Russian FITA        |
| 10,97  | ѧ | Old Russian fita        |
| 10,98  | Ѩ | Old Russian IZHITSA     |
| 10,99  | ѩ | Old Russian izhitsa     |
| 10,100 | Ѫ | Old Bulgarian YUS       |
| 10,101 | ѫ | Old Bulgarian yus       |
| 10,102 | Ѭ | Old Slovanic Z          |
| 10,103 | ѭ | Old Slovanic z          |
| 10,104 | Ѯ | Old Slovanic SHA        |
| 10,105 | ѯ | Old Slovanic sha        |
| 10,106 | Ѱ | Old Slovanic I ligature |
| 10,107 | ѱ | Old Slovanic i ligature |
| 10,108 | Ѳ | Old Slovanic EH         |
| 10,109 | ѳ | Old Slovanic eh         |
| 10,110 | Ѵ | Russian A acute         |
| 10,111 | ѵ | Russian a acute         |
| 10,112 | Ѷ | Russian E acute         |
| 10,113 | ѷ | Russian e acute         |
| 10,114 | Ѹ | Russian I acute         |
| 10,115 | ѹ | Russian i acute         |
| 10,116 | Ѻ | Russian O acute         |
| 10,117 | ѻ | Russian o acute         |
| 10,118 | Ѽ | Russian U acute         |
| 10,119 | ѽ | Russian u acute         |
| 10,120 | Ѿ | Russian ERY acute       |
| 10,121 | ѿ | Russian ery acute       |
| 10,122 | Ѡ | Russian REVERSE E acute |
| 10,123 | ѡ | Russian reverse e acute |
| 10,124 | Ѣ | Russian YU acute        |
| 10,125 | ѣ | Russian yu acute        |
| 10,126 | Ѥ | Russian YA acute        |
| 10,127 | ѥ | Russian ya acute        |
| 10,128 | Ѧ | Russian A grave         |
| 10,129 | ѧ | Russian a grave         |
| 10,130 | Ѩ | Russian E grave         |
| 10,131 | ѩ | Russian e grave         |
| 10,132 | Ѫ | Russian YO grave        |
| 10,133 | ѫ | Russian yo grave        |
| 10,134 | Ѭ | Russian I grave         |
| 10,135 | ѭ | Russian i grave         |
| 10,136 | Ѯ | Russian O grave         |
| 10,137 | ѯ | Russian o grave         |
| 10,138 | Ѱ | Russian U grave         |
| 10,139 | ѱ | Russian u grave         |
| 10,140 | Ѳ | Russian ERY grave       |
| 10,141 | ѳ | Russian ery grave       |

|        |   |                         |
|--------|---|-------------------------|
| 10,142 | Э | Russian REVERSE E grave |
| 10,143 | è | Russian reverse e grave |
| 10,144 | Ю | Russian YU grave        |
| 10,145 | ю | Russian yu grave        |
| 10,146 | Я | Russian YA grave        |
| 10,147 | я | Russian ya grave        |
| 10,148 | ´ | Acute                   |
| 10,149 | ` | Grave                   |

## Japanese Kana

Charset: 11

Contains: Characters for Hiragana or Katakana (the type is determined by the typeface).

|       |   |                                  |
|-------|---|----------------------------------|
| 11,0  | ア | Japanese Phonetic small a        |
| 11,1  | イ | Japanese Phonetic small i        |
| 11,2  | ウ | Japanese Phonetic small u        |
| 11,3  | エ | Japanese Phonetic small e        |
| 11,4  | オ | Japanese Phonetic small o        |
| 11,5  | ツ | Japanese Phonetic small tu (tsu) |
| 11,6  | ヤ | Japanese Phonetic small ya       |
| 11,7  | ユ | Japanese Phonetic small yu       |
| 11,8  | ヨ | Japanese Phonetic small yo       |
| 11,9  | ヴ | Japanese Phonetic small vu       |
| 11,10 | カ | Japanese Phonetic small ka       |
| 11,11 | ケ | Japanese Phonetic small ke       |
| 11,12 | ア | Japanese Phonetic a              |
| 11,13 | イ | Japanese Phonetic i              |
| 11,14 | ウ | Japanese Phonetic u              |
| 11,15 | エ | Japanese Phonetic e              |
| 11,16 | オ | Japanese Phonetic o              |
| 11,17 | カ | Japanese Phonetic ka             |
| 11,18 | キ | Japanese Phonetic ki             |
| 11,19 | ク | Japanese Phonetic ku             |
| 11,20 | ケ | Japanese Phonetic ke             |
| 11,21 | コ | Japanese Phonetic ko             |
| 11,22 | ガ | Japanese Phonetic ga             |
| 11,23 | ギ | Japanese Phonetic gi             |
| 11,24 | グ | Japanese Phonetic gu             |
| 11,25 | ゲ | Japanese Phonetic ge             |
| 11,26 | ゴ | Japanese Phonetic go             |
| 11,27 | サ | Japanese Phonetic sa             |
| 11,28 | シ | Japanese Phonetic si (shi)       |
| 11,29 | ス | Japanese Phonetic su             |
| 11,30 | セ | Japanese Phonetic se             |
| 11,31 | ソ | Japanese Phonetic so             |
| 11,32 | ザ | Japanese Phonetic za             |
| 11,33 | ジ | Japanese Phonetic zi (ji)        |
| 11,34 | ズ | Japanese Phonetic zu             |
| 11,35 | ゼ | Japanese Phonetic ze             |
| 11,36 | ゾ | Japanese Phonetic zo             |
| 11,37 | タ | Japanese Phonetic ta             |
| 11,38 | チ | Japanese Phonetic ti (chi)       |
| 11,39 | ツ | Japanese Phonetic tu (tsu)       |
| 11,40 | テ | Japanese Phonetic te             |
| 11,41 | ト | Japanese Phonetic to             |
| 11,42 | ダ | Japanese Phonetic da             |

|       |   |                                |
|-------|---|--------------------------------|
| 11,43 | ヂ | Japanese Phonetic di (ji)      |
| 11,44 | ヅ | Japanese Phonetic du (zu)      |
| 11,45 | デ | Japanese Phonetic de           |
| 11,46 | ド | Japanese Phonetic do           |
| 11,47 | ナ | Japanese Phonetic na           |
| 11,48 | ニ | Japanese Phonetic ni           |
| 11,49 | ヌ | Japanese Phonetic nu           |
| 11,50 | ネ | Japanese Phonetic ne           |
| 11,51 | ノ | Japanese Phonetic no           |
| 11,52 | ハ | Japanese Phonetic ha           |
| 11,53 | ヒ | Japanese Phonetic hi           |
| 11,54 | フ | Japanese Phonetic hu (fu)      |
| 11,55 | ヘ | Japanese Phonetic he           |
| 11,56 | ホ | Japanese Phonetic ho           |
| 11,57 | バ | Japanese Phonetic ba           |
| 11,58 | ビ | Japanese Phonetic bi           |
| 11,59 | ブ | Japanese Phonetic bu           |
| 11,60 | ベ | Japanese Phonetic be           |
| 11,61 | ボ | Japanese Phonetic bo           |
| 11,62 | パ | Japanese Phonetic pa           |
| 11,63 | ピ | Japanese Phonetic pi           |
| 11,64 | プ | Japanese Phonetic pu           |
| 11,65 | ペ | Japanese Phonetic pe           |
| 11,66 | ポ | Japanese Phonetic po           |
| 11,67 | マ | Japanese Phonetic ma           |
| 11,68 | ミ | Japanese Phonetic mi           |
| 11,69 | ム | Japanese Phonetic mu           |
| 11,70 | メ | Japanese Phonetic me           |
| 11,71 | モ | Japanese Phonetic mo           |
| 11,72 | ヤ | Japanese Phonetic ya           |
| 11,73 | ユ | Japanese Phonetic yu           |
| 11,74 | ヨ | Japanese Phonetic yo           |
| 11,75 | ラ | Japanese Phonetic ra           |
| 11,76 | リ | Japanese Phonetic ri           |
| 11,77 | ル | Japanese Phonetic ru           |
| 11,78 | レ | Japanese Phonetic re           |
| 11,79 | ロ | Japanese Phonetic ro           |
| 11,80 | ワ | Japanese Phonetic wa           |
| 11,81 | ヲ | Japanese Phonetic wo           |
| 11,82 | ン | Japanese Phonetic n            |
| 11,83 | ( | Left Lenticular White Bracket  |
| 11,84 | ) | Right Lenticular White Bracket |
| 11,85 | [ | Left Lenticular Black Bracket  |
| 11,86 | ] | Right Lenticular Black Bracket |
| 11,87 | 「 | Left Quote                     |
| 11,88 | 」 | Right Quote                    |
| 11,89 | 「 | Left White Quote               |
| 11,90 | 」 | Right White Quote              |
| 11,91 | . | Kana Period                    |

|        |   |                         |
|--------|---|-------------------------|
| 11,92  | 。 | Kana White Period       |
| 11,93  | 、 | Kana Comma              |
| 11,94  |   | Repeat Kana             |
| 11,95  |   | Repeat Kana w/Daku-on   |
| 11,96  |   | Ditto                   |
| 11,97  | ー | Long Vowel              |
| 11,98  | ゝ | Daku-ten                |
| 11,99  | ゜ | Handaku-ten             |
| 11,100 | ァ | Katakana small a        |
| 11,101 | ィ | Katakana small i        |
| 11,102 | ゥ | Katakana small u        |
| 11,103 | ェ | Katakana small e        |
| 11,104 | ォ | Katakana small o        |
| 11,105 | ツ | Katakana small tu (tsu) |
| 11,106 | ャ | Katakana small ya       |
| 11,107 | ュ | Katakana small yu       |
| 11,108 | ョ | Katakana small yo       |
| 11,109 | ヴ | Hiragana small vu       |
| 11,110 | カ | Katakana small ka       |
| 11,111 | ケ | Katakana small ke       |
| 11,112 | ア | Katakana a              |
| 11,113 | イ | Katakana i              |
| 11,114 | ウ | Katakana u              |
| 11,115 | エ | Katakana e              |
| 11,116 | オ | Katakana o              |
| 11,117 | カ | Katakana ka             |
| 11,118 | キ | Katakana ki             |
| 11,119 | ク | Katakana ku             |
| 11,120 | ケ | Katakana ke             |
| 11,121 | コ | Katakana ko             |
| 11,122 | ガ | Katakana ga             |
| 11,123 | ギ | Katakana gi             |
| 11,124 | グ | Katakana gu             |
| 11,125 | ゲ | Katakana ge             |
| 11,126 | ゴ | Katakana go             |
| 11,127 | サ | Katakana sa             |
| 11,128 | シ | Katakana si (shi)       |
| 11,129 | ス | Katakana su             |
| 11,130 | セ | Katakana se             |
| 11,131 | ソ | Katakana so             |
| 11,132 | ザ | Katakana za             |
| 11,133 | ジ | Katakana zi (ji)        |
| 11,134 | ズ | Katakana zu             |
| 11,135 | ゼ | Katakana ze             |
| 11,136 | ゾ | Katakana zo             |
| 11,137 | タ | Katakana ta             |
| 11,138 | チ | Katakana ti (chi)       |
| 11,139 | ツ | Katakana tu (tsu)       |
| 11,140 | テ | Katakana te             |

|        |   |                           |
|--------|---|---------------------------|
| 11,141 | ト | Katakana to               |
| 11,142 | ダ | Katakana da               |
| 11,143 | ヂ | Katakana di (ji)          |
| 11,144 | ヅ | Katakana du (zu)          |
| 11,145 | デ | Katakana de               |
| 11,146 | ド | Katakana do               |
| 11,147 | ナ | Katakana na               |
| 11,148 | ニ | Katakana ni               |
| 11,149 | ヌ | Katakana nu               |
| 11,150 | ネ | Katakana ne               |
| 11,151 | ノ | Katakana no               |
| 11,152 | ハ | Katakana ha               |
| 11,153 | ヒ | Katakana hi               |
| 11,154 | フ | Katakana hu (fu)          |
| 11,155 | ヘ | Katakana he               |
| 11,156 | ホ | Katakana ho               |
| 11,157 | バ | Katakana ba               |
| 11,158 | ビ | Katakana bi               |
| 11,159 | ブ | Katakana bu               |
| 11,160 | ベ | Katakana be               |
| 11,161 | ボ | Katakana bo               |
| 11,162 | パ | Katakana pa               |
| 11,163 | ピ | Katakana pi               |
| 11,164 | プ | Katakana pu               |
| 11,165 | ペ | Katakana pe               |
| 11,166 | ポ | Katakana po               |
| 11,167 | マ | Katakana ma               |
| 11,168 | ミ | Katakana mi               |
| 11,169 | ム | Katakana mu               |
| 11,170 | メ | Katakana me               |
| 11,171 | モ | Katakana mo               |
| 11,172 | ヤ | Katakana ya               |
| 11,173 | ユ | Katakana yu               |
| 11,174 | ヨ | Katakana yo               |
| 11,175 | ラ | Katakana ra               |
| 11,176 | リ | Katakana ri               |
| 11,177 | ル | Katakana ru               |
| 11,178 | レ | Katakana re               |
| 11,179 | ロ | Katakana ro               |
| 11,180 | ワ | Katakana wa               |
| 11,181 | ヲ | Katakana wo               |
| 11,182 | ン | Katakana n                |
| 11,183 |   | Repeat Katakana           |
| 11,184 |   | Repeat Katakana w/Daku-on |

## User

Charset: 12

Contains: 255 user-definable characters.